

Flyers Creek Wind Farm
Preferred Project Report
May 2013

The Preferred Project Report

The proponent is seeking development consent for the construction and operation of the Flyers Creek wind energy facility and associated infrastructure in the Errowanbang district south of Orange, NSW.

After a thorough review of the submissions received, the proponent submits this Preferred Project report for the consideration of the NSW Department of Planning & Infrastructure.

There are two major changes to the project in response to the submissions received. They are:

- 1. Wind turbine #17 has been deleted from the project along with its electrical cabling and track access. The deletion of this turbine was in response to several submissions received, including those from residences numbered #77 and #78 in the Environment Impact Assessment. Deletion of this turbine substantially reduces the visual impact of the project from the backyards of these two residences. The view of the wind farm from their backyards will not include any wind turbines for a view angle of about 90 degrees looking due west. In addition, the construction traffic, which would have occurred close to their homes, will no longer be necessary.
- 2. The proposed route of the 132kV transmission line has been moved further west as a result of the submission by Newcrest Mining and further consultation with them. There is no discernible change to the community's amenity impact from this change as both the former, and revised, section of the transmission line route are on Cadia's property with no nearby residences.

The ecological specialist engaged for this project, Kevin Mills & Associates, has conducted a preliminary review of the revised power line route and their assessment is attached to this report. The proponent is confident that there will be no native vegetation or heritage impacts along this preferred line route; however, should the project be approved, a heritage and native flora survey will be conducted of the new line route in the Preferred Project Report as documented in the revised Statement of Commitments in the Appendix.

The heritage specialist engaged for this project, Austral Archaeology, has assessed the likelihood of significant cultural heritage items being located on the revised transmission line route. Their assessment is attached to this report. They conclude that the potential for heritage sites on the new line route to be "low". Should the FCWF receive planning approval, an on-site cultural heritage survey of the new line route will be conducted. In addition, it is worth noting that the proposed power line

route is relatively 'unconstrained' such that the line route can easily be adjusted to avoid any heritage sites in the unlikely event one is found during the survey.

The original Environment Assessment utilised the GE 2.5MW wind turbine as the "indicative" wind turbine for the project. It was clearly stated in the EA that this may not be the wind turbine selected for the project, and that a larger (or smaller) electrical generation capacity turbine might be selected. It was also stated several times in the EA that whichever turbine is selected, the wind turbine will have a total height (to the blade tip) of no more than 150 metres.

At the time the EA was being prepared, the GE wind turbine was a relatively new entrant to the market and it's technical characteristics were very well suited to the wind resource at Flyers Creek. These factors resulted in the GE turbine being selected as the indicative wind turbine for the project. However, in the meantime, other new turbine models have come onto the market which are also strong candidates---most of which have larger electrical nameplate capacities.

As documented in Sections 3(a), 5(a), 5(p) and 5(y) of the Response to Submissions, the amenity impact of a wind turbine is independent of its electrical generating capacity. It is not possible for an observer to know what the electrical generating capacity of a wind turbine is by looking at its size, or listening to it. For example, a 2.5MW turbine can be taller, and louder, than a 3.0MW wind turbine. Therefore, from a planning assessment perspective, the electrical generating capacity of a wind turbine is not really a relevant consideration.

The proponent would like to clarify that the electrical generation capacity of the Flyers Creek Wind Farm wind turbine will be between 2.0 and 3.5MW. However, no matter which turbine is selected, the height of the wind turbine will be no more than 150 metres, as originally specified in the EA. Should the GE wind turbine not be selected, a new noise analysis will be performed for the selected wind turbine and submitted to the Department of Planning & Infrastructure documenting full compliance with all of the noise requirements contained in the Director General's Requirements (DGRs).

The Preferred Project documentation is as follows and is attached as an Appendix to this report.

- Letter report from Austral Archaeology concerning the revised power line route
- Letter report from Kevin Mills & Associates concerning the revised power line route
- Revised Figure 1.4b from the EA, Revised Wind Farm Layout on mapping
- Revised Figure 1.5b from the EA, Revised Wind Farm Layout on aerial photograph and contours
- Revised Figure 1.6a from the EA, Revised Complete Project Overview
- Revised Figure 4.1b from the EA, Revised Property Map
- Revised Figure 4.2b from the EA, Revised 132kV Electrical connection route property map
- Revised Table 4.1a from the EA, Revised property details for land on which the wind farm is located
- Revised Table 4.2a from the EA, Revised Property details for land on which the 132 kV transmission line for grid connection is located
- Revised Statement of Commitments (EA Chapter 19)

Flyers Creek Wind Farm
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Appendix



31 January 2012

Mr Jonathan Upson Senior Development Manager Infigen Energy Level 23, HWT Tower, 40 City Road Southbank, VIC 3006

By email Dear Jonathan

Re: Flyers Creek Wind Farm - Modification of Transmission Line Route

Regarding your request for an assessment of the modified 132kV Transmission Line route for the Flyers Creek Wind Farm we would like to advise you of the following.

Our original assessment, Aboriginal Archaeological & Cultural Heritage Assessment Flyers Creek Wind Farm 2010 located no Aboriginal sites or objects within the area of impact of a proposed route and a proposed alternate route of the 132kV Transmission Line. It is further understood that the newly proposed route traverses an area immediately to the west of the previous study area in its northward progress.

Our detailed predictive modeling revealed a low to moderate likelihood of Aboriginal archaeological sites to be present within the survey envelope that contained the 132kV Transmission line route and this model was confirmed by our archaeological survey. Given the great similarity of landforms and topography, the newly proposed route is likely to conform to our original results. Briefly, there is a low to moderate potential for Aboriginal archaeological finds to be located within the newly proposed route. In particular, artefact scatters and scarred trees have a moderate likelihood of being present in areas of relatively undisturbed land. Our survey of the similar landforms with a similar land use history immediately to the east of the newly proposed route revealed a considerable degree of disturbance and a lack of archaeological material.

Although the disturbance of the area and the lack of sites or objects found nearby indicates that potential for sites is low, it is recommended that an additional Aboriginal archaeological and cultural heritage assessment be undertaken to further test the predictive model. In any case, an Aboriginal archaeological and cultural heritage assessment would recommend appropriate strategies to avoid harm to any sites that may be located during investigation.

Please do not hesitate to contact me if you wish to discuss any aspect of this submission.

Yours sincerely,

Justin McCarthy Managing Director

Austral Archaeology Pty Ltd

m: 0418 843 773

KMA

KEVIN MILLS & ASSOCIATES ECOLOGICAL AND ENVIRONMENTAL CONSULTANTS

ABN 346 816 238 93

Tel: (02) 4236 0620 12 Hyam Place Mobile: 0419 248 094 Jamberoo NSW 2533

Jonathan Upson
Infigen Energy
By email - jonathan.upson@infigenenergy.com

19 December 2012

Dear Jonathan

Flyers Creek Wind Farm – Modification of Transmission Line Route

Further to your request for an assessment of the proposed modification in the Flyers Creek Wind farm transmission line around Cadia Mine, we are pleased to provide you with the following proposal for your consideration.

As you are aware, we investigated the original route of the line in 2011; that route was not far to the east of the currently proposed route.

The country traversed along that original route was grazing land with very scattered trees. Similar land is encountered along the modified route. We see from the aerial photograph showing the new route that trees are very sparse along the route; indeed almost the entire route is treeless. Observations previously in that general area indicated that the ground cover was dominated by exotic pasture species.

Some of the trees in the area may be remnants of the White Box - Yellow Box - Blakely's Red Gum listed endangered ecological community, although the condition of the community would be very poor. There is unlikely to be significant habitat for listed threatened species along the new route.

The only likely feature of importance along the new route is the presence of old trees that may provide habitat (hollows) for some native fauna. It is therefore recommended that a survey be carried out prior to the construction of the line to identify any trees that should be avoided, which should be easily accomplished due to the sparse number of trees along the modified route.

Please do not hesitate to contact me if we can be of further assistance.

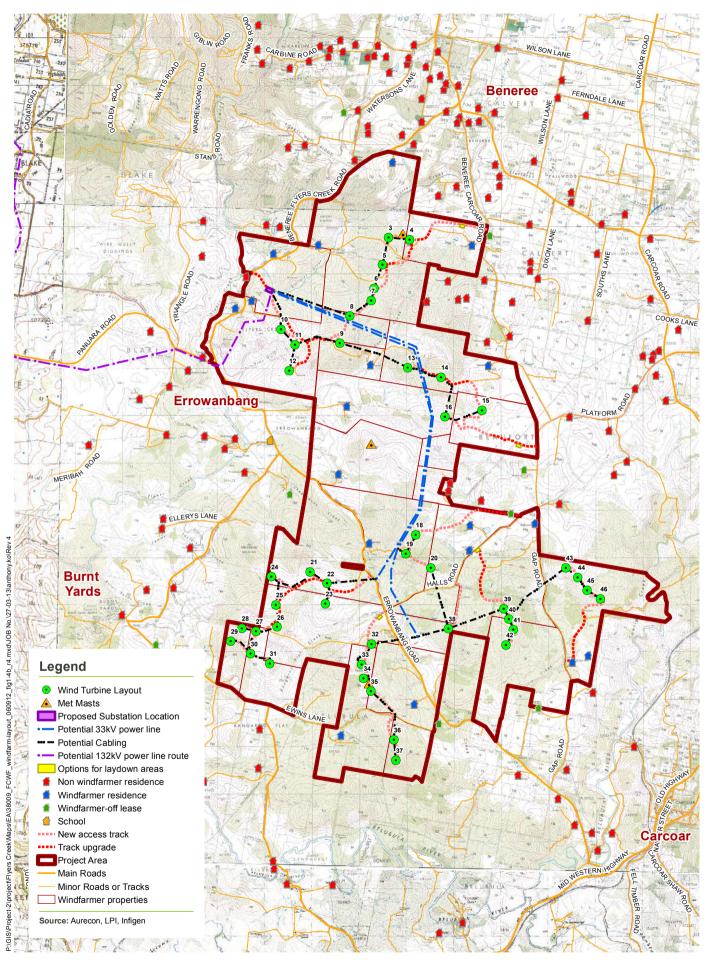
Yours sincerely

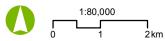
Dr Kevin Mills | Managing Director | Kevin Mills & Associates | ABN 346 816 238 93 12 Hyam Place | Jamberoo NSW 2533

