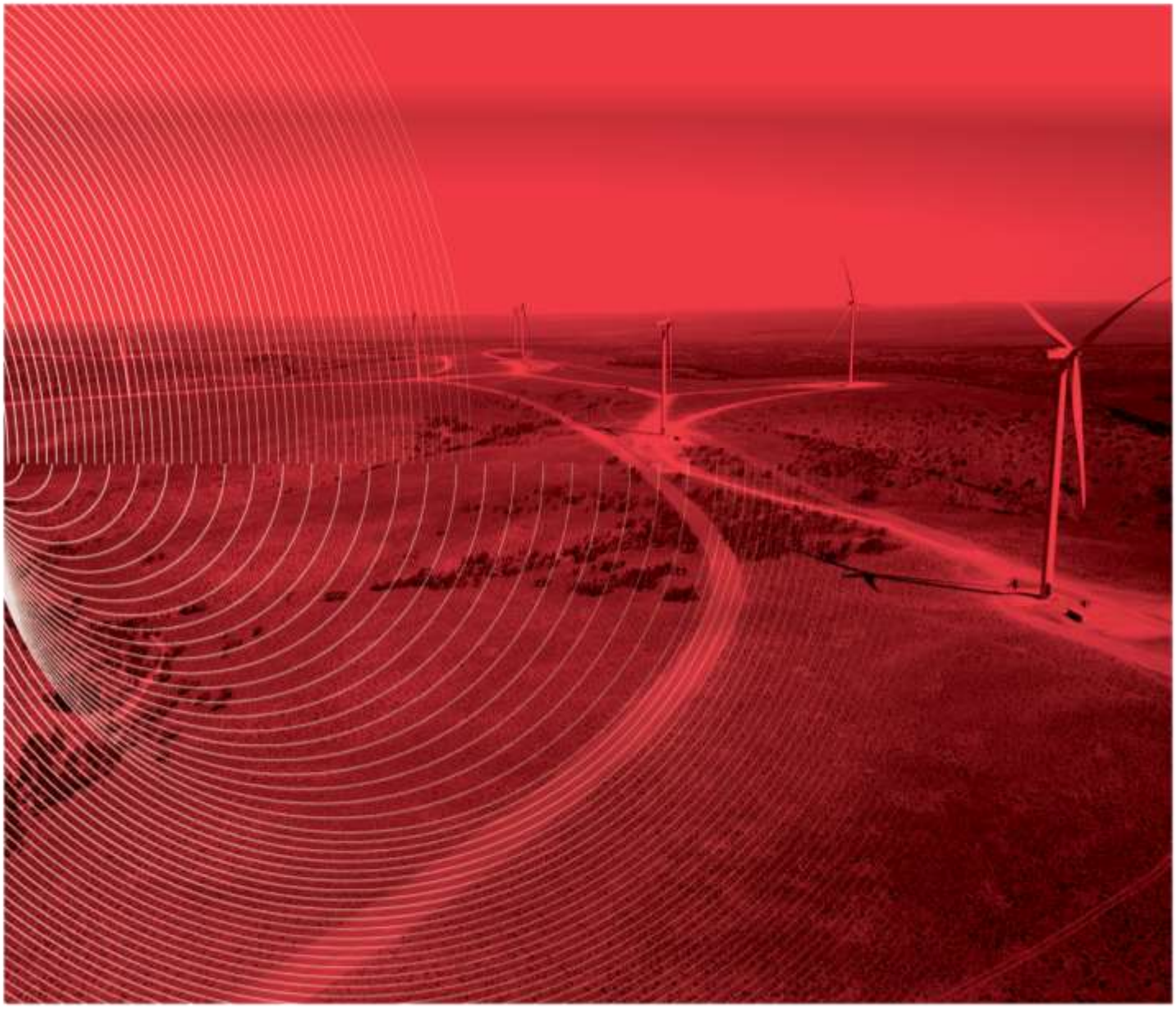
Prepared for Flyers Creek Wind Farm Pty Ltd by Nacap Pty Ltd

Flyers Creek Wind Farm Project

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

Document No.: 2046-LECH-001-2 | Revision: F



DOCUMENT CONTROL RECORD

Document prepared by:

Nacap Pty Ltd
ABN 33 006 306 994
Level 1, 601 Doncaster Road
Doncaster Vic 3108
Australia

T +61 3 8848 1888
W nacap.com.au

REVISION HISTORY

This table describes the primary reason for the production of each new revision after Rev 0

Date	Rev.	Reason for change

SIGNATURE BLOCK

Rev.	Description	*BR*	*BT*	*NF*		21st August 2020
F	**Issued for Approval**	**Prepared** Brett Rodgers	**Reviewed** Brian Treacy	**QA** Nic Fusca	**Approved** Peter Logan	**Approval Date**

The first Issued for Use version of this plan will start Revision 0. Revision numbers shall use a sequential numbering system commencing at Rev. 01, 02, etc.

This document is considered uncontrolled when printed.

Contents

ACTIVITY		DESCRIPTION	REFERENCES
PART A			
1.	**GENERAL INFORMATION**		
1.1	Purpose	The Flyers Creek Wind Farm (FCWF) is an approved 38 wind turbine wind farm located approximately 20 kilometres (km) south of Orange in the Blayney Shire and Cabonne Shire local government areas in Central West New South Wales. Project Approval was granted on 14th March 2014 (MP 08_0252) and there have been four subsequent planning modifications approved since this date. This Construction Environmental Management Plan (CEMP) has been prepared to satisfy the requirements of Condition F20 of the Project Approval and incorporates related Conditions of Approval (CoA) and relevant commitments from the FCWF Environmental Assessment (EA), 2011. The CEMP presents the framework for environmental management for the Project and includes 8 sub plans and associated environmental management measures. This CEMP has been prepared to ensure construction is carried out in accordance with project regulatory requirements, all relevant standards (including ISO 14001), procedures, resources and practices to ensure that all reasonable and practical measures to ensure that the activities across all works do not pollute the environment in a way which causes or may cause environmental harm. This CEMP adopts an integrated approach considering and identifying environmental management measures overarching the sequencing of construction related activities as well as detailing the environmental aspects and management measures specific to the project. This CEMP and sub-plans have been prepared to: • Comply with the Principal Project Approval Minister for Planning and Infrastructure No. MP 08_0252 dated 14th March 2014 and consolidated Conditions of Approval (CoA) dated 22nd August 2019; • Comply with all applicable legislation and regulatory requirements; • Comply with the Environmental Management Plan – Post Approval Guideline September 2018 DPIE; • Comply with the Australian and New Zealand environmental management international standard (AS/NZS ISO 14001); • Describe the construction of the project in detail, including activities to be undertaken and relative timing of each activity; • Identify and provide specific mechanisms for Project compliance with applicable policies, approvals, licences, permits, consultation agreements and legislation; • Describe the environmental management related roles and responsibilities; • Provide specific mitigation measures and controls that will be applied on-site to avoid or minimise adverse environmental impacts and how these will be managed; • State objectives and targets for issues that are important to the environmental performance of the Project; and • Describe how the management and mitigation controls will be monitored to ensure they are being adequately implemented.	-
1.2	Conditions of Approval	This Plan and its associated management sub plans have been prepared to comply with the following CoA: • F20 Construction Environmental Management Plan; and • F21 (a) to (h) Construction Environmental Management Sub Plans.	Project Approval (MP 08_0252) Section 4.3
1.3	CEMP Structure and relationship with sub plans	This CEMP comprises three sections: • **PART A:** Provides background information and the overarching systems approach to environmental management and mitigation controls for the project; • **PART B:** Comprising Appendices in support of PART A; and • **PART C:** Comprising the required series of environmental management sub-plans outlined in CoA F21 including: (a) Construction Compound and Ancillary Facilities Management Plan; (b) Construction Noise and Vibration Management Plan; (c) Construction Traffic and Access Management Plan; (d) Construction Soil and Water Quality Management Plan; (e) Construction Heritage Management Plan; (f) Construction Flora and Fauna Management Plan; (g) Construction Air Quality Management Plan; and (h) Bushfire Management Plan. The sub plans are structured to incorporate mitigation and control measures in meeting the project's environmental risk assessment and includes, construction Activity Specific Environmental Management Measures and Aspect Specific Environmental Management Measures, each of which identifies the following: • Environmental aspects;	-

ACTIVITY	DESCRIPTION	REFERENCES
	• Environmental performance objectives and standards; • Measurement criteria; • Management measures and responsibilities; • Compliance monitoring; and • Records.	