Tel. (02) 4236 0620 Mob. 0429 848 094

Kevin Mills & Associates Pty Ltd ACN 003 441 610 as trustee for Kevin Mills & Associates Trust

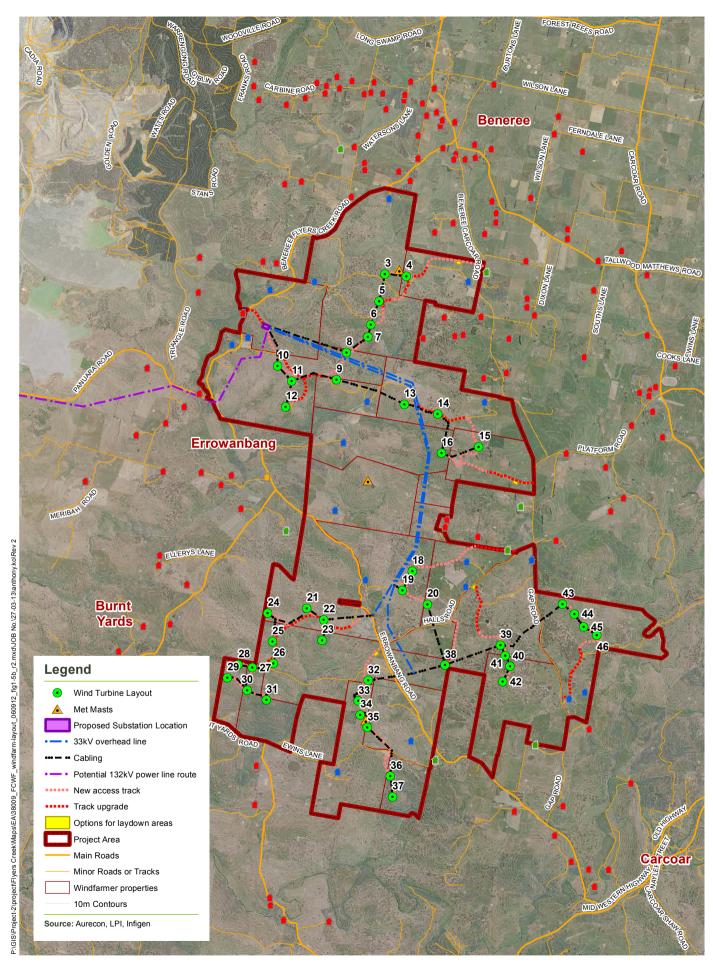


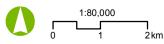




Projection: GDA 1994 MGA Zone 55

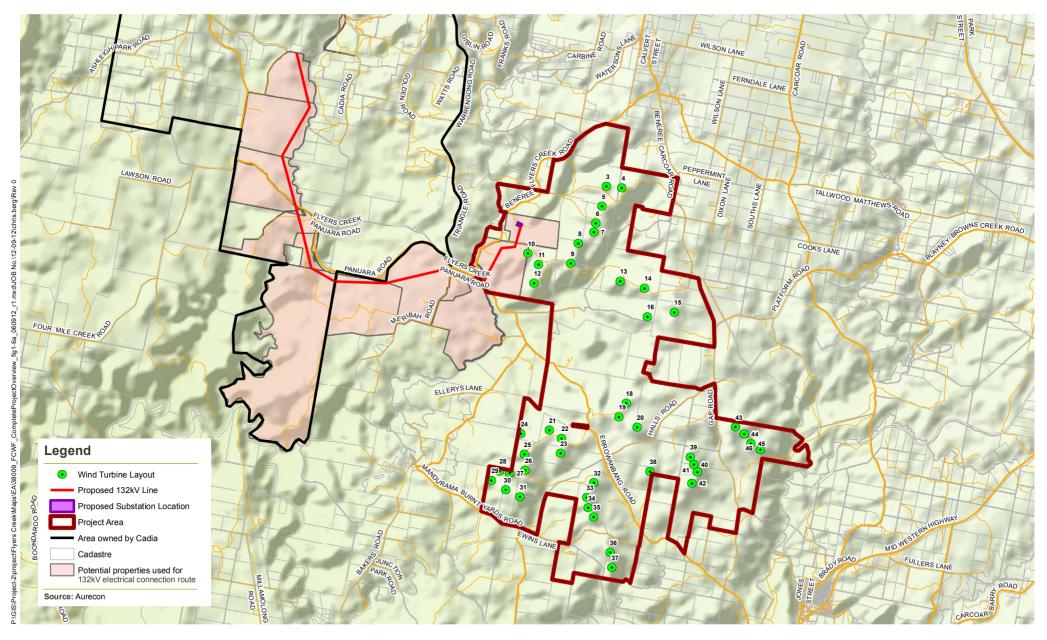


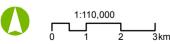




Flyers Creek Wind Farm Environmental Assessment

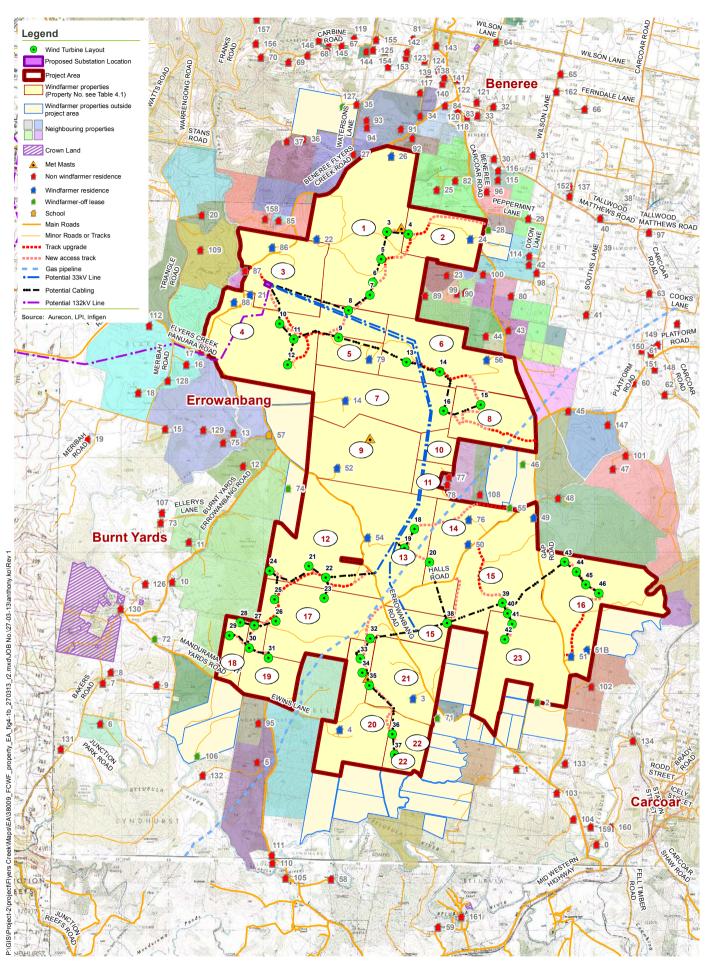


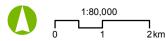




Projection: GDA 1994 MGA Zone 55 FIGURE 1.6a: Revised Complete Project Overview

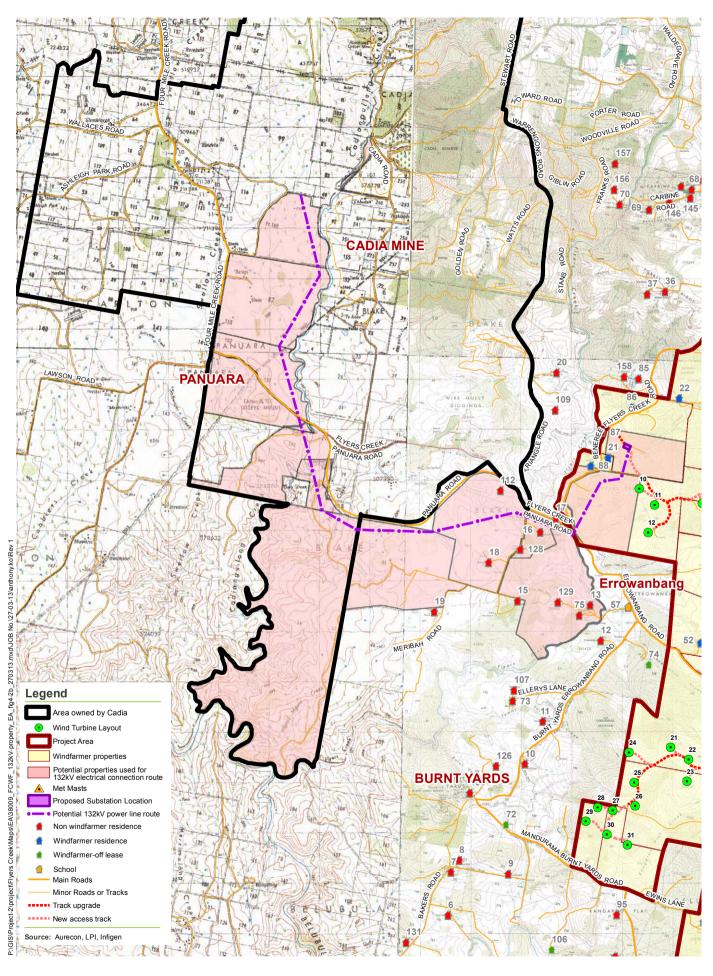






Projection: GDA 1994 MGA Zone 55 FIGURE 4.1b: Revised Property Map





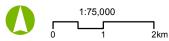


Table 4.1a - Revised property details for land on which the wind farm is located

Property	Land Title	e Details	Turbine	Met	Wind farm
or Landowners	Lot	DP	Numbers	Mast	Ancillary Items
Wind Farm Area 1	12	106320 4			
	6	550053	3	Northern	New track, track upgrade, 33kV UG Cabling
	76	750358			
	53	750358	5, 6, 7		New track, track upgrade, 33kV UG Cabling
	50	750358			
Wind Farm Area 2	41	750367			UG cabling and possible track
	28	750367	4		Site office, New track, track upgrade, 33 kV UG Cabling
Wind Farm Area 3	8	750358			Substation, 132 kV Line, 33kV Line, 33 kV UG Cabling, track upgrade
	52	750358			Nil
Wind Farm Area 4	62	750358	8		New track, 33 kV UG Cabling, 33kV Line
	181	750358	10, 11, 12		Track upgrade, 33 kV UG Cabling, New Track
	180	750358			132 kV line, New track
	10	750358			New track
Wind Farm Area 5	63	750358	9		33 kV UG Cabling
Wind Farm Area 6	7	750358	13, 14		New track, track upgrade
	66	750358			New track, track upgrade
	65	750358			
Wind Farm Area 7	68	750358	16		33 kV UG Cabling, 33 kV Line, New track
Wind Farm Area 8	67	750358	15		New track and track upgrade, 33 kV UG Cabling
Wind Farm Area 9	69	750358		Central	Central
Wind Farm Area 10	5	103123 8			33 kV OH Line
Wind Farm Area 11	6	103123 8			33 kV OH Line
Wind Farm Area 12	163	750358			
	427	106700 9	21, 22, 24		New track, track upgrade, 33 k\ UG Cabling
	425	106700 9			
	426	106700 9			
Wind Farm Area 13	162	750358	18, 19		New track, 33 kV Line
Wind Farm Area 14	161	750358	20		New track, 33 kV UG Cabling, 33 kV Line

Property	Land Titl	e Details	Turbine	Met	Wind farm
Wind Farm Area 15	208	750359	38		New track, 33 kV UG Cabling, 33 kV Line
	72	750359			Access track to T38
	66	750359	39, 40		Access tracks and UG cabling
	1	108916 2			
	2	108916 2			
	1	108914 7			
	2	108914 7			
	3	108914 7			33 kV UG Cabling
	96	750358			New track
	95	750358			New track
	94	750358			Track upgrade
Wind Farm Area 16	75	750358	43 to 46		New track, track upgrade, 33 kV UG cabling
Wind Farm Area 17	1	396680	23, 25		New track, track upgrade, 33 kV UG cabling
	1	107996 3	26, 31, 32		New track, track upgrade, 33 kV UG cabling
Wind Farm Area 18	201	750359	28, 29		New track, 33 kV UG cabling
Wind Farm Area 19	202	750359	27, 30		New track, 33 kV UG cabling
	204	750359			
Wind Farm Area 20	206	750359	33, 34	Souther n	New track, 33 kV UG cabling
	2	519767			
	120	750359			
	1	519767			
	84	750359			New track
Wind Farm Area 21	533	749105	35		New track, 33 kV UG cabling
	1	107127 0			Nil
Wind Farm Area 22	83	750359	36, 37		New track, 33 kV UG cabling
Wind Farm Area 23	78	750359	41, 42		New track, 33 kV UG cabling
	62	750359			Nil
	1	927568			Nil

Property or	Land Tit	le Details	Length of	Other facility
Landowners	Lot	DP	transmission line	
Wind Farm area 3	8	750538	470 m	substation
Wind Farm area 4	180	750538	1,677 m	
Transmission Line area 1	51	39600	395 m	
	52	39600	20 m	
Transmission Line area 2	20	1038104	2,441 m	
	43	750362	1,486 m	
Transmission Line area 3	14	750362	375 m	
Transmission Line area 4	22	1038104	1,265 m	
Transmission Line area 5	201	1037198	578 m	
	156	40039	1,712 m	
	87	750369	1,790 m	
	PT160	750371	1,478 m	Switching Station
Total length of transmissio	Total length of transmission line		13.7 km	

19. Statement of Commitments

This chapter of the Environmental Assessment states the commitments made by Flyers Creek Wind Farm Pty Ltd (FCWFPL) to be integrated in the project to practicably manage the identified environmental issues and mitigate or avoid the potential environmental impacts.

The following commitments include measures in relation to the overall project environmental management and also for specific measures to address particular environmental impacts. The proponent will ensure that each phase of the project integrates the commitments listed below together with, or as updated, to address the Minister's Conditions of Approval.

The various measures will be applied to the following phases as indicated in the respective sections of the Statement of Commitments:

- Final design and pre-construction planning
- Construction Environmental Management Plan (including site restoration)
- Operational Environmental Management Plan
- Decommissioning and Site Restoration, if applicable

Implementation of the commitments and the performance of the project's environmental management system will be subject to periodic reviews and corrective action, if required.

Note: This document was amended in May 2013 to add the commitment to undertake native flora and heritage surveys of the new transmission line route described in the Preferred Project Report.

Table 19.1 – Statement of Commitments

Issue or Section No.	Commitment	Responsible Party	Timing
General Conditions Resp	onsibility		
Scope of Development	FCWFPL will carry out the development generally in accordance with the information contained in this EA and in compliance with the Minister's Project Approval Conditions.	FCWFPL	Ongoing
Minimising harm to the Environment	FCWFPL will implement all practicable measures to prevent and minimise any harm to the environment that may result from the construction, commissioning, operation, maintenance and decommissioning of the development.	FCWFPL	Ongoing
Statutory requirements	FCWFPL will ensure compliance with all relevant environmental requirements and ensure that all necessary approvals and as relevant, licences and permits, are obtained and are kept up to date as required throughout the life of the development. Copies of these documents will be maintained at the Site Office and EMPs will include measures to ensure compliance.	FCWFPL	Ongoing
Administrative Conditions			
Compliance	FCWFPL will notify in writing the Director-General of the start of the Project's Construction and Operation phases.	FCWFPL	Project start mid 2012
	Such notification must be provided at least two weeks before the relevant start date unless otherwise agreed to by the Director-General.		(at least four weeks before the relevant start date)
	FCWFPL will bring to the Director-General's attention any matter that may require further assessment by the Director-General.	FCWFPL	As required
	FCWFPL will comply with any requirements of the Director-General arising from the Director-General's assessment of:	FCWFPL	As required
	(a) any reports, plans or correspondence that are submitted to satisfy the Conditions of Approval; and		
	(b) the implementation of any actions or measures contained in such reports, plans or correspondence.		
Pre Construction Compliance Report	FCWFPL will submit a Pre-Construction Compliance Report to the Director-General. The Pre-Construction Compliance Report will include:	FCWFPL	Two weeks before Construction commences
	(a) details of how the Conditions of Approval required to be addressed before Construction were complied with;		(or within any other time
	(b) the time when each relevant Condition of Approval was complied with, including dates of submission of any required reports and/or approval dates; and		agreed to by the Director- General
	(c) details of any approvals or licences required to be issued by Relevant Government Departments before Construction commences.		

Issue or Section No.	Commitment	Responsible Party	Timing
Pre Operation Compliance Report	FCWFPL will submit a Pre-Operation Compliance Report to the Director-General. The Pre-Operation Compliance Report must include:	FCWFPL	Two weeks before Operation commences
	(a) details of how the Conditions of Approval required to be addressed before Operation were complied with;		(or within any other time
	(b) the time when each relevant Condition of Approval was complied with, including dates of submission of any required reports and/or approval dates; and		agreed to by the Director- General).
	(c) details of any approvals or licences issued by relevant Government Departments for the Project's Operation.		
Construction	FCWFPL will provide the Director-General with Construction Compliance Reports.	FCWFPL	See below
Compliance Reports	(a) The Environmental Management representative (EMR) must review the Construction Compliance Reports before they are submitted to the Director-General and bring to the Director-General's attention any shortcomings.	EMR	
First Report	First – six months after Construction and be submitted a maximum of six weeks after expiry of that period (or at any other time interval agreed to by the Director General).	FCWFPL EMR	6 months after construction commences
Second and subsequent reports	The second, and subsequent, Construction Compliance Reports will be submitted at maximum intervals of six months from the date of submission of the first Construction Compliance Report (or at any other time interval agreed to by the Director General) for the duration of Construction.	FCWFPL EMR	Maximum of 6 monthly after first report
Report format	The Construction Compliance Reports will include information on:		
	(a) compliance with the CEMP and the Conditions of Approval;		
	(b) compliance with any approvals or any licences issued by relevant Government Departments for Construction;		
	(c) the implementation and effectiveness of environmental controls. The assessment of effectiveness will be based on a comparison of actual impacts against performance criteria identified in the CEMP;		
	(d) environmental monitoring results, presented as a results summary and analysis;		
	(e) the number and details of any complaints, including a summary of main areas of complaint, action taken, response given and intended strategies to reduce recurring complaints;		
	(f) details of any review and amendments to the Construction Environmental Management Plan (CEMP) resulting from Construction during the reporting period; and		
	(g) any other matter relating to compliance with the Conditions of Approval or as requested by the Director-General.		
	The Construction Compliance Reports will be made publicly available.		