1.4 CEMP Subordinate Procedure and Forms	In support of this CEMP and environmental management measures outlined in Part 3, a range of subordinate documents, records and reporting will be developed by the contractor prior to commencement of works. The following list is not exhaustive but provides examples of typical documents to be used during construction:
	• Work Methodology Plans:
	  ○ Construction Execution Procedures (CEP) for each aspect of construction applicable to each construction crew. Each CEP will incorporate a section on the specific environmental consideration, controls, and monitoring specific to that aspect of work that the CEP covers; and
	  ○ A suite of Safe Work Method Statements (SWMS). SWMS's are prepared for all construction works activities and incorporate safety and environmental aspects and controls. SWMS Review Cards are also typically used during works to manage non-routine construction activities and for the management of day to day "change" i.e. process change, personnel change, environment change or equipment change (see also Section 5.4 Management of Change);
	• Environmental Sensitivity mapping (Environment Control Plans);
	• Progressive erosion and sediment control plans;
	• Procedures forms and other documents:
	  ○ Environmental Inspection Reports;
	  ○ Various registers in maintaining records relating to environmental and non-environmental activities for the duration of the project; and
	  ○ Project specific subordinate environmental procedures developed in accordance with the requirements for the work.
	• The contractor will also utilise a system, which acts as a project control gateway (known as a Pre-Commencement Requirements - Form 2) for each construction activity to commence. The Form 2 is a document reviewed and signed off by the various Project discipline leads and the Project Manager. This form is a pre-commencement gateway for each construction activity within a discrete section of works. The Form 2 is a key means of communicating to construction supervisors the environmental management controls for any given portion of the works. An example of a Pre-Commencement Requirements - Form 2 is included in Appendix A.
		Appendix A Pre-Commencement Requirements Form 2
		
		Section 5.4 Management of Change

1.5 Scope	The CEMP applies to all environmental aspects of the Project. The CEMP will inform Project Managers, Supervisors, Construction Personnel, Subcontractors and relevant stakeholders on the management of the Project Environment during construction activities. The CEMP forms part of the FCWF Construction Environment Management System and describes the mitigation and management measures and protocols derived from the Project EA. This management plan applies to the Construction phase of the works only.	-
1.6 Objectives and Targets	The Flyers Creek Wind Farm Project is committed to best practice environmental management, sustainability and minimising the environmental impact of its construction activities through: • Ensuring that all construction activities are planned and managed to minimise impacts and disturbance to stakeholders and the natural environment; • Compliance with all applicable environmental laws, client requirements and codes of practice; • Minimising waste generation, the consumption of resources, GHG emissions and encouraging recycling; • Applying environmental and sustainable management standards and best practice across all construction activities (including external contracts); • Ensuring that the contractors' personnel and subcontractors receive appropriate environmental and sustainability training and awareness; and • Establishing measurable performance targets as a means of continually monitoring and improving environmental performance. This commitment is underpinned by environmental documentation within the contractors corporate Environmental Management System, including policies, procedures and guidelines. The objectives and targets for the FCWF Project to be undertaken in relation to the Environment are listed in Table 1 Objectives and Targets. **Table 1 Objectives and Targets** **Objective** | **Target**	-

<table>
<tr><th>ACTIVITY</th><th>DESCRIPTION</th><th>REFERENCES</th></tr>
<tr><td></td><td>
<table>
<tr><td>Project construction activities do not cause harm to the environment and heritage</td><td>Zero harm to environment and heritage</td></tr>
<tr><td>Ensure all personnel, subcontractors and visitors are inducted, consulted and receive regular updates and information on project environmental aspects and impacts for duration of works.</td><td>100% Completion of Inductions
Daily Pre-Start Inputs by Environment Team
Monthly Toolbox Inputs by Environment Team</td></tr>
<tr><td>Ensure that personnel and subcontractors are aware of environmental hazards and risks associated with construction activities and relevant scope of work under the contract.</td><td>100% attendance recorded at SWMS workshops</td></tr>
<tr><td>To conduct construction activities in compliance with all relevant approvals and environmental legislation.</td><td>100% Compliance
No regulatory infringements, including PINS and prosecutions</td></tr>
<tr><td>Promote a positive reporting culture.
To minimise the occurrence and severity of environmental incidents during construction activities.</td><td>All environmental incidents to be reported within 2 hours and investigated appropriately.</td></tr>
<tr><td>Ensure all corrective actions are closed out by the nominated due dates</td><td>No corrective actions outstanding past due date >7 days</td></tr>
</table>
</td><td></td></tr>
<tr><td>1.7 Consultation</td><td>Consultation on this Plan will be undertaken with the following stakeholders:
• Blayney Shire Council;
• Cabonne Shire Council;
• Biodiversity and Conservation Division, Dubbo
• Lands Ministerials (Crown Lands); and
• Natural Resources and Access Regulator.

Comments and feedback received during consultation will be incorporated into the Plan where relevant before being submitted to the NSW Department of Planning, Industry and Environment (DPIE) for approval.
Consultation on the Construction Management Sub Plans will be undertaken with the relevant stakeholders and documented within the Sub Plan.
Details of the Consultation associated with this Plan are available in Appendix B.</td><td>Appendix B Consultation Record</td></tr>
<tr><td>1.8 Environmental Management Representative (EMR) Review of CEMP</td><td>This CEMP and associated Construction Management Sub Plans have been submitted and reviewed by the Project Approved Environmental Management Representative (EMR).</td><td></td></tr>
<tr><td>1.9 Certification and Approval</td><td>This CEMP and associated Construction Management Sub Plans are required to be submitted for approval by the Secretary of the DPIE at least one month prior to commencement of construction or as otherwise agreed by the Secretary.</td><td>-</td></tr>
<tr><td>1.10 Distribution</td><td>A controlled hard copy of this CEMP and supporting documentation will be maintained and reside at the Project construction site office. Registered copies of this CEMP and supporting documentation will be distributed to the Project team, the DPIE, all relevant personnel and interested third parties as required. It will also be available to view on the Project website: www.flyerscreekwindfarm.com</td><td>-</td></tr>
<tr><td colspan="3">2. DEFINITIONS AND ABBREVIATIONS</td></tr>
<tr><td>2.1 Definitions</td><td>
<table>
<tr><td>Accident</td><td>An undesired event that results in physical harm to a person or damage to property and / or environment (refer also to “Incident”).</td></tr>
<tr><td>Associated Residences</td><td>Any residence on privately owned land where the owner has reached a commercial or in-kind agreement with Flyers Creek Wind Farm Pty Ltd.</td></tr>
<tr><td>Audit</td><td>A systematic review of management systems being applied on the Project.</td></tr>
<tr><td>Client and or Proponent</td><td>Flyers Creek Wind Farm Pty Ltd (FLWFPL)</td></tr>
<tr><td>Contractor</td><td>The company contractually engaged by the Client to undertake the design, construction and commissioning of the project works.</td></tr>
<tr><td>Duty of Care</td><td>An obligation to ensure the health and safety of specified persons and the protection of the environment from damage.</td></tr>
<tr><td>EA</td><td>Flyers Creek Wind Farm Environmental Assessment (Aurecon, May 2011) as amended by:
(a) Preferred Project Report (prepared by Infigen Energy, dated May 2013) and associated Response to Submissions (prepared by Infigen Energy, dated May 2013) and Substation Plan (prepared by Infigen Energy, dated 17 July 2015);
(b) Modification Application 2 (prepared by Infigen Energy, dated 13 August 2015); and</td></tr>
</table>
</td><td>-</td></tr>
</table>

ACTIVITY	DESCRIPTION		REFERENCES
		(c) Modification Application 3 (prepared by Flyers Creek Wind Farm Pty Ltd, dated May 2017) and associated Response to Submissions (prepared by Flyers Creek Wind Farm Pty Ltd, dated August 2017) and Flyers Creek Wind Farm Pty Ltd's letter dated 30 October 2017; and (d) the documents submitted in support of the fourth application to modify the approval, including the Environmental Assessment dated July 2018, the Response to Submissions dated October 2018 and the Response to Submissions addendums dated November 2018 and December 2018.	
	ECC	An ecological community is a naturally occurring group of native plants, animals and other organisms living in a unique location. An ecological community may be listed as critically endangered if the Threatened Species Scientific Community (TSSC) determines it is facing an extremely high risk of extinction in Australia in the immediate future.	
	Environmental Aspect	An element of an organisation's activities or products or service that can interact with the environment.	
	Environmental Impact	Any change to the environment whether adverse or beneficial, wholly or partially resulting from an organisation's environmental aspects.	
	Form 2	The contractor utilise a system, which acts as a project control gateway (known as a Form 2) for each construction activity to commence. The Form 2 is a document reviewed and signed off by the various Project discipline leads and Project Manager. This form is a pre-commencement gateway for each construction activity within a discrete section of works. The Form 2 is a key means of communicating to the activity supervisor management controls for any given portion of the works.	
	Incident	A set of circumstances that: • causes or threatens to cause material harm to the environment; and/or • breaches or exceeds the limits or performance measures/criteria in this approval	
	Inspection	Review or check on the environment requirements being implemented.	
	Management Measure	Management Measures are in addition to those outlined within the CoA and are intended to assist in the mitigation and prevention of non-conformance against the CoA during the FCWF lifecycle.	
	Material harm to the environment	Is harm that: • Involves actual or potential to the health or safety of human beings or to ecosystems that is not trivial; or • results in actual or potential loss of property damage of an amount or amounts in aggregate exceeding $10,000 (such 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)	
	Non-Associated Residence	Any residence on privately owned land where the owner has not entered into a commercial or in-kind agreement with FCWFPL.	
	Obligation	A legal relationship between two entities in which one entities' right is the other entities' duty.	
	Project	Flyers Creek Wind Farm	
	Pre-Start Meeting	Individual work crews discuss the day's activities prior to the commencement of work for the shift / day.	
	Regulatory Requirements	Government acts and regulations that are environment specific which prescribe legal obligations encompassing the client and contractor and amongst other things, registration of projects and plant, certificates to operate machinery and undertake certain trades and notification of injuries.	
	Statement of Commitments	Commitments outlined in Chapter 19 of the Project Environmental Assessment	
	Threatened Species	Plants and animals are assessed if they are at risk of extinction. If the risk is high, they are listed in legislation and conservation actions are developed for their protection. A species is considered threatened if: There is a reduction in its population size, it has a restricted geographical distribution, or there are few mature individuals.	
2.2 Abbreviations and Acronyms	AS/NZS	Australian Standard/New Zealand Standard	-
	BCD	Biodiversity and Conservation Division (previously OEH – Office of Environment and Heritage)	
	BMP	Bushfire Management Plan	
	CAQMP	Construction Air Quality Management Plan	
	cBOP	Civil Balance of Plant	
	CCAFMP	Construction Compound and Associated Facilities Management Plan	
	CEMP	Construction Environmental Management Plan (this document)	
	CEP	Construction Execution Procedures	
	CFFMP	Construction Flora and Fauna Management Plan	
	CHMP	Construction Heritage Management Plan	