Issue or Section No.	Commitment	Responsible Party	Timing
Environmental Impact Au	dit Reports		
Environmental Impact Audit Report – Construction	An Environmental Impact Audit Report – Construction will be prepared and submitted to the Director-General. The Environmental Impact Audit Report – Construction will also be submitted to other government departments upon the request of the Director-General.	FCWFPL	Maximum three months after Construction is complete
	The Environmental Impact Audit Report – Construction will:		(or within any other time agreed to by the Director-
	(a) identify the major environmental controls used during Construction and assess their effectiveness;		General).
	(b) summarise the main environmental management plans and processes implemented during Construction and assess their effectiveness;		
	(c) identify any innovations in Construction methodology used to improve environmental management; and		
	(d) discuss the lessons learnt during Construction, including recommendations for future Projects.		
Environmental Impact Audit Report – Operation	An Environmental Impact Audit Report – Operation will be submitted to the Director-General. The Environmental Impact Audit Report - Operation must also be submitted to other government departments upon the request of the Director-General.	FCWFPL	Maximum 24 months after the Project begins Operation
•	The Environmental Impact Audit Report - Operation will:		Any additional periods that the Director-General may require
	(a) be certified by an independent person at the Proponent's expense. The certifier must be advised to the Director-General before the Environmental Impact Audit Report – Operation is prepared;		
	(b) compare the Operation impact predictions made in the EA, Submissions Report and any supplementary studies with the actual impacts;		
	(c) assess the effectiveness of implemented mitigation measures and safeguards;		
	(d) assess compliance with the systems for operation maintenance and monitoring;		
	(e) discuss the results of consultation with the local community particularly any feedback or complaints; and		
	(f) be made publicly available.		

Issue or Section No.	Commitment	Responsible Party	Timing
Environmental Managem	ent		
Construction Environmental Management Plan (CEMP)	A CEMP will be prepared and implemented in accordance with all relevant Acts and Regulations. (a) FCWFPL will obtain the Director-General's Approval for the CEMP before Construction commences or within any other time agreed to by the Director-General.	FCWFPL	Approval required before construction commences
	 (b) The CEMP must be reviewed by the EMR before FCWFPL seeks the Director-General's approval for the CEMP. The EMR must bring to the Director-General's attention any shortcomings. (c) FCWFPL will ensure that the relevant mitigation measures identified in this EA are incorporated into the CEMP 	EMR	
	or the relevant Sub Plan. (d) The CEMP will be prepared in accordance with the Department's publication entitled Guideline for the Preparation of Environmental Management Plans (2004).		
Operation Environmental Management Plan	An OEMP will be prepared by and implemented in accordance with these Conditions and all relevant Acts and Regulations.	FCWFPL	Approval required before operation commences
(OEMP)	(a) FCWFPL will obtain the approval of the Director-General for the OEMP before Operation commences or within any other time agreed to by the Director-General.		
	(b) FCWFPL will ensure that the mitigation measures identified in this EA are incorporated into the OEMP or the relevant Sub Plan.		
	(c) The OEMP must be prepared in accordance with the Department's publication entitled Guideline for the Preparation of Environmental Management Plans (2004).		
Environmental Management	FCWFPL will request the Director-General's Approval for the appointment of an Environmental Management Representative (EMR) In its request FCWFPL will provide the following information, the:	FCWFPL	Approval required at least eight weeks before
Representative	(a) qualifications and experience of the EMR including demonstration of general compliance with relevant Australian Standards for environmental auditors;		Construction commences (or within any other time agreed to by the Director-General).
	(b) authority and independence (from the Proponent or its contractors) of the EMR including details of the Proponent's internal reporting structure; and		
	(c) resourcing of the EMR role. The EMR will be available:		
	 (i) for sufficient time to undertake the EMR role. This timing shall be agreed between FCWFPL and the EMR and advised to the Director-General in the request for approval; 		
	(ii) at any other time requested by the Director-General;		
	(iii) during any Construction activities identified in the CEMP to require the EMR's attendance; and		
	(iv) for the duration of Construction.		

Issue or Section No.	Commitment	Responsible Party	Timing
Revoking the Environmental Management	The Director-General may at any time immediately revoke the approval of an EMR appointment by providing written notice to FCWFPL. Interim arrangements for EMR responsibility following the revocation must be agreed in writing between the Director-General and FCWFPL.	Department of Planning	If required
Representative	The Director-General may at any time conduct an audit of any actions undertaken by the EMR.		
	FCWFPL will:		
	(a) facilitate and assist the Director-General in any such audit; and		
	(b) include in the conditions of the EMR's appointment the need to facilitate and assist the Director-General in any such audit.		
Environmental	The EMR is authorised to:	EMR	
Management Representative Responsibilities	(a) consider and advise the Director-General and FCWFPL on matters specified in the Conditions of Approval and compliance with such;		
·	(b) determine whether work falls within the definition of Construction where clarification is requested by FCWFPL;		
	(c) review the CEMP;		
	(d) periodically monitor FCWFPL's activities to evaluate compliance with the CEMP. Periodic monitoring must involve site inspections of active work sites at least fortnightly;		
	(e) provide a written report to FCWFPL of any non-compliance with the CEMP observed or identified by the EMR. Non compliance must be managed as identified in the CEMP;		
	(f) Issue a recommendation to FCWFPL to stop work immediately if in the view of the EMR an unacceptable impact on the environment is occurring or is likely to occur. The stop work recommendation may be limited to specific activities causing an impact if the EMR can easily identify those activities. The EMR may also recommend that FCWFPL initiate reasonable actions to avoid or minimise adverse impacts;		
Environmental Management	(g) review corrective and preventative actions to monitor the implementation of recommendations made from audits and site inspections;	EMR	
Representative Responsibilities (cont)	(h) certify that minor revisions to the CEMP are consistent with the approved CEMP; and		
	(i) provide regular (as agreed with the Director-General) reports to the Director-General on matters relevant to carrying out the EMR role including notifying the Director-General of any stop work recommendations.		
	The EMR must immediately advise FCWFPL and the Director-General of any incidents relevant to these Conditions resulting from Construction that were not dealt with expediently or adequately by FCWFPL.		

Issue or Section No.	Commitment	Responsible Party	Timing
Community and Consulta	tion		
Advice of Construction Activities	FCWFPL will ensure that the local community and businesses are advised of Construction activities that could cause disruption. Methods to disseminate this information will be identified in the CEMP. Information to be provided will include:	FCWFPL	As required
	(a) details of any traffic disruptions and controls;		
	(b) construction of temporary detours; and		
	(c) work approved to be undertaken outside standard Construction hours, in particular noisy works, before such works are undertaken.		
Establishment of a Project Internet Site	FCWFPL will establish a Project internet site before Construction commences and maintain the internet site until Construction ends. This internet site will contain:	FCWFPL	Before Construction commences
	(a) periodic updates of work progress, consultation activities and planned work schedules. The site will indicate the date of the last update and the frequency of the internet site updates;		
	(b) a description of relevant approval authorities and their areas of responsibility;		
	(c) a list of project reports and plans that are publicly available and details of how these can be accessed;		
	(d) contact names and phone numbers of relevant communications staff; and		
	(e) the 24 hour toll-free complaints contact telephone number.		
	Updates of work progress, construction activities and planned work schedules will be provided where significant changes in noise or traffic impacts are expected and will be reviewed progressively by FCWFPL.		
Complaints Management	Prior to the commencement of Construction, FCWFPL will ensure that the following is available for the construction and operation period:	FCWFPL	Before Construction commences and available
	(a) a postal address to which written complaints may be sent;		during operation
	(b) an e-mail address to which electronic complaints may be transmitted; and		
	(c) a 24-hour telephone contact line.		

Issue or Section No.	Commitment	Responsible Party	Timing
Complaints Management	FCWFPL will keep a legible record of all complaints received in an up-to-date Complaints Register. The Complaints Register will record, but not necessarily be limited to:	FCWFPL	During Construction and available during operation
	(a) the date and time, where relevant, of the complaint;		
	(b) the means by which the complaint was made (telephone, mail or e-mail);		
	(c) any personal details of the complainant that were provided, or if no details were provided, a note to that effect;		
	(d) the nature of the complaint;		
	(e) any action(s) taken by FCWFPL in relation to the complaint, including any follow-up contact with the complainant; and		
	(f) if no action was taken by FCWFPL in relation to the complaint, the reason(s) why no action was taken.		
	The Complaints Register will be made available for inspection on request of the Director-General. The record of a complaint must be kept for at least four years after the complaint was made.		
Flora and Fauna Manage	nent		
Flora and Fauna Management Sub Plan	A Flora and Fauna Management Sub Plan will be prepared by FCWFPL as a sub plan of the CEMP. This sub plan will include:	FCWFPL	Approval required before Construction commences
J	(a) plans showing sensitive terrestrial vegetation communities; important flora and fauna habitat areas; locations where threatened species, populations or ecological communities were recorded; and limits of areas to be cleared:		
	Gealeu,		
	(b) methods to manage impacts on flora and fauna species (terrestrial and aquatic) and their habitat which may be directly or indirectly affected by the Project. These will include:		
	(b) methods to manage impacts on flora and fauna species (terrestrial and aquatic) and their habitat which may be		
	(b) methods to manage impacts on flora and fauna species (terrestrial and aquatic) and their habitat which may be directly or indirectly affected by the Project. These will include:(i) procedures for vegetation clearing, soil management and managing other habitat damage during		
	 (b) methods to manage impacts on flora and fauna species (terrestrial and aquatic) and their habitat which may be directly or indirectly affected by the Project. These will include: (i) procedures for vegetation clearing, soil management and managing other habitat damage during Construction; (ii) methods to protect vegetation both retained within, and also adjoining, the Project from damage during 		
	 (b) methods to manage impacts on flora and fauna species (terrestrial and aquatic) and their habitat which may be directly or indirectly affected by the Project. These will include: (i) procedures for vegetation clearing, soil management and managing other habitat damage during Construction; (ii) methods to protect vegetation both retained within, and also adjoining, the Project from damage during Construction; (iii) a habitat tree management program including fauna recovery procedures and habitat maintenance (e.g. 		

Issue or Section No.	Commitment	Responsible Party	Timing
Flora and Fauna Management Sub Plan (continued)	(c) rehabilitation details including:	FCWFPL	Approval required before
	 (i) identification of locally native species to be used in rehabilitation and landscaping works, including flora species suitable as a food resource for threatened fauna species; 		Construction commences
	(ii) methods to remediate affected aquatic habitats;		
	(iii) the source of all seed or tube stock to be used in rehabilitation and landscaping works including the identification of seed sources within the Project. Seed of locally native species within the Project will be collected before Construction commences to provide seed stock for revegetation;		
	(iv) methods to re-use topsoil (and where relevant subsoils) and cleared vegetation;		
	(v) measures for the management and maintenance of all preserved, planted and rehabilitated vegetation;		
	(d) a Weed Management Strategy including:		
	(i) identification of weeds within the Project and adjoining areas;		
	(ii) methods to treat and re-use weed infested topsoil;		
	(iii) strategies to control the spread of weeds during Construction;		
	(e) a program for reporting on the effectiveness of flora and fauna management measures against the identified performance criteria. Management methods must be reviewed where found to be ineffective;		
	(f) the mitigation measures in Chapter 10 of the EA. This includes the following:		

Issue or Section No.	Commitment	Responsible Party	Timing
Flora and Fauna Site Specific Requirements (Chapter 10)	Specific areas where clearing is to be carefully planned and managed including pre-clearing reviews, monitoring and review include the following locations:	FCWFPL / Contractor	Before and during Construction, as required
	- Turbine site 3 – avoid scattered trees		
	 Access track and cable routes between Turbines 4 and 6 – avoid scattered trees 		
	 Vicinity of Turbine 9 – avoid scattered trees 		
	- Access route to Turbine 16 – follow edge of trees		
	 Siting of Turbines 18 and 19 and associated tracks – avoid scattered trees 		
	Cable route for Turbine 20 to avoid clumps of remnant woodland		
	- Turbine site 33 – minimise clearing of trees		
	 Access track to Turbine 39 – minimise clearing of scattered trees 		
	- Turbine site 39 – avoid nearby cluster of trees		
	- Cable route Turbine 39 to Turbine 43 to follow route that minimises clearing		
	 33kV overhead line to avoid tree clearance wherever practicable, proposed route to be pegged and reviewed by ecologist (east of substation, in vicinity of Turbines 18 and 19, southern end to reach point of connection with underground cable circuits 		
	Where the crossing of small creeks is necessary for track and cable routes, the crossings will be designed to avoid erosion and the movement of soil into watercourses. The main risk area for erosion is for the cable route between turbine 39 and Turbine 43 and consideration may be given to having this section of underground cable replaced by a section of overhead transmission line.		
	A native flora survey will be conducted of the new transmission line route documented in the Preferred Project Report.		
Flora and Fauna Mitigation Measures	In addition to the site specific measures identified above, the proponent will adopt the following measures that are of a more general nature to ensure that impacts on the site's ecological values are minimised.	FCWFPL	
Chapter 10)	Clearing of scattered trees or woodland will be avoided wherever possible. Where avoidance is not possible, clearing and lopping will be kept to the bare minimum to maximise conservation of the woodland.	Contractor	On going throughout construction
	A soil and water management plan will be prepared for the project, in consultation with the Department of Planning and Department of Environment and Climate Change.	FCWFPL	Before construction commences
	Targeted monitoring in 2011, at the time of the year when Eastern Bentwing Bats migrate from the breeding caves (March-April), with detectors at relevant turbine locations to confirm that this species is not present in significant numbers at the wind farm site.	EMR	Before construction commences
	The EMR will be appointed for the construction phase of the project who will ensure that appropriate environmental safeguards are implemented to ensure the mitigation measures set out here are implemented.		

Issue or Section No.	Commitment	Responsible Party	Timing
Flora and Fauna Mitigation Measures (Chapter 10)	 A targeted survey of the Superb Parrot will be undertaken in the breeding season (September to December) by a qualified biologist prior to construction commencing. The method provided in Appendix D will be employed in this survey. In addition, should nesting sites be identified, the targeted surveys will be expanded to include forage areas and flight paths. To reduce the potential impact on birds of prey: 	FCWFPL Contractor, EMR, Land owners	Before construction commences Ongoing through operation of the wind farm
	 the towers will be smooth, with no perching sites dead animals, eg sheep carcasses and road kills, will be removed as soon as practical within a 200 metre radius of each turbine 	Contractor, Land owners Land owners	
	 lambing should be avoided in paddocks containing turbines no lights, other than safety lights for aircraft (if required), will be installed on the turbines in case they attract owls. Lighting at the substation facilities will also be minimised due to its proximity to turbine sites no buildings, poles or other structures apart from meteorological masts should be constructed within 200 		
	metres of a turbine because they provide perching opportunities for birds of prey any dead trees near turbines will be removed for the same reason no trees should be planted near turbines	FCWFPL	
	 An avifauna impact monitoring program will be implemented once the project is operational. The monitoring program will be developed through reference to the Australian Wind Energy Association (AWEA) July 2005 report 'Wind Farms and Birds: Interim Standards for Risk Assessment' and relevant specialists. Prior to its implementation, the proposed monitoring program will be submitted to the DECCW. Should the proposed monitoring reveal substantial evidence of bird or bat strike, FCWFPL will engage an 	FCWFPL	
	 appropriate specialist to assess the incidences and identify practical and effective mitigation measures. No large dams should be constructed on wind farmer properties within a one kilometre radius of a turbine; large dams could attract flocks of waterfowl and thereby increase their susceptibility to blade-strike. The exact location of the turbines and access tracks will be micro-sited in conjunction with the EMR during the 	Contractor, Land owners FCWFPL, EMR,	
	 construction phase of the project to avoid unnecessary impacts on native vegetation, flora and fauna. All turbine sites should avoid the need to clear large mature trees. In the event that treed vegetation cannot be avoided above the threshold requiring an offset, a suitable offset metric and a suitable offset strategy will be determined in consultation with DECCW. This strategy should 	FCWFPL FCWFPL	
	 demonstrate that appropriate offset options are available (e.g. suitable woodlands on/off site or suitable land is available on site that could be fenced off and used for planting of appropriate native species. Security of tenure and financial arrangements for the conservation management of proposed offsets, should they be required, will be undertaken once the offsets have been determined. 	EMR	
	The EMR will ensure that barriers are erected around sensitive vegetation to be retained and which may be impacted by construction works at nearby turbine sites or access tracks		

Issue or Section No.	Commitment	Responsible Party	Timing
Flora and Fauna Mitigation Measures (continued)	Rock outcrops will be avoided where practicable. Where there is a need to disturb rock outcrop the disturbed rock will be relocated and similar rocky habitat reconstructed nearby. Where batters are constructed using rock then these will be left in this form to provide reptile habitat and locations where rocky scrub can develop	Contractor	
(Chapter 10)	Measures must be incorporated in the Project Environmental Management Plan to restrict the introduction of weeds to the wind farm site and for post construction weed control measures to be applied for all areas disturbed by the project.	FCWFPL, EMR	
	FCWFPL will consult with the landowners involved with the project to identify a suitable area of woodland that could be fenced off for the duration of the project.	FCWFPL, Land owners	
	The EMR appointed for the construction phase of the project, will ensure that appropriate environmental safeguards are implemented including the mitigation measures set out here.	EMR	
	Once the project layout has been confirmed, an ecologist if necessary, will revisit the site to ensure that impacts on areas of high conservation value are minimised. Barriers will be installed where necessary to avoid movements beyond defined work areas.		
Cultural Heritage Sub-pla	n		
Cultural Heritage Sub Plan	A Cultural Heritage Management Sub Plan will be prepared by FCWFPL as part of the CEMP. The sub plan must incorporate the mitigation measures identified in Chapter 10 of the EA,	FCWFPL	Before construction commences
Cultural Heritage Mitigation Measures (Chapter 11)	 Mitigation measures identified in Chapter 10 includes the following: The layout of the proposed wind farm infrastructure will be slightly modified to avoid disturbing the two high significance PADs identified within the site area. Temporary fencing of these PAD areas will be undertaken during construction. Should the alternative sites be in areas that have not been previously assessed, then additional investigation by an archaeological specialist and Aboriginal stakeholders will be undertaken to confirm suitability of these locations. Alternatively a program of test excavation and reporting can be undertaken to clarify the archaeological potential of PADs located within the study area. The layout of cables and/or tracks will be slightly modified to avoid the surface artefacts FCWF-S-01 to 04 and FCWF-IF-01 to 03. In the unlikely event this is impractical, salvage through collection and relocation of surface 	FCWFPL and Contractor	During construction and as required