ACTIVITY	DESCRIPTION		REFERENCES
	CNVMP	Construction Noise and Vibration Management Plan	
	CSWQMP	Construction Soil and Water Quality Management Plan	
	CTAMP	Construction Transport and Access Management Plan	
	CTP	Compliance Tracking Program	
	CoA	Conditions of Approval	
	DECC	Department of Environment and Climate Change (now DPIE)	
	DoI L&W	Department of Industry Lands and Water	
	DPIE	Department of Planning, Industry and Environment	
	EA	Environmental Assessment	
	eBOP	Electrical Balance of Plant	
	EEC	Endangered Ecological Community	
	EMR	Environmental Management Representative	
	EP&A	Environmental Planning and Assessment	
	EPA	Environmental Protection Authority	
	EPC	Engineering, Procurement and Construction (Contract(or)	
	EPL	Environmental Protection Licence	
	ERP	Emergency Response Plan	
	ESA	Environmentally Sensitive Areas	
	FCWF	Flyers Creek Windfarm Pty Ltd	
	GE	General Electric Renewable	
	GHG	Green House Gas	
	GPS	Global Positioning System	
	ISO	International Standards Organisation	
	NRAR	Natural Resources Access Regulator (previously Department of Industry, Land and Water)	
	LECH	Lands Environment and Cultural Heritage	
	PINS	Provisional Improvement Notice	
	SSD	State Significant Development	
	SWMS	Safe Work Method Statement	
	TSSC	Threatened Species Scientific Community	
	WAL	Water Access Licence	
3. PROJECT INFORMATION			
3.1 Project Background and Description	Flyers Creek Wind Farm Pty Ltd (FCWFPL) (the Proponent) forms part of the Infigen Energy corporate group (Infigen). Infigen is a developer, owner and operator of generation assets delivering energy solutions to Australian businesses and large retailers. The FCWF is an approved 38 wind turbine wind farm located approximately 20km south of Orange NSW. The Project is located predominantly in the Blayney Shire local government area with part of the proposed 132 kilovolt transmission line and switching station being located in Cabonne Shire Council local government area. Refer to Appendix C showing the Regional Location of the FCWF. Project approval MP 08_0252 was granted under Part 3A of the Environmental Planning and Assessment Act 1979 (NSW) (EP&A Act) to the Proponent for the Project by the NSW Planning and Assessment Commission on 14th March 2014. The Project Approval has been modified 4 times since originally being granted and was transitioned to State significant development (SSD) on 6th July 2018. The Project approval authorises the construction and operation of a wind farm and associated infrastructure including access tracks, local road infrastructure upgrades and electrical connections between the turbines (underground cable reticulation, also underground and aboveground powerlines), an on-site substation (inclusive of switch room, control room and auxiliary services building) and a 132-kilovolt transmission line and switching station to connect the Project to the grid. The preliminary microsited project layout plan is provided in Appendix D. The approved wind turbines have been renumbered to ensure consecutive numbers across the site for ease of design, construction and operation of the wind farm. Appendix E details the approved turbine number and the revised turbine numbers which will be used in all documentation from here on in.		Appendix C Regional Location Appendix D Preliminary Project Layout Appendix E Revised Wind Turbine Numbering

ACTIVITY	DESCRIPTION	REFERENCES
3.2 Construction Activities and Program	Commencement of construction is scheduled to commence early 2021. It is expected that the Wind Farm will operate for 30 years and will be decommissioned at the end of its operational life. Construction Project activities will be split into three phases: 1. Preparatory Works • Building/road dilapidation surveys • Investigative drilling, excavation or salvage • Minor clearing of native vegetation • Establishing temporary site offices • Installation of environmental impact mitigation measures, fencing, enabling works, wind monitoring masts, and • Minor access roads and minor adjustments to services/utilities etc. 2. Wind Farm Construction • On-site civil works for internal access roads, crane hardstands, laydown areas, wind turbine foundations, cable trenches and power pole installation • Site access intersection upgrades • Transport of WTG components to the project site • Installation of WTG components • Construction of electrical substation, switching station and operations and maintenance compound • Construction of electrical transmission lines and cable reticulation network, and • Restoration and revegetation of disturbed areas. 3. Decommissioning • Restoration Table 2 Below outlines the general construction methodology, plant and equipment. Construction would be conducted in accordance with standard construction hours outlined CoA F3 and F4. • 7.00am to 6.00pm Mondays to Fridays • 8.00am to 1.00pm Saturdays, and • No time on Sundays or public holidays Requirements for Out of Hours Works (OOHW) and a protocol for conduct of OOHW is discussed in detail in the Construction Noise and Vibration Management (CNVMP) subplan. Construction works will be undertaken (subject to approval of all documentation) in accordance with the construction schedule which is to be determined during detailed design. It is envisaged that works will be ongoing from commencement for a period of around 18 -24 months. Following construction, it is expected that the FCWF will operate for 30 years and will be decommissioned at the end of its operational life. **Table 2 Construction activities** Activity / Summary of Works Site Establishment — Establishment of temporary site offices and laydowns Environmental Controls — Progressive installation of environmental controls including temporary or permanent fencing to establish exclusion and 'No Go Zones' in the protection of environmental sensitivities. Access roads and hardstands — Construction of internal access roads to WTG sites Cut to fill to design and geotechnical and topographical conditions. Excavated topsoil be stockpiled for site rehabilitation. Excavation and compaction of crane hardstands and laydown Drainage line crossings will be upgraded as required including widening of culverts or installing new culverts including scour protection Upgrade and construction of bed level crossings where required. Turn in Turn Outs — Temporary traffic management arrangements Construction and sealing and widening of the nominated entry/exit points Road Upgrades — Temporary traffic management arrangements Existing local roads will be used by construction vehicles for delivery of wind farm components and materials All roads identified as needing upgrading for construction access will be constructed to relevant engineering standards. Meteorological monitoring masts — Clearing and construction of concrete footings, erection of mast with supporting guy wires, and installation of monitoring equipment. Batch Plant — Clearing and construction of laydown and access for Batch Plant	-

ACTIVITY	DESCRIPTION		REFERENCES
		establishment and operation Preparation of temp access and links to internal access for receiving of materials deliveries and movement of concrete outbound to foundation sites	
	Construction of footings	Clearing and removal of topsoil for storage and re-use during restoration of temp disturbance and covering of constructed footing Excavation of subsoil and rock at each turbine location, Excavation and preparation of foundations to geotechnical conditions Steel fixing of reinforcement and concrete pours	
	Construction of Substation, Switching Station and O&M Compound	Site survey, clearing and levelling, foundations and fencing Erection and fit-out of control buildings Installation of transformers, busbars, earthing system etc.	
	Wind Turbine Generators (WTGs)	Each turbine will be manufactured offsite in sections and assembled on-site. Installation of wind turbine generators, materials, and equipment will be delivered to the site by restricted access vehicles where necessary	
	Tower and WTG Erection	Delivery of tower and turbine components (tower sections, turbine blades, generator/nacelle assembly) Tower erection and nacelle installation Rotor assembly and installation Electrical connections and commissioning	
	Electrical infrastructure: underground cables	Underground cabling, comprising power and control cables to be buried in trenches of approximately 1 m in depth and 0.5 - 0.75 m in width. In some locations, wider trenches may be required where two cables are located side by side. Backfill trenches as soon as practicable with the excavated materials Temporary access tracks will be located alongside trenches for access during trenching and cable installation.	
	Electrical infrastructure: overhead lines	Clearing and establishment of laydowns for poles, cable and plant Clearing and construction of foundations for poles Erection of poles and stringing of cables	
	Grid Connection	High voltage connections and commissioning System energisation and turbine connection	
	Restoration and revegetation of disturbed areas	Decommissioning of construction facilities (compound site, batching plant, laydown areas, access tracks, etc.) Rehabilitation of areas disturbed during construction phase.	
	Plant and Equipment	The following plant and equipment are expected to be utilised during the execution of construction activities described above: • Excavators and Graders • Loaders • Scrapers • Trucks / semi-trailers • Concrete Agitators • Rollers • Water carts • Rock breaker • Mobile Crushing • Batch Plant • Power tools • Trenchers • Chainsaws • Mulchers • Cranes • Concrete pumps and vibrators • Form work • Steel work • Delivery vehicles • Light Vehicles • Underboring/Mini HDD • Dewatering pumps	

In support of construction activities, the following compounds and ancillary facilities will be provided. A Construction Compound and Ancillary Facilities Management Plan (CCAFMP) has also been prepared and provides additional details regarding:

- Construction Site Compounds, satellite offices and laydown areas
  - Temporary Office for Project personnel
  - Amenities
  - Car Parking
  - Toilet Facilities
  - Laydown for safe storage of plant, equipment and materials
- Concrete Batch Plant
- Other Materials Stockpiles and Laydowns

Following construction, all temporary facilities will be removed and all disturbed areas restored and revegetated to the satisfaction of the landholder.