Issue or Section No.	Commitment	Responsible Party	Timing
Cultural Heritage Mitigation Measures (continued) (Chapter 11)	If additional unrecorded Aboriginal archaeological material is encountered during development, works shall cease immediately to allow an archaeologist to make an assessment of the finds, as all Aboriginal artefacts (known and unknown) are protected under the NP&W Act 1974 and Amendment Act 2010. DECCW will be notified immediately of any such finds as per these Acts.		
	As required by the NSW Heritage Act 1977 (amended), in the event that historic relics are encountered, works shall cease immediately to allow an archaeologist to make an assessment of the finds. The archaeologist may need to consult with the Heritage Branch Department of Planning concerning the significance of any historic cultural material encountered. Access to Aboriginal archaeological information will be restricted in the event that this report and the full Austral Aboriginal Archaeological and Cultural Heritage Assessment is to go on public exhibition. Consultation with Austral Archaeology Pty Ltd, and the registered Aboriginal stakeholders will be undertaken to determine the appropriate level of public release.		
	Copies of the finalised report shall be provided by the client to the Aboriginal stakeholder groups and the individual stakeholders. Austral Archaeology Pty Ltd will provide a copy of the finalised report to NSW DECCW. Completed site cards shall be provided to the DECCW AHIMS Registrar as per the NP&W Act 1974 and Amendment Act 2010.		
	Consultation with relevant stakeholders will be continued during any subsequent stages of planning and implementation. The mitigation measures that are relevant to matters potentially affecting indigenous heritage aspects will be incorporated in the project Environmental Management Plan (EMP).		
	A cultural heritage survey will be conducted of the new transmission line route documented in the Preferred Project Report.		
on Indigenous eritage Mitigation leasures	Where the wind farm construction works are in close proximity (less than 100 metres) to any identified items of non-Aboriginal heritage significance, a temporary fence will be constructed around the item for the duration of the construction works to avoid disturbance of the particular feature. Items to be protected from damage by the project include the Calvert Trig Station site and its associated reference marks. These will be protected by fencing erected by the contractor prior to any works at Turbine site 4. The fencing will be maintained for the duration of the construction works and if required by Lands Department following completion of construction works. Such fencing would be at least 5 metres in each direction from the Trig Station or any reference marks in its vicinity and no construction activities will occur within the fenced area. Site monitoring will routinely ensure that the fence around this survey facility is secure.	Contractor	Before construction commences
	FCWFPL will, prior to commencement of construction, arrange for the preparation of a photographic record of any former mining structures that could be disturbed. This includes the former mining shaft site and footing in the vicinity of Turbines 5 and 6 and the access track and the remains of the old hut on the ridgeline near the shaft. No works will occur within 20 metres of these sites.	FCWFPL	Before construction commences

Issue or Section No.	Commitment	Responsible Party	Timing
Noise Management			
Construction Noise Management Sub Plan	A Construction Noise Management sub plan will be implemented as part of the Project CEMP for the construction stage of the project to mitigate potential adverse noise impacts that could affect nearby residents. Key components of the construction noise management sub-plan will include the mitigation measures identified in Chapter 12.	FCWFPL	Before construction commences
	Prior to commencement of construction, neighbours to the wind farm site will be informed of the construction works, the nature and duration of components of the construction phase, the potential impacts and contact details for registering complaints or enquiries	FCWFPL	Before construction commences
Work hours	Construction activities associated with the Development, including heavy vehicles entering and exiting the Site, will only be carried out between 7:00 am and 6:00 pm, Monday to Friday inclusive, and between 7:00 am and 1:00 pm on Saturdays if inaudible at neighbouring occupied residences and 8:00 am to 1:00 pm if audible. The following activities may be carried out in association with Construction outside of these hours:	FCWFPL and Contractor	During Construction
	(a) any works that do not cause noise emissions to be audible at any nearby residences not located on the Premises		
	(b) the delivery of materials as requested by Police or other authorities for safety reasons		
	(c) emergency work to avoid the loss of lives, property and/or to prevent environmental harm		
	(d) completion of a concrete pour that extends beyond normal working hours due to unforeseen delays		
	(e) conduct of some lifting operations to install turbine components during periods of low wind speed for safety reasons		
	Any work undertaken outside the specified construction hours, other than those specified in (a) – (e) above, will not be undertaken without prior approval of the Department of Planning		
	All vehicles to have the required noise control devices suitable for use on public roads.		
Blasting	Blasting operations will be avoided where practicable but if required will only take place between 9:00 am and 5:00 pm Monday to Friday inclusive and between 9:00 am and 1:00 pm Saturday; and at such other times or frequency as may be approved by the DECC and will comply with the following	FCWFPL and Contractor	During Construction
	(a) The air-blast overpressure level from blasting when assessed at the closest occupied residential sites surrounding the wind farm will not exceed 115 dB(A) (Lin Peak) for more than 5% of the total number of blasts during each reporting period; and 120 dB(A) (Lin Peak) at any time		
	(b) The ground vibration peak particle velocity from blasting operations when assessed at the closest occupied residential sites surrounding the wind will not exceed 5 mm/s for more than 5% of the total number of blasts carried out on the Site during each reporting period; and 10 mm/s at any time.		
Complaints	Should any instances of elevated noise levels arising from construction works impact surrounding relevant receivers as indicated by receipt of complaints, then the matter will be investigated by the proponent and where practicable measures will be implemented to reduce the impact. A response will be provided to the complainant as to the findings and any modifications to reduce the impact.	FCWFPL	As required

Issue or Section No.	Commitment	Responsible Party	Timing
Operational Noise Management Sub Plan	To ensure that the noise impacts of the operations phase comply with the applicable noise criteria as outlined in the Environmental Assessment, the proponent will select equipment and a project layout that enables compliance with the relevant criteria. The proponent will also integrate the following measures in the project's Operational Noise Management Sub Plan included in the Operations Environmental Management Plan (OEMP):		
	Prior to commencement of construction, the proponent will develop a noise compliance assessment protocol to be implemented following commissioning of the wind farm. The protocol will be developed by an acoustic engineer and in consultation with the Department of Planning	FCWFPL	Before construction commences
	Prior to commissioning of the wind farm, neighbours to the wind farm will be provided with details of the commissioning and contact details in the event that disturbance occurs at their neighbouring residence	FCWFPL	Before commissioning of the wind farm commences
	Within three months of commissioning of the wind farm compliance checks will be undertaken for the closest relevant receiver residences to confirm that wind farm noise levels do not exceed criteria at this location and verify reliability of predictions. If complaints are received in the first month of operation then the assessment must be implemented within two weeks, or as soon as practical, of a complaint being received	FCWFPL	Within three months of commissioning
	If the measured noise levels exceeds predictions, compliance checks will also be undertaken at relevant receiver residences to confirm that wind farm noise levels do not exceed criteria at these locations	FCWFPL	
Complaints	If complaints in respect of noise impact are received from more distant relevant receivers following the wind farm commissioning then these complaints will also be investigated and if warranted compliance checks will also be undertaken for these residences where the initial investigation has indicated that the complaint may relate to an exceedance of criteria	FCWFPL	As required
Compliance assessment	Prior to the compliance assessment and if the complaint can be reasonably judged to be related to exceedance of relevant criteria then the proponent will modify the operation of the wind farm to reduce the noise levels experienced at the affected residence while the investigation is being undertaken and/or will undertake noise testing at the affected residence.	FCWFPL	If required
	Where the compliance assessment identifies exceedance of criteria for specific wind speeds or under certain atmospheric conditions then the proponent will limit the operation of the contributing turbines and provide a plan to the Department of Planning indicating how compliance will be ensured for the operation where exceedance occurs	FCWFPL	If required
	Subject to Department of Planning approval of the plan for mitigation of a confirmed exceedance, FCWFPL will implement the necessary measures to achieve compliance and demonstrate the effectiveness of the measures implemented and that compliance has been achieved	FCWFPL	As required
	If agreeable to an owner of a relevant receiver residence, FCWFPL may provide improvements to the affected residence in place of or in addition to modification to the wind farm operation to reduce the impact for the specific neighbour	FCWFPL	If required

Issue or Section No.					Commitr	nent						Responsible Party	Timing
Operational Noise Levels	Noise crieria LA90>10min dB(central meteorological ma	(A) devel ast at 78	oped in a .6 metres	accordano height	ce with the	e SA EP	A Guide	lines rel	ative to w	ind spee	d at reference		
(hub height reference)	Relevant Receiver			(Referer	Wind Sp)			
	Location	3	4	5	6	7	8	9	10	11	12		
	R012	35	35	35.5	36.5	38	39	40	41	41.5	42.5		
	R025	35	35	35	35	36	37	38	39	40	40.5		
	R027	35	35	35	35	35	36.5	37.5	39	40	41		
	R078	35	35	35	35	35	36	37.5	39.5	41	43.5		
	R089	39	40.5	41.5	43	44	45	46.5	47.5	48.5	50		
Operational Noise Levels	Noise crieria LA90>10min dB(-	ve to wind										
(at 10 metre height	Location	n		Wind	Speed m	netres p	er seco	nd (Refe	erence 1) metres	AGL)		
reference)				3	4	5		6	7	8	9		
	R012			35	36	38	39	9.5	40.5	41.5	42.5		
	R025			35	35	36	37	7.5	38.5	40	40.5		
	R027			35	35	35	3	37	38.5	40	41		
	R078			35	35	35	3	5.6	39	41.5	43.5		
	R089			40.5	42.5	44	4	5.5	47	48.5	50		
Noise mitigation measures (Chapter 12)	Additional <u>Design</u> mitigat The management of management plans a operations phases. The layout of the wir backs from neighbor.	potentia and will b	I noise in be achiev	npacts is red throug dered the	seen as a gh noise n	a key ele nanager noise ir	ment of nent sub	the proje p-plans fo	or the co	nstruction	and		

Issue or Section No.	Commitment	Responsible Party	Timing
Noise mitigation measures (Chapter 12)	At the final design stage, FCWFPL also has the ability to vary the sites developed, the turbine model and, if required, the turbine operation to achieve a noise compliant array while optimising the utilisation of the wind energy resource at the site. Options available include:	FCWFPL	
(Onapier 12)	 Using a turbine model and associated layout that will enable the wind farm to be operated in a manner that enables compliance with the SA EPA criteria. 		
	- Selection of the turbine model with a different noise specification than the GE 2.5xl 2.5 MW turbine.		
	- If the GE 2.5xl 2.5 MW turbine were selected then modification of its operation to achieve compliance.		
	 Should the turbine selected at the final design stage, have a higher noise specification than the GE 2.5xl-2.5 MW wind turbine used in the noise assessment described here, the proponent will undertake a new noise impact assessment, the results of which will be provided to the Department of Planning. Such a noise assessment will demonstrate full compliance with the EPA SA's Wind Farms, Environmental Noise Guidelines: February 2003. 	FCWFPL	
	FCWFPL is committed to ensuring that the installed wind farm complies with the criteria developed in accordance with the SA EPA guidelines.	FCWFPL	

Issue or Section No.	Commitment	Responsible Party	Timing
Soil and Water Managem	ent Plan		
Soil and Water Management Sub Plan	As part of the CEMP, a Soil and Water Management Sub Plan will be prepared by FCWFPL in consultation with relevant government departments and Blayney Shire Council. The Sub Plan will:		Before Construction commences
	(a) where relevant, be consistent with the RTA's Guidelines for the Control of Erosion and Sedimentation in Roadworks;		
	(b) identify the Construction activities that could cause soil erosion or discharge sediment or water pollutants from the site;		
	(c) describe management methods to minimise soil erosion or discharge of sediment or water pollutants from the site including a strategy to minimise the area of bare surfaces during Construction;		
	(d) describe the location and capacity of erosion and sediment control measures;		
	(e) identify the timing and conditions under which Construction stage controls will be decommissioned;		
	(f) identify how the effectiveness of the sediment and erosion control system will be monitored, reviewed and updated;		
	(g) include contingency plans to be implemented for events such as fuel spills; and		
	(h) Disturbed areas will be required to be stabilised in accordance with the following principles:		
	 temporary vegetation, mulch or other stabiliser will be applied to all disturbed areas, including soil stockpiles that remain exposed for a period of 30 days or more 		
	 all temporary earth diversion banks and sediment basin embankments will be seeded and fertilised as soon as practicable after construction and take into account the growing seasons 		
	- stabilisation of all batters will be commenced within ten days of completion of formation		

Issue or Section No.	Commitment	Responsible Party	Timing
Soil and Water Management Sub Plan	 All temporary control measures will be removed when revegetation has established on formerly disturbed areas and will be disposed of in a satisfactory manner. 	FCWFPL	Before Construction commences
(continued)	 Stockpile sites will be clearly identified and selected to be free from traffic and away from drainage lines and watercourses. They will be managed to minimise erosion and loss of topsoil. 		
	(i) At the conclusion of construction, all temporary tracks and areas disturbed by construction work including cable routes and hardstand areas surrounding the wind turbines will be reinstated and revegetated. Follow up maintenance will be undertaken until the areas are satisfactorily stabilised and restored.		
	(j) An appropriately qualified soil scientist will be consulted according to a schedule identified in the Soil and Water Management Sub Plan to:		
	 undertake inspections of temporary and permanent erosion and sedimentation control devices; 		
	ensure that the most appropriate controls are being implemented;		
	check that controls are being maintained in an efficient condition; and		
	check that controls meet the requirements of any relevant approval condition.		
	The results of these inspections and any follow-up actions will be reported in the Construction Compliance Reports.		
	(k) All erosion and sediment control devices will be maintained in satisfactory working order until such time as the disturbed areas have been stabilised to the satisfaction of FCWFPL and the respective landowners. Erosion and sediment devices will be inspected regularly after each rain period and during periods of prolonged heavy rain and any defects rectified promptly.		
Soil and Water	Mitigation measures provided in Chapter 7 of the EA includes:	FCWFPL	Before construction
Mitigation Measurements	Divert surface runoff away from earthwork areas and soil stockpiles		commences
(Chapter 7)	Reduce the energy of surface flows in areas of potential erosion		
	Prevent sediment laden or contaminated water leaving the construction site		
	Provide containment for sediment entrained in surface flows		
	Reduce susceptibility of disturbed areas to erosion and include prompt revegetation of disturbed areas		
	In the event of water courses being crossed, appropriate measures would be employed to ensure that the natural drainage of the watercourses are not impacted		
	If any licenses or permits are required for extraction of water, these will be obtained by the proponent as required after consultation with the relevant authority.		

Issue or Section No.	Commitment	Responsible Party	Timing
	Typical erosion and sediment control measures to achieve these objectives include:	FCWFPL	Before construction
	Construction of drains and check dams		commences
	Construction of diversion banks, perimeter banks and level spreader sills		
	Use of sediment traps		
	Sediment fences around stockpiles and areas of earthworks		
	Stabilisation of temporary and permanent batters		
	Straw bale and geotextile filter fabric sediment traps and filters		
	Minimising periods that disturbed soil remains exposed with potential to be eroded		
Fuel and Oil Managemer	t Plan		
Fuel and Oil Management Sub Plan	As part of the CEMP, a Fuel and Oil Management Sub Plan will be prepared by FCWFPL in consultation with relevant Government Departments and Blayney Shire Council. The Sub Plan will include mitigation measures such as:	FCWFPL	Before construction commences
	(a) If oil filled generator transformers are used, containment measures will be incorporated to prevent any oil loss reaching local watercourses		
	(b) FCWFPL will require the design of the substation to incorporate provision for containment of any oil spillage or leakage from the 33 kV/132 kV transformers including secondary containment.		
	(c) In the case of areas of oil or fuel storage on-site, FCWFPL will provide sufficient containment to contain any spillage that may occur at the location. Such sites will be monitored periodically for integrity of containment and adequacy of handling procedures. For the substation, containment measures will also include a secondary containment dam down-slope of the substation.		
Operational	Once operational,	FCWFPL	Ongoing as part of
Management	(d) regular inspection of the transformers and associated turbine equipment will be carried out to ensure that they remain in good working condition and are leak free.		maintenance programme
	(e) Procedures for maintenance will be documented and followed by maintenance staff		
Spoil and Fill Manageme	nt .		
Spoil and Fill	For the purposes of the development, FCWFPL will ensure any imported fill:	FCWFPL	Ongoing during construction
Management	will be Virgin Excavated Natural Material as defined in the Environment Protection Authority's guideline Assessment, Classification and Management of Liquid and Non-Liquid Wastes.		and as required

Issue or Section No.	Commitment	Responsible Party	Timing
Greenhouse and Energy	Management Strategy		
Greenhouse and Energy Management Strategy	A Greenhouse and Energy Management Strategy will be prepared by FCWFPL prior to construction commencing, to ensure the use of non-renewable <i>resources</i> from Construction and Operation is minimised.	FCWFPL	Before construction commences
Traffic Management			
Construction Traffic Management Sub Plan	As part of the CEMP, a Construction Traffic and Transport Management Sub Plan will be prepared by FCWFPL in consultation with Blayney Shire Council, the RTA and NSW Police. The sub plan will:	FCWFPL	Before construction commences
	(a) identify designated transport routes for heavy vehicles to the Development Site;		
	(b) include measures to minimise traffic disruption in the vicinity of the development site;		
	(c) include measures to minimise disturbance from traffic noise;		
	(d) include measures to manage construction traffic to ensure the safety of:		
	(i) livestock and limit disruption to livestock movement;		
	(ii) school children and limit disruption to school bus timetables;		
	(e) include a community information program to inform the community of traffic disruptions resulting from the construction program; and		
	(f) prior notification to the community of construction works and potential impacts for the local community		
	(g) The site access from public roads will be via entrances constructed as agreed by FCWFPL, the property owners and Blayney Shire Council to ensure safe negotiation by large vehicles access and minimise disruption to local traffic. A lockable gate will be installed at a point set back from the road at each entrance point.		
	(h) The routing of access tracks will take into account the following considerations:		
	(i) minimise the length of tracks		
	(ii) locate along the routes of existing tracks where possible		
	(iii) locate where clearing of vegetation is minimised		
	(iv) construct with due regard to safety, erosion, sediment control and drainage		
	(v) position and design, as far as possible, to reduce visual impacts		
	(i) Concurrence with permit requirements for over-size and over-mass vehicles including the use of escort vehicles as required		
	(j) include the mitigation measures outlined in Chapter 13 of the EA as listed below.		

Issue or Section No.	Commitment	Responsible Party	Timing
Construction Traffic	Mitigation measures provided in Chapter 13 of the EA include:	FCWPL, Contractor and	During construction and
Mitigation Measures (Chapter 13)	implementation of a community information and awareness program ensuring details of the status of works and contact details for any complaints or enquiries are available	EMR	operation of the wind farm
	General signposting of the access roads with appropriate heavy vehicle and construction warning signs		
	Specific warning signs will be located adjacent to the entrances to the site to warn existing road users of entering and exiting traffic and this will be supported by the use of escort vehicles for RAVs where necessary		
	The use of day warning notices where signs are activated on a specific day to warn local road users of construction activities will also be considered.		
	Attention will be given to traffic control and warning signs where the geometry of the road dictates that a potential safety issue exists. On-site access will be restricted to defined tracks, to ensure environmental impact is minimised.		
	Provision of traffic control personnel where large vehicles are required to execute difficult or potentially unsafe manoeuvres on public roads		
	Restrictions on the timing of some large equipment and materials deliveries to site to mitigate specific local impacts. In particular the following measures may need to be adopted:		
	 restriction of traffic movements to avoid RAVs passing schools during the school zone periods and to avoid RAV movements conflicting with school bus operations 		
	 local deliveries to the site during daylight hours only to mitigate safety problems on local roads and to reduce disturbance for residences near to the access roads 		
	Establishment of an inspection and maintenance program for the local road access network to ensure condition of roads are maintained in safe state		
	Construction of access track routes in proximity to any environmentally sensitive areas to be guided by relevant specialists		
	Maintenance program for on-site access tracks to ensure safe access		
	Implementation of a proactive erosion and sediment control plan for on-site roads and laydown areas		
	At the conclusion of the construction phase, any tracks not required for subsequent operation and maintenance of the wind farm will be restored and revegetated		