Below is an indicative program duration for the construction works, construction works will be

ACTIVITY	DESCRIPTION	REFERENCES
	undertaken (subject to approval of all documentation) concurrently in accordance with the construction schedule which is to be determined during detailed design. It is envisaged that works will be ongoing from commencement for a period of around 18 to 24 months.	

Activity	Duration (Weeks)	*Start Date
Early Works	4	February 2021
Collector Group 1 – Construct Access Points	14	March 2021
Collector Group 1 – Access Road Construction	22	March 2021
Collector Group 1 – Crane Hardstand Construction	18	April 2021
Collector Group 1 – Turbine Foundations	20	May 2021
Collector Group 1 – Backfill Foundation	9	June 2021
Collector Group 1 – Cable Reticulation	22	May 2021
Collector Group 2 – Construct Access Points	18	April 2021
Collector Group 2 – Access Road Construction	16	April 2021
Collector Group 2 – Crane Hardstand Construction	15	May 2021
Collector Group 2 – Turbine Foundations	23	June 2021
Collector Group 2 – Backfill Foundation	11	July 2021
Collector Group 2 – Cable Reticulation	18	June 2021
Collector Group 3 – Construct Access Points	8	June 2021
Collector Group 3 – Access Road Construction	7	June 2021
Collector Group 3 – Crane Hardstand Construction	8	July 2021
Collector Group 3 – Turbine Foundations	15	August 2021
Collector Group 3 – Backfill Foundation	7	September 2021
Collector Group 3 – Cable Reticulation	14	August 2021
Delivery Turbines and Towers	6	May 2021
Turbine Installation	16	May 2021
33KV Overhead Line Foundations	29	July 2021
33KV Trenching and Underground Cable Installation	25	July 2021
132KV Overhead Line Foundations	29	May 2021
132KV Trenching and Underground Cable Installation	19	June 2021
Substation Bench Works	12	May 2021
Switching Station Bench Works	10	June 2021
Commissioning	16	February 2022
Practical Completion	0	June 2022

*Start Date is indicative

3.3 Environmental Sensitivities	The following environmental sensitivities and constraints have been identified during the EA and subsequent planning modification assessments and have been used during the micrositing of the final wind farm layout.: • Endangered Ecological Communities (EEC) habitats; • Vegetation requiring protection e.g. Hollow bearing and Paddock trees; • Known Aboriginal sites; • Known historic heritage sites, including the Hopkins Trig Station; • Drainage lines and watercourses, wetlands and natural springs; • Project boundaries / approved construction boundary; • APA Gas Pipeline and existing Telcoms; and • Sensitive residential receivers.	
4. ENVIRONMENTAL PLANNING		
4.1 Legal and Other Requirements	Compliance with environmental planning regulatory obligations is essential for successful and lawful completion of the works. This CEMP outlines how Project personnel will undertake measures to manage all environmental impacts, in compliance with all relevant environmental legislative requirements. A register of legal and other requirements for the Project is contained in Appendix F. This register will be reviewed prior to commencement of construction as part of the preparation of this CEMP, at regular intervals during construction and at least annually as part of the management review and updated with any applicable changes. The contractor will maintain a subscription to an environmental legislation update service which is maintained to enable timely changes to the environmental management system when changes to environmental legislation are affected. Any changes made to the legal requirements register will be communicated to the project team where necessary through toolbox talks, specific training and other methods detailed in Section 7. The contractor also maintains a subscription to SAI Global, the online service of Standards Australia, so that all staff can access the latest and relevant standards as required.	Appendix F Legal and Other Requirements

ACTIVITY	DESCRIPTION	REFERENCES
4.2 Conditions of Approval F20 and F21(a-h)	This Plan has been prepared to comply with the consolidated CoA, dated June 2019 and specifically the requirements of CoA F20 and F21 (a-h) as listed in Table 3 Conditions of Approval.	

Table 3 Conditions of Approval

CoA	Condition	Refer to Section within This Plan
F20	*Prior to the commencement of construction, or as otherwise agreed by the Secretary, the Proponent shall prepare and implement (following approval) a Construction Environmental Management Plan for the Project. The Plan shall outline the environmental management practices and procedures that are to be followed during construction, and shall be prepared in consultation with the relevant government agencies (including the Councils). The Plan shall include, but not necessarily be limited to: (refer to F20 a-e below).*	This Plan
F20 (a)	*a description of activities to be undertaken during construction of the Project (including staging and scheduling);*	Part A Sect 3.2
F20(b)	*statutory and other obligations that the Proponent is required to fulfil during construction, including approvals / consents, consultations and agreements required from authorities and other stakeholders under key legislation and policies;*	Part A Sect 4.1 Sect 4.2
F20(c)	*a description of the roles and responsibilities for relevant employees involved in the construction of the Project, including relevant training and induction provisions for ensuring that employees, including contractors and sub-contractors are aware of their environmental and compliance obligations under these Conditions of Approval;*	Part A Sect 6.0 Sect 7.0
F20(d)	*an environmental risk analysis to identify the key environmental performance issues associated with the construction phase;*	Part A Sect 5.3 Appendix G
F20(e)	*details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts (including any impacts arising from the staging of the construction of the Project). In particular, the following environmental performance issues shall be addressed in the Plan:* *i. compounds and ancillary facilities management;* *ii. noise and vibration;* *iii. traffic and access;* *iv. soil and water quality and spoil management;* *v. air quality and dust management;* *vi. management of Aboriginal and non-Aboriginal heritage;* *vii. soil contamination, hazardous material and waste management;* *viii. management of ecological impacts; and* *ix. hazard and risk management.*	Part A Sect 5.3 Part C Appendix G
F21	*As part of the Construction Environmental Management Plan for the Project required under condition F20 the Proponent shall prepare and implement*	Part A Part C
F21(a)	*Construction Compound and Ancillary Facilities Management Plan*	Part C
F21(b)	*Construction Noise and Vibration Management Plan*	Part C
F21(c)	*Construction Traffic and Access Management Plan*	Part C
F21(d)	*Construction Soil and Water Quality Management Plan*	Part C
F21(e)	*Construction Heritage Management Plan*	Part C
F21(f)	*Construction Flora and Fauna Management Plan*	Part C
F21(g)	*Construction Air Quality Management Plan*	Part C
F21(h)	*Bushfire Management Plan*	Part C

ACTIVITY	DESCRIPTION	REFERENCES
5. ENVIRONMENTAL MANAGEMENT SYSTEM		
5.1 Environmental Management Systems Framework	The contractor will operate under an ISO accredited Management System which is a suite of quality assurance plans, policies and procedures that establish the framework for all quality related activities within the respective organisations. This CEMP identifies the following criteria aligned with the fundamental requirements of ISO 14001:2015 aimed at achieving continuous improvement: o Environmental Policy; o Environmental objectives; o Environmental aspects, impacts and risk assessment measurement and evaluation; o Management of Change; and o Management review.	-
5.2 Environmental Policy	The contractor shall maintain an up to date Environmental policy, which will be made available in all Project offices.	-
5.3 Environmental Aspects, Impacts and Risk Assessment	The Project risk management process based on Australian Standard AS / NZ ISO 31000 ensures risk identification, mitigation and control assessment addresses all pre-construction related activities adopting a best practice approach in accord with the Plan – Do – Check – Act model. Risk identification and mitigation planning shall commence prior to the commencement of works and incorporate consideration of the Environmental Assessment input documentation that informed the Principal Approval up to and including Modification 4 for the Flyers Creek Windfarm Project, including but not limited to, relevant project environmental management assessment reports and project environmental studies. These required input documents are used to identify and evaluate environmental risks associated with discrete construction tasks and recorded in the Project Aspects and Impacts Register, refer to Appendix G. This register will be used to develop and assign control actions into Project management plans and subordinate documentation.	Appendix G Aspects and Impacts Register
5.4 Management of Change	The Project is committed to undertaking a review or assessment of all tasks prior to commencing to identify changes to: o People – someone new or has someone left the work crew; o Plant/Equipment – new plant/equipment introduced or removed from activity; o Process – scope or work method; and o Physical Environment – weather or terrain. Ensure that changes are communicated to personnel, environmental hazards and controls are recorded on Site Work Method Statement (SWMS) or SWMS review card and signed off by all involved in the task.	-
6. ENVIRONMENTAL MANAGEMENT RESPONSIBILITIES		
An Organisation Chart will be developed prior to the commencement of construction. Position descriptions describe the responsibilities specific to positions on the Project.		-
6.1 Project Director (Management Representative)	The Project Director shall ensure environmental leadership and that adequate, competent and experienced resources are provided and supported in the implementation of this CEMP.	-
6.2 Project Manager	• Provide support and guide the implementation of this CEMP and associated controls; • Provide Management, Leadership and implementation of this CEMP; • Ensuring adequate resources are provided for implementing and maintaining environmental controls and mitigation measures; • Take action including the stopping of work in response to natural events such as weather and bushfire which may impact on the environmental performance objectives, standards and commitments contained in this CEMP; and • Take action in the event of an environmental emergency and allocate the required resources to minimise environmental impact.	-

ACTIVITY		DESCRIPTION	REFERENCES
6.3	Lands, Environment and Cultural Heritage (LECH) Manager	• Development and preparation of all environmental plans and procedures to support construction; • Provide support and guide the implementation of this CEMP and associated controls; • Providing environmental input and support of construction and associated methodologies; • Arranging Environmental monitoring and training in support of the project as required; • Identifying that all necessary Contractor environmental approvals and permits have been obtained; • Support and guide site environmental incident investigation and reporting; and • Review of internal and external project audits and co-ordinating the implementation of audit recommendations.	-
6.4	Environment Coordinator	• Providing lead and support of construction and associated methodologies to ensure implementation and compliance of commitments contained in this CEMP; • Providing and coordinating inspections and audits of works; • Providing and coordinating site based training preparation and delivery; • Routine record keeping and reporting in support of commitments in this CEMP; • Reporting of hazards and incidents and implementing any rectification measures; and • Provide site based environmental incident investigation and reporting and corrective action management.	-
6.5	Project Supervisors	• The implementation of commitments contained in this CEMP; and • Reporting of hazards and incidents and implementing any rectification measures.	-
6.6	Subcontractors	• Subcontractors engaged to perform works on behalf of the contractor, shall operate in accordance with all applicable legislation, the contractor's procedures and this CEMP. • Subcontractors are required to report all incidents to their Supervisor immediately.	-
6.7	All Project Personnel and Visitors	• All project personnel and visitors shall uphold a general environmental duty to take all reasonable and practical measures to ensure that the activities on the whole site do not pollute the environment in a way which causes or may cause environmental harm.	-
7.	**TRAINING AND AWARENESS**		
7.1	Inductions, Training and Awareness	All personnel and subcontractors shall have training appropriate to their involvement in construction works activities consisting of: ○ Project Specific Environmental Induction; ○ Project CEMP; ○ Job specific Environmental Training and/or Competency for the operation of plant and equipment (skill specific); and ○ Continuing Environmental Awareness during works.	-
7.2	Environment Inductions	All construction personnel shall complete Project specific environmental induction prior to undertaking any works on the site. Topics to include: ○ respecting landholder and third-party requirements; ○ the requirement to minimise impacts to flora and fauna; ○ Aboriginal Cultural Heritage issues; ○ Non-Aboriginal Cultural Heritage issues; ○ use of designated access roads and adherence to speed limits for dust control reasons; ○ exclusion zones and Environmental Sensitive Areas (ESAs); ○ erosion and sediment control; ○ air and water quality; ○ noise and vibration; ○ waste management; ○ emergency response; ○ spill management and response; ○ weed control; and ○ For high environmental risk activities, the induction will be augmented by a discussion of the key management measures and reportable incidents for the activity as contained in this CEMP.	-
7.3	Environment Training	In addition to Project Inductions, job specific Environmental Training and/or Competency for the operation of plant and equipment (skill specific) will be completed. A record of all training and attendees will be maintained in the induction and training register. For high environmental risk activities, the inductions will be augmented by a discussion of the key management measures and reportable incidents for the activity as contained in this CEMP. An induction register will be maintained.	-

ACTIVITY		DESCRIPTION	REFERENCES
7.4	Environmental Awareness	Ongoing environmental awareness will be provided to all project personnel and subcontractors for the duration of works and will include but not be limited to: o CEMP; o SWMS Workshops; o Daily Pre-Starts; o Monthly Tool Boxes; o Targeted Flora and Fauna awareness and mitigation (pre-start alerts); and o Noticeboards.	-
8.	**ENVIRONMENTAL INCIDENTS AND EMERGENCIES**		
8.1	Environmental Emergency Management	The LECH Manager is responsible for Incident management and response ensuring appropriate environmental responses and controls are implemented. This will entail on site liaison with the relevant crew(s) and provision of verbal advice to both respond to the incident and advise on any amended work practices required to avoid repeat occurrences. Environmental emergency response requirements and communication processes shall be detailed in the Project Emergency Response Plan. The Emergency Response Plan shall be developed prior to the commencement of construction.	-
8.2	Environmental Incidents	In the event of an environmental incident a first reporting step will be the provision of a Heads-Up Notification (an Initial Report and Notification via email) detailing brief facts about the incident to be circulated to an agreed list of Project management personnel and Flyers Creek Wind Farm Pty Ltd project personnel. This will be done as soon as practicable but no later than two (2) hours after the incident. The subsequent Incident Report will include: o Date, time and location details; o Incident Classification and the type of environmental impact including water, air, land, noise or waste management; o A description of the incident and root cause; o Whether the incident relates to contaminant spill or release and if so the type and approximate quantity of the release; o Specific details and sources if relating to fires; o Whether the incident resulted in regulatory Non-Compliance or security breaches; o Actions for resolution / close out; and o Corrective actions to assist in preventing recurrence. The Proponent shall provide notification to the Department (DPIE), in writing, immediately after the Proponent becomes aware of an incident - that is a set of circumstances that causes or threatens to cause material harm to the environment and/or breaches or exceeds the limits or performance measures/criteria in the approval. Upon completion of an investigation, the findings and recommendations shall be distributed to the relevant work crews for discussion at prestart meetings. If the root cause analysis provides justification for amended work practices or processes a review and reissue of relevant documents (such as SWMS and Form 2) will be undertaken.	-
9.	**COMMUNICATION, CONSULTATION AND COMPLAINTS**		
9.1	Regulatory Consultation and Communication	All communication with any Regulator associated with the Project will be directed through the Project Manager who will liaise with the Flyers Creek Wind Farm Pty Ltd Representative to identify the required support and response requirements. A Community and Stakeholder Communication Protocol for the construction phase of the project for the project has been developed. Refer to Appendix H.	Appendix H Community and Stakeholder Communication Protocol
9.2	Stakeholder and Community Consultation and Communication	Regular consultation with the community and landholders is expected to be undertaken during construction activities. All significant stakeholder/landholder issues not readily resolved by construction personnel shall be directed to the Supervisor who will notify the Project Manager. It should be noted that the vast majority of day-to-day issues raised verbally by landholders and stakeholders that relate to inconveniences arising from construction activities will be able to be resolved by discussion with the contractor's construction personnel.	-
9.3	Internal Communications	The immediate day-to-day responsibility for communication lies with the Site Project Management Team.	-

ACTIVITY	DESCRIPTION	REFERENCES
	The following internal communication forums will occur during the execution of works: • Inductions; • SWMS Workshops; • Daily Pre-start meetings; • Field based awareness talks regarding specific aspects and known heritage sites; • Regular toolbox meetings (project workforce); and • Weekly construction management team meetings.	
9.4 External and Third Party Communications	Regular communication with stakeholders/landholders will be undertaken during construction activities. All significant stakeholder/landholder issues not readily resolved by construction personnel shall be directed to the Supervisor who will notify the Project Manager. Issues requiring dispute escalation will be referred to the FCWFPL Representative.	-
9.5 Media Protocol	If any Project personnel have any contact with a media representative, they will: • Respond in a polite and courteous manner, and • Inform the media representative that they are not the authorised spokesperson and provide contact details of the Flyers Creek Wind Farm Pty Ltd Project spokesperson or media contact	-
9.6 Complaints Management	Should there be a complaint from a landholder or stakeholder, the details shall be entered into the Project Complaints Register for monitoring of appropriate close-out and resolution. The Proponents representative (Proponent Site Manager) will be notified within 2 hours of receiving a complaint. The following details will be recorded and provided to the Proponents Representative: • Name, address and contact details of the complainant; • Details of the complaint; and • Corrective actions A report will be provided to Flyers Creek Wind Farm Pty Ltd within 24 hours. Complaints from the broader community will also be referred to Flyers Creek Wind Farm Pty Ltd or advised to lodge details via the online Project Complaints Management System. In this regard, the broader community is defined as individuals or organisations not directly affected by the construction process undertaken by the Project.	-
10. ENVIRONMENTAL INSPECTIONS, MONITORING, AUDITS AND REVIEW		
10.1 Environmental Inspections and Monitoring	The LECH Manager (or delegate) shall coordinate environmental inspections and monitoring of works during the conduct of construction activities to check and record compliances with works procedures and this CEMP. At a minimum, the active works areas will be inspected weekly and observations recorded on the Environmental Inspection Report (Appendix I). Activity or aspect specific monitoring will be conducted on an as needed basis as specified in the relevant Subplan in Part C of this CEMP. Instruments, equipment or measuring devices used in the monitoring of works will be calibrated, operated and maintained effectively in the field by the project team. Any laboratory analyses will be conducted by a NATA certified laboratory. Monitoring records will be provided to the Proponent where required to assist with reporting procedures arising from environmental approvals and associated consent conditions. Activity or aspect specific monitoring will be conducted on an as needed basis as specified in Part 3 Subplans. Refer to Appendix I for the proposed environmental inspection report to be used during construction.	Appendix I Environmental Inspection Report
10.2 Audits	Internal environmental audits shall be conducted by non-site based personnel at an agreed frequency during performance of the works. It would be proposed that an initial audit be completed within 6 weeks of site establishment and every 6 months thereafter during the duration of the works. It is envisaged that the Proponent and or regulatory authorities may undertake environmental auditing to include Environment during the performance of the works. Where deficiencies are observed or corrective actions, the person responsible for the corrective action, and timing for correction to be completed shall be noted in the audit records sheet and confirmation of close out will be undertaken in any subsequent monitoring/inspection/audit. All corrective actions will also be recorded in the Corrective Actions Register.	-
10.2.1 Independent Audits	CoA E8 states that within 1 year of the commencement of construction, and every 3 years thereafter, unless the Secretary directs otherwise, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the project. This audit must: • be prepared in accordance with the relevant Independent Audit Post Approval Requirements (DPIE 2018, or its latest versions), • 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,	-