Issue or Section No.	Commitment	Responsible Party	Timing
Bushfire Risk Manageme	t en		
Bushfire Risk Management Sub Plan	As part of the Construction and Operation EMPs, FCWFPL will prepare, in consultation with the Rural Fire Service, a Bushfire Risk Management Sub Plan based on the guidelines 'Planning for Bushfire Protection' (RFS, 2006 or its latest edition). The sub plan will include the following:	FCWFPL	Before construction commences
	(a) details of the bushfire hazards and risks associated with the Development;		
	(b) mitigation measures including contingency plans;		
	(c) procedures and programs for liaison and regular drills with the Rural Fire Service;		
	(d) procedures for regular fire prevention inspections by the Rural Fire Service and implementation of any recommendations; and		
	(e) include the mitigation measures in Chapters 16 of the EA.		
	(f) During the construction phase the following measures will be implemented to manage any bushfire risk:		
	 The contractor will be required to comply with all relevant sections of the Bush Fires Act and the Fire Brigade Act and all Regulations thereto and will be required to liaise with the Rural Fire Service 		
	 Where necessary, access tracks and work sites will be slashed to remove vegetation in excess of 100 mm high 		
	- All construction vehicles will use diesel fuel		
	 A mobile 1,000 litre tanker unit complete with motor-driven pump, hose and nozzle will remain at the site during construction work 		
	 Knapsack sprays and McLeod tools will be kept on hand at each actual work site 		
	 In the event of welding, flame cutting or grinding being carried out in the open during periods of fire danger, an observer holding a knapsack spray will be on hand 		
	 The contractor will be required to maintain the exhaust systems of all vehicles on site in sound condition and to avoid any build up of dry vegetation under vehicles 		
	- The use of explosives will not be allowed during periods of high bushfire risk		

Issue or Section No.	Commitment	Responsible Party	Timing
Bushfire Risk Management Sub Plan (continued)	(g) The potential fire risk associated with electrical failure will be managed by the following measures:		
	 Use of fully enclosed electrical equipment on turbine structures and padmount transformers 		
	Extensive use of underground cabling between turbines		
	Design of any overhead lines in accordance with industry standards		
	Exclusion of vegetation from within the substation enclosure		
	Use of circuit breakers and fuses to interrupt any electrical fault		
	(h) Adoption of lightning protection measures described in Chapter 16		
Waste Management			
Waste Management and Re-use Sub Plan	As part of the CEMP and OEMP, FCWFPL will prepare a Waste Management and Re-use Sub Plan to address the management of wastes during the Construction and Operation stages respectively in accordance with the NSW Government's Waste Reduction and Purchasing Policy. The Sub Plan will identify requirements for:		
	(a) the application of the waste minimisation hierarchy principles of avoid/reduce/reuse/recycle/dispose;		
	(b) waste handling and storage;		
	(c) disposal of wastes. Specific details must be provided for cleared vegetation, contaminated materials, glass, metals and plastics, hydrocarbons (lubricants and fuels) and sanitary wastes; and		
	(d) Any waste material that is unable to be re-used, re-processed or recycled must be disposed at a facility approved to receive that type of waste; Surplus topsoil will be spread on the site to blend in with the natural landform and will be revegetated		
	(e) Surplus excavated material will be disposed of on the relevant property at one or more locations as agreed with the property owner. Disposal sites will be finished with topsoil and revegetated. Where feasible, existing erosion areas will be selected for backfill and treatment.		
	(f) Subject to the Council's agreement, it is proposed to dispose of packaging material, general construction debris and all other waste at the Blayney waste disposal area. Where feasible, recyclable items such as metals, glass or timber will be separated and directed to an appropriate local facility. Any putrescible general waste material will be stored in sealed containers until it is removed from site.		
	(g) Disposal of sullage from any of the contractor's pump out toilet facilities will be to the local Blayney treatment plant or other suitable facility as agreed with Council.		
	(h) Any waste oil arising from equipment servicing will be stored in sealed containers in a covered and bunded area until it can be removed off site to a suitable waste oil facility.		

Issue or Section No.	Commitment	Responsible Party	Timing
Specific additional measu	res as indicated in specific sections of the Environmental Assessment		
Adjustments to design (Chapter 3)	FCWFPL's project design is based on the layout shown in Figure 1.4 and incorporates 44 turbines. The actual turbine model and number to be installed may vary slightly dependent on the final design site conditions. Micro-siting of individual turbine locations up to 100 metres is proposed, however any micrositing changes will be consistent with the project approval, otherwise a modification will be sought. Any such adjustment will take into account relevant sensitivities for the location and be subject to review by the EMR as to consistency with the Project Approval. The final design will be subject to Approval Authority review as part of the Construction Certificate Application process.	FCWFPL, EMR	As required but before construction commences on the particular sites
Cable routes (Chapter 3)	The cable routes will be generally between turbines and where practical will be located alongside access tracks to minimise site disturbance.	FCWFPL, Contractor	During construction
Facilities buildings (Chapter 3)	FCWFPL will require the design of the facilities and auxiliary services buildings to incorporate collection of roof drainage and have a small septic system or composting toilet that complies with Council requirements.	FCWFPL	Before construction commences on the facilities
Temporary Site Office (Chapter 3)	As part of the arrangements for construction, FCWFPL will confirm arrangements for the temporary construction site office. Options that have been considered for the location of the contractor's temporary site office are shown in Figure 1.4.	FCWFPL	Before construction commences on the site office
Concrete batch plant (Chapter 3)	If the project contractor wishes to install a temporary batch plant, the contractor will be required to select a suitable site distant from neighbouring residences, undertake environmental assessment and obtain landowner agreement and planning approval.	Contractor	If required
Access tracks (Chapter 3)	Permanent tracks will be located to achieve suitable grades on stable slopes and designed so that they will not exacerbate erosion at the site. As far as possible, their location will also be chosen to minimise visual impact from the surrounding countryside.	Contractor, EMR	During construction
	Earth batters on any tracks that are benched into slopes will be revegetated to prevent erosion and to reduce visibility of the constructed track.		

Issue or Section No.	Commitment	Responsible Party	Timing
Visual impact mitigation measures (Chapter 9)	Measures to further mitigate the visual impact that will be incorporated in the development will include:	Contractor, EMR	During construction
	Clearing of woodland vegetation will be minimised		
	Earthworks will be restored as soon as possible after construction		
	Underground cables will be installed between turbines within each of the turbine groups. Use of overhead lines will be limited to the connection of the southern collector group to the substation and other areas where underground cables are impractical		
	Cable trenches will be backfilled so that once restored they will have no visual impact. The choice of underground cables for the ridge top turbine locations instead of above ground transmission lines has been made to minimise the visual impact of the development.		
	The colour of the turbines is that commonly chosen to create a more desirable visual outcome		
	 If necessary, and with agreement of the relevant neighbouring landowners, tree planting could be undertaken on some of the closer neighbouring properties (within three kilometres of the wind farm) to screen parts of the development. The preferred types of plants for screening are local native varieties but it may be necessary to plant non-natives that are fast growing where expediency is essential or where property owners would prefer non-natives. 		
	The design and location of ancillary works will incorporate measures to reduce their visual impact. Screening of certain ancillary works, if required, can utilise vegetation planting at the location of the ancillary works		
	Access roads have been minimised and located to limit their visibility from neighbouring public areas and to minimise clearing of woodland. The construction methods will also aim to reduce the visibility of disturbed ground		
	Lighting would not be used during daylight hours unless visibility is reduced		
Delivery vehicles Chapter 13)	All vehicles delivering equipment, materials and personnel to the site during the construction stage will be registered vehicles that are required to maintain the necessary emission controls.	Contractor	During construction and operation
Telecommunication mitigation measures (Chapter 14)	The following mitigation measures are proposed in respect of potential impacts on existing communication services in the vicinity of the wind farm:	FCWFPL	Before construction commences
	Prior to construction FCWFPL will ensure that the final turbine layout is assessed in terms of their potential impact on fixed path radio links and the communications facility on Hope Hill. The design will ensure that these services are not disrupted or degraded. Where necessary, the relevant communication service operator will be contacted to confirm operational details. In particular, the siting of turbines will be undertaken with regard to the fixed path links passing through the wind farm site.		

Issue or Section No.	Commitment	Responsible Party	Timing
	Due to the possibility of interference to television signals once the wind farm is operational; it is proposed that Flyers Creek Wind Farm investigate the status of television reception at residences immediately surrounding the wind farm following its commissioning should analogue TV transmission be ongoing.	FCWFPL	Following commissioning of the wind farm
	 In the event that interference occurs as a result of the wind farm operation, then Flyers Creek Wind Farm Pty Ltd will rectify any interference that has been caused by the project development. 		
	 Rectification of reception could initially include modifications to, or replacement of the aerials being used at the proponent's expense. 		
	• In the event that the initial measures to rectify television reception are not satisfactory, other measures which could restore reception to the standard which existed prior to installation of the wind farm could include:		
	 the installation and maintenance of a parasitic antenna system; 		
	 provision of a land line between the affected receiver and an antenna located in an area of favourable reception; 		
	 installation of a digital set top box; or 		
	 in the event of interference to local channels not being able to be satisfactorily overcome by other means, negotiating an arrangement for the installation and maintenance of a satellite receiving antenna. 		
Aviation safety (Chapter 16)	Prior to erection of the wind turbines, final details of the height and location of each wind turbine will be provided by FCWFPL to CASA, Department of Defence and AirServices Australia. Where location details are provided prior to construction commencing then the 'as constructed' details will also be provided prior to the completion of turbine erection.	FCWFPL	