ACTIVITY	DESCRIPTION	REFERENCES
	• assess the environmental performance of the project and whether it complies with the relevant requirements in this approval, • review the adequacy of any approved strategy, plan or program required under the abovementioned approval, and • recommend measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under this approval.	
10.3 Non-Compliances	Any non-compliance with this CEMP or the CoA during the execution of construction activities will be reported regardless of whether it results in any impacts or harm. Non-compliances will be reported to the FCWFPL representative within 1 hour outlining factual information regarding the non-compliance. For Non-Compliance with the CEMP, the information is to include: • Identification of the section of the CEMP t the project is not compliant with • The way in which it does not comply, and • The reasons for the non-compliance (if known) and what actions have been done or will be undertaken to address the non-compliance. For Non-compliance with a CoA, the information I to include: • Identification of the CoA that the project is not compliant with • The way in which it does not comply, and • The reasons for the non-compliance (if known) and what actions have been done or will be undertaken to address the non-compliance. The Department (DPIE) is no longer accepting lodgement of post approval and compliance documents and notifications via compliance@planning.nsw.gov.au. Projects/proponents are requested/directed to submit all post approval and compliance documents online via the Major Projects Website.	-
10.4 Compliance Tracking Program	A Compliance Tracking Program (CTP) will be developed for the project under CoA E5 to track compliance with the requirements of this Approval. The Project will provide the required support and information to track and report on the compliance status of all construction related CoA. The CTP contains: • Provisions for the notification of the Secretary prior to the commencement of construction and prior to the commencement of operation of the Project (including prior to each stage, where works are being staged), • Provisions for periodic review of the compliance status of the Project against the requirements of this Approval, • Provisions for periodic reporting of compliance status to the Secretary, including a Pre-Construction Compliance Report, during construction reporting, and a Pre-Operation Compliance Report, • A program for independent environmental auditing in accordance with ISO 19011:2003 - Guidelines for Quality and / or Environmental Management Systems Auditing, • Mechanisms for recording environmental incidents during construction, and actions taken in response to those incidents, • Provisions for reporting environmental incidents to the Secretary and relevant public authorities (including Blayney Shire Council) during construction and for the life of the Project, • Procedures for rectifying any non-compliance identified during environmental auditing, and review of compliance or incident management, and • Provisions for ensuring all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this Approval relevant to their respective activities.	-
10.5 Corrective Actions	Corrective actions to prevent the recurrence of an incident or environmental non-conformance shall be identified, assigned, implemented and tracked within the Corrective Actions Register. Details of the incident or non-compliance shall be recorded in the Incident Register.	-
10.6 CEMP Review	A review of this CEMP will be undertaken whenever there are changes in the scope of work, subsequent changes to construction methodologies, following harm to the environment and any non-conformance with this plan. The CEMP will also be reviewed in accordance with CoA E11 Revision of Strategies, Plans and Programs. Within three years of the commencement of the operation of the Project, or within three months of the submission of an: • Incident under CoA E6 Incident Notification • Audit under condition E8, and • Any modification to the conditions of this approval, The proponent shall review, and if necessary, revise the strategies, plans and programs required under this approval to the satisfaction of the Secretary. Any updates to the CEMP will be required to be approved by DPIE in accordance with CoA F20. A copy of the updated plan and changes will be distributed to all relevant stakeholders and regulatory authorities.	-

ACTIVITY	DESCRIPTION	REFERENCES
10.7 Continuous Improvement	This CEMP will be subject to ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for continual improvement. The continuous improvement process will include: • Identification of opportunities for improvement of environmental management and performance, • Identification through incident investigation the cause or causes of non-conformance, • Development of corrective and preventative measures to address non-conformance and process deficiency, • Assessment of the effectiveness of corrective actions, and • Documentation and communication of change and process improvements. Any updates to the CEMP will be required to be approved by DPIE in accordance with CoA F20.	-
11. REPORTING AND RECORD KEEPING		
11.1 Record Keeping	The Project shall maintain a documentation and record system in support of this CEMP and monthly Project HSE reporting requirements to enable review and auditing of environmental management systems and procedures. The following records are expected to be generated through the delivery of the project and as guided by this CEMP: • Environmental monitoring and inspection records; • Correspondence with Landholders, Stakeholders and Third Parties; • Induction, training and awareness records; • Site and construction activity specific records and registers; • Waste management records; • Reporting of Environmental Incident, non-conformances and corrective actions; • Compliance reports, monthly and annual reports; and • Audit reports.	-
11.2 Reporting	Monthly and Annual Reporting will include information on relevant environmental data and commentary as generated and described above in support of regulatory and contractual requirements. Specific aspect based reporting is outlined in the individual subplans contained in Part C.	-

PART B

APPENDIX A	PRE-COMMENCEMENT REQUIREMENTS - FORM 2
APPENDIX B	CONSULTATION RECORD
APPENDIX C	REGIONAL LOCATION
APPENDIX D	PRELIMINARY PROJECT LAYOUT
APPENDIX E	REVISED WTG NUMBERING
APPENDIX F	LEGAL AND OTHER REQUIREMENTS
APPENDIX G	ENVIRONMENTAL ASPECTS AND IMPACTS REGISTER
APPENDIX H	COMMUNITY AND STAKEHOLDER COMMUNICATION PROTOCOL
APPENDIX I	ENVIRONMENTAL INSPECTION REPORT
APPENDIX J	WASTE MANAGEMENT PROTOCOL

APPENDIX A – PRE-COMMENCEMENT REQUIREMENTS - FORM 2

PRE-COMMENCEMENT REQUIREMENTS
Form 2

Project Name		Project No.	
Crew / Subcontractor		Section/Location	

Activity		Start KP		Finish KP	

NOTE THAT THIS IS NOT A DEFINITIVE LIST OF ALL SPECIFIC REQUIREMENTS.
DISCIPLINE MANAGERS ARE TO BE CONSULTED IF ANY QUESTIONS OR ISSUES ARISE.

Safety	
Works cleared to proceed except as noted Print name, sign and date – Safety Manager	
Environment	
Works cleared to proceed except as noted Print name, sign and date – LECH Manager	
Cultural Heritage	
Works cleared to proceed except as noted Print name, sign and date – LECH Manager	
Lands	
Works cleared to proceed except as noted Print name, sign and date – LECH Manager	

PRE-COMMENCEMENT REQUIREMENTS
Form 2

Activity		Start KP		Finish KP	

Engineering / Construction	
Works cleared to proceed except as noted Print name, sign and date – Project Engineer	
Quality	
Works cleared to proceed except as noted Print name, sign and date – Quality Manager	

Works cleared to proceed except as noted

Nacap Construction Manager Name:	
Signature:	**Date:**

Note: Where there is not a requirement, the Signatory shall note “not required” and sign.

APPENDIX B – CONSULTATION RECORD

The following table provides a detailed record of the consultation activities associated with this Plan.

Date	Consultation	Comments
23rd March 2020	Blayney Shire Council	CEMP issued for Consultation.
4th May 2020	Blayney Shire Council	Blayney Shire Council confirmed receipt of the CEMP for consultation and have confirmed no comments applicable to the Plan.
23rd March 2020	Cabonne Shire Council	CEMP issued for Consultation.
21st April 2020	Cabonne Shire Council	Cabonne Shire Council confirmed receipt of the CEMP for consultation and have confirmed no comments applicable to the Plan.
23rd March 2020	Biodiversity and Conservation Division, Dubbo	CEMP issued for Consultation.
6th April 2020	Biodiversity and Conservation Division, Dubbo	BCD confirmed receipt of the CEMP for consultation and have confirmed no comments applicable to the Plan.
23rd March 2020	Natural Resources Access Regulator	CEMP issued for Consultation.
28th April 2020	Natural Resources Access Regulator	Refer to correspondence overleaf, dated 28th April 2020.
23rd March 2020	Lands Ministerials (Crown Lands)	CEMP issued for Consultation.
9th April 2020	Lands Ministerials (Crown Lands)	Crown Lands confirmed receipt of the CEMP for consultation and have confirmed no comments applicable to the Plan.

Megan Richardson

From: Mark Dicker <MDicker@blayney.nsw.gov.au>
Sent: Monday, 4 May 2020 8:43 AM
To: Megan Richardson
Cc: Brian Treacy (Nacap); May.Patterson@planning.nsw.gov.au
Subject: [EXTERNAL] RE: Flyers Creek - Management Plans

Hi Megan,

I forwarded all plans to all relevant personal within BSC, and have had no responses (besides Nathan's which you have).

I have also skimmed all of the plans and they seem ok to me.

Thanks Mark

Mark Dicker
Director Planning and Environmental Services
Blayney Shire Council
PO Box 62 Blayney NSW 2799
p - 02 6368 2104 | m - 0409 742 432 | e - MDicker@blayney.nsw.gov.au | w - www.blayney.nsw.gov.au

---

From: Megan Richardson <Megan.Richardson@infigenenergy.com>
Sent: Thursday, 30 April 2020 4:14 PM
To: Mark Dicker <MDicker@blayney.nsw.gov.au>
Cc: Brian Treacy (Nacap) <b.treacy@quantaservices.com>; May.Patterson@planning.nsw.gov.au
Subject: RE: Flyers Creek - Management Plans

Mark,

Just a reminder to advise that tomorrow is the last day for any comments/feedback form Blayney Shire Council on the following Flyers Creek construction management plans:

- D26 Design & Landscape Plan
- F20 Construction Environment Management Plan
- F21 (d) Construction Soil & Water Mngmt Plan

Many thanks
Megan

From: Megan Richardson
Sent: Monday, 27 April 2020 12:00 PM
To: Mark Dicker <MDicker@blayney.nsw.gov.au>
Subject: RE: Flyers Creek - Management Plans

Great thanks for the update Mark.

Megan Richardson

From: Surendra Sapkota <Surendra.Sapkota@cabonne.nsw.gov.au>
Sent: Tuesday, 21 April 2020 12:34 PM
To: Megan Richardson
Cc: Cc:
Subject: [EXTERNAL] RE: Flyers Creek Wind Farm, Condition F21 (c): Construction Traffic & Access Management Plan.
Attachments: Flyers Creek Wind Farm, Condition D26: Design and Landscape Plan; Flyers Creek - Construction Environment Management Plan (F20)

Hi Megan,

Council reviewed the said documents and has no any comments on them.

Kind regards

Surendra Sapkota
Manager Technical Services
Surendra.Sapkota@cabonne.nsw.gov.au
(02) 6390 7153
0427 492 877

Cabonne Council
PO Box 17
Molong NSW 2866
Switch:
Fax: (02) 6392 3260
Council@cabonne.nsw.gov.au
www.cabonne.nsw.gov.au

From: Megan Richardson <Megan.Richardson@infigenenergy.com>
Sent: Tuesday, 14 April 2020 4:54 PM
To: Surendra Sapkota <Surendra.Sapkota@cabonne.nsw.gov.au>
Cc: Cc: <May.Patterson@planning.nsw.gov.au>; Roy Ansted <Roy.Ansted@cabonne.nsw.gov.au>; Tony Weekes <Tony.Weekes@cabonne.nsw.gov.au>
Subject: RE: Flyers Creek Wind Farm, Condition F21 (c): Construction Traffic & Access Management Plan.

No problem,

Please find attached.

Thanks
Megan

Our ref: DOC20/263171
Your ref: MP08_0252

Megan Richardson
Development Manager
Infigen Energy
megan.richardson@infigenenergy.com

Dear Megan

Flyers Creek Wind Farm - Construction Environment Management Plan

Thank you for your e-mail dated 23 March 2020 to the Biodiversity and Conservation Division (BCD) of the Department of Planning, Industry and Environment (DPIE) inviting comments on the Flyers Creek Wind Farm Construction Environment Management Plan (CEMP).

Based on the information provided, BCD has no specific comments to make on the CEMP at this stage. Please note that if subsequent information indicates that areas within BCD's responsibility require further investigation, BCD may provide future input.

If you require any further information regarding this matter, please contact David Geering, Senior Conservation Planning Officer, via david.geering@environment.nsw.gov.au or (02) 6883 5335.

Yours sincerely

Renee Shepherd
Acting Senior Team Leader Planning North West
Biodiversity and Conservation Division

6 April 2020

cc. may.patterson@planning.nsw.gov.au

Natural Resources Access Regulator

Contact: Bryson Lashbrook
Phone: 02 6937 2708
Email: bryson.lashbrook@nrar.nsw.gov.au

Megan Richardson
Development Manager
Infigen
Level 17, 56 Pitt Street
Sydney NSW 2000

Our ref: V15/3875-3#78
File No:
Your Ref:

28 April 2020

Dear Megan

Re: Flyers Creek Wind Farm - Construction Environmental Management Plan and Construction Soil and Water Quality Management Plan - Natural Resource Access Regulator Comments

The Natural Resources Access Regulator (NRAR) has reviewed the Construction Environment Management Plan (CEMP) and the Construction Soil and Water Quality Management Plan (CSWQMP) in relation to the Flyers Creek Wind Farm that was received on 13 March 2020. It is understood this consultation is in accordance with the requirements of Condition F20 and Condition F21 (d) of the Project Approval. The documents have been reviewed and the following comments are provided.

Construction Environmental Management Plan

- It is noted Appendix F includes a table which references licensing under the Water Management Act 2000. Additional information needs to be considered in relation to this aspect as follows:
- Water Supply Work Approvals are excluded from an approved SSD project on the basis the impacts of these works have been assessed and approved as part of the SSD project. It is understood no relevant works were approved in the SSD project hence any new works or works not currently authorised appropriately will require an approval under the Water Management Act 2000 prior to the take of water. Applications for new approvals include an advertising and assessment process.
- Water Access Licences (WALs) are not excluded from approved SSD projects. Hence where required, a WAL needs to be obtained prior to the take of water.

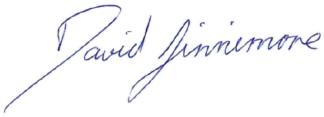
Construction Soil and Water Quality Management Plan

- It is noted Section 4.10 references the use of groundwater and local dams for construction purposes “where available” and references to the need to identify water sources. The availability of water and any approval or WAL requirements therefore remains uncertain and a potential risk to this project. Please note licence requirements and authorisations can apply to differing water sources eg. farm dams, bores, river water, town water supplies.
- If groundwater is likely to be intercepted consultation with NRAR is required to determine licensing requirements under the Water Management Act 2000.

- MM04 and MM22 refers to the Development and implementation of Erosion and Sediment Control Plans (ESCP's) which are expected to provide the detail of erosion and sediment control for the project are yet to be prepared. No comment can therefore be required on the adequacy of erosion and sediment control measures.
- MM13 refers to the potential for impacts on drainage lines. References in this document to the use of the "Guidelines for Controlled Activities on Waterfront Land (NSW Office of Water, 2012)" in relation to waterway crossings is supported. The reference should be updated to the latest version *NSW NRAR 2018*.

Please direct any questions regarding this correspondence to Bryson Lashbrook, bryson.lashbrook@nrar.nsw.gov.au, (02) 6937 2708.

Yours sincerely



David Finnimore
A/Manager - Licencing and Approvals
Water Regulatory Operations – West
Department of Industry – Natural Resource Access Regulator

Megan Richardson

From: kirstyn.goulding@crownland.nsw.gov.au on behalf of Lands Ministerials <lands.ministerials@industry.nsw.gov.au>
Sent: Thursday, 9 April 2020 8:13 AM
To: Megan Richardson
Subject: [EXTERNAL] Re: Flyers Creek Wind Farm - Construction Environment Management Plan

Hi Megan

Crown Lands has no comments for this proposal.

Thanks
Kirstyn

Lands Stakeholder Relations

Team telephone numbers: Rebecca Johnson, Principal Project Officer, 4920 5040; Kirstyn Goulding, Administration Officer - Customer Liaison, 4920 5058; Kim Fitzpatrick, Senior Project Officer, 4920 5015, Deb Alterator, Project Support Officer 4920 5172

Crown Lands | Department of Planning, Industry and Environment
E lands.ministerials@industry.nsw.gov.au
Level 4, 437 Hunter Street Newcastle NSW 2295
www.dpie.nsw.gov.au

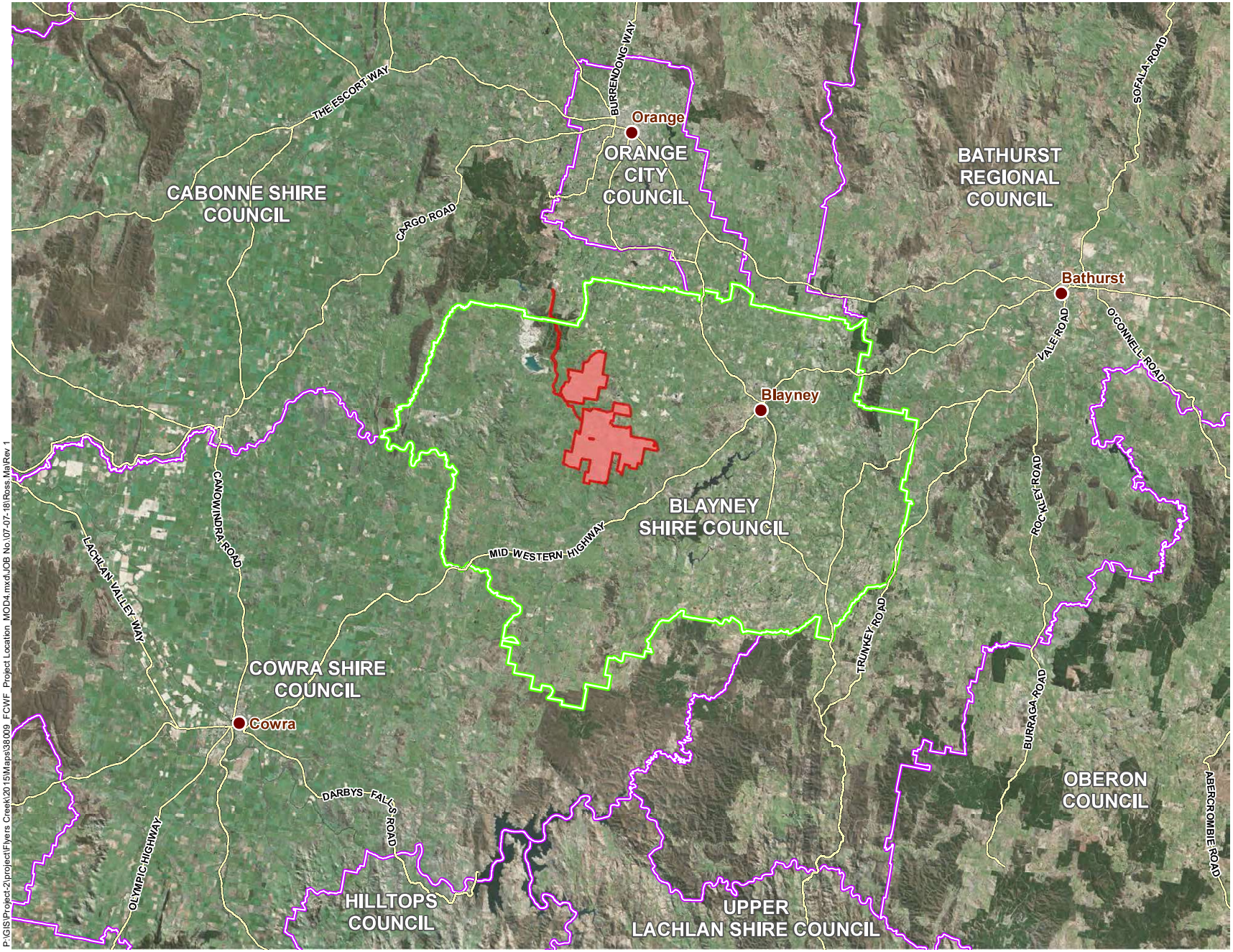
NSW GOVERNMENT | Planning, Industry & Environment

The Department of Planning, Industry and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.

On Mon, Mar 23, 2020 at 7:13 PM Megan Richardson <Megan.Richardson@infigenenergy.com> wrote:

> All,
>
> *Re: Flyers Creek Wind Farm, Condition F20: Construction Environment Management Plan*
>
> Please find attached the Flyers Creek Wind Farm Construction Environment Management Plan (CEMP) in draft form for BCD review and comment.

APPENDIX C – REGIONAL LOCATION



Legend

- Town
- Main Road
- Blayney Shire Council
- Local Government Area
- Project area

Source: Aurecon, LPI

Service Layer Credits: Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS,

P:\GIS\Project-2\project\Flyers Creek\2015\Maps\38009_FCWF_Project Location_MOD4.mxd\JOB No.\07-07-18\Ross.Ma\Rev 1

1:365,000@A3

0 10 20 km

Projection: GDA 1994 MGA Zone 55

infigen

aurecon

Aurecon Australia Pty Ltd
Level 2, 116 Military Road
(PO Box 538)
Neutral Bay NSW 2089, Australia
Telephone: +61 2 9465 5599
Facsimile: +61 2 9465 5598
Email: sydney@aurecongroup.com

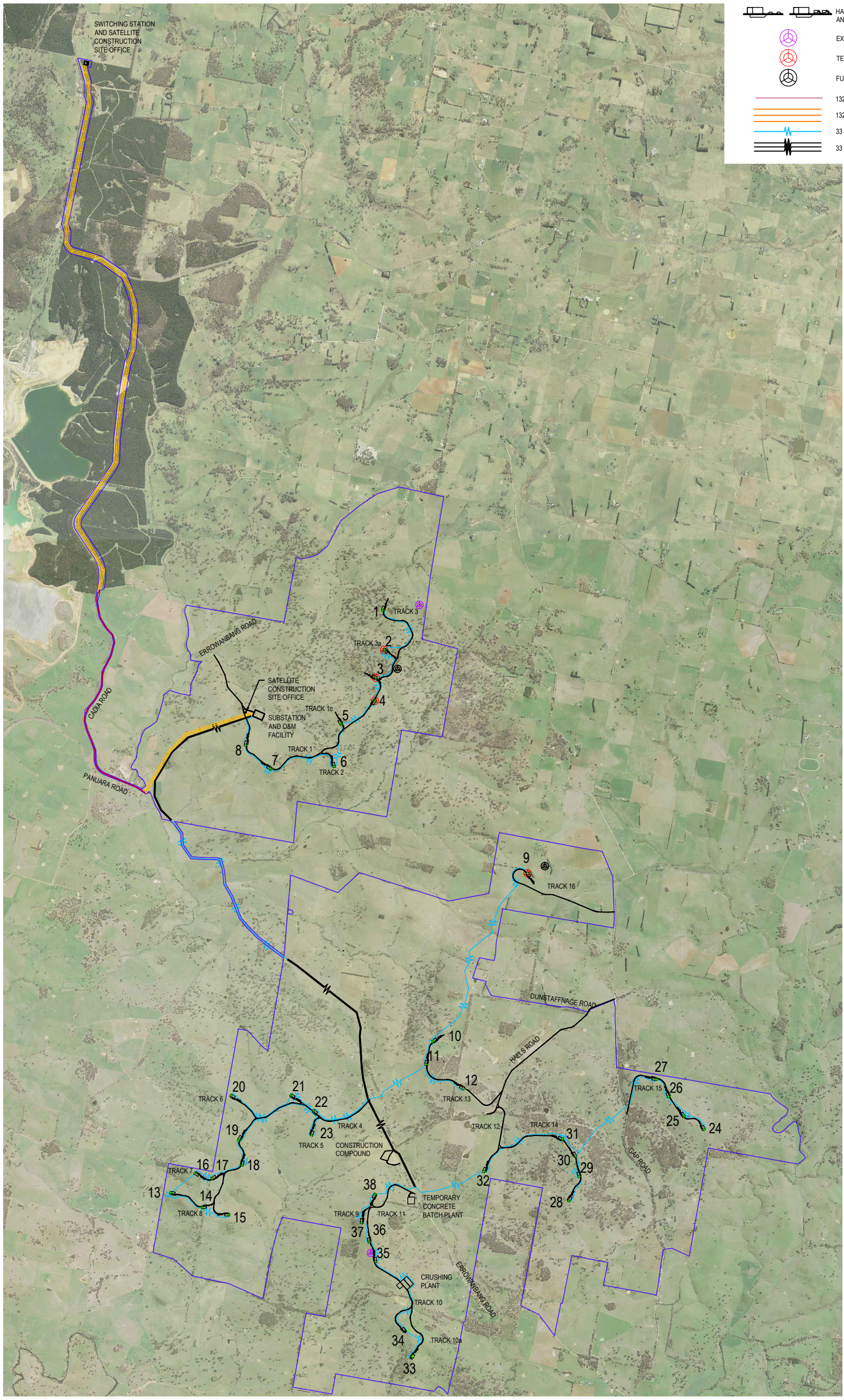
Flyer Creek Wind Farm

Figure 1: Project Location

APPENDIX D – PRELIMINARY PROJECT LAYOUT

LEGEND

- PROJECT BOUNDARY
- WTG 1 — TURBINE NUMBER
- ACCESS TRACK
- HARDSTAND / LAYDOWN AND CRANE PAD OPTIONS
- EXISTING MET MAST
- TEMPORARY MET MAST
- FUTURE PERMANENT MET MAST
- 132 kV TRANSMISSION LINE UG
- 132 kV TRANSMISSION LINE OH
- 33 kV CABLING LINE UG
- 33 kV CABLING LINE OH



SITE LAYOUT

1:30,000 1200 0 1200 2400 A1
1:60,000 A3

PRELIMINARY LAYOUT SUBJECT TO FINAL DESIGN

DIAL BEFORE YOU DIG www.1100.com.au

REV	DETAIL	DRN	CHK	APP	DATE
D	FOR APPROVAL	J.C.	F.M.	N.C.	18.03.2020
C	FOR APPROVAL	J.C.	F.M.	N.C.	10.03.2020
B	FOR APPROVAL	J.C.	F.M.	N.C.	10.03.2020
A	FOR APPROVAL	J.C.	F.M.	N.C.	06.03.2020

REVISIONS AND APPROVALS

i³ consulting pty ltd
engineering consultants
innovation, ingenuity, inspiration
L2 39 Sherwood Rd Toowong, Qld 4066 www.icubed.com.au ABN 89 106 675 156
PO Box 878 Toowong, Qld 4066 mail@icubed.com.au ACN 106 675 156
p 07 3870 8888

nacap
A QUANTA SERVICES COMPANY

PROJECT: FLYERS CREEK WIND FARM
TITLE: PROJECT OVERALL GENERAL PROJECT LAYOUT PLAN
DRAWING STATUS: PRELIMINARY
PROJECT No. 18-070
SCALE: AS SHOWN
SIZE: A3
DRAWING No. FCWF-DWG-0241-9
REV. D

APPENDIX E – REVISED WIND TURBINE GENERATOR NUMBERING

Approved Turbine Number	Revised Turbine Number
3	1
5	2
6	3
7	4
8	5
9	6
11	7
10	8
15	9
18	10
19	11
20	12
29	13
30	14
31	15
28	16
27	17
26	18
25	19
24	20
21	21
22	22
23	23
46	24
45	25
44	26
43	27
42	28
41	29
40	30
39	31
38	32
37	33
36	34
35	35
34	36
33	37
32	38

APPENDIX F – LEGAL AND OTHER REQUIREMENTS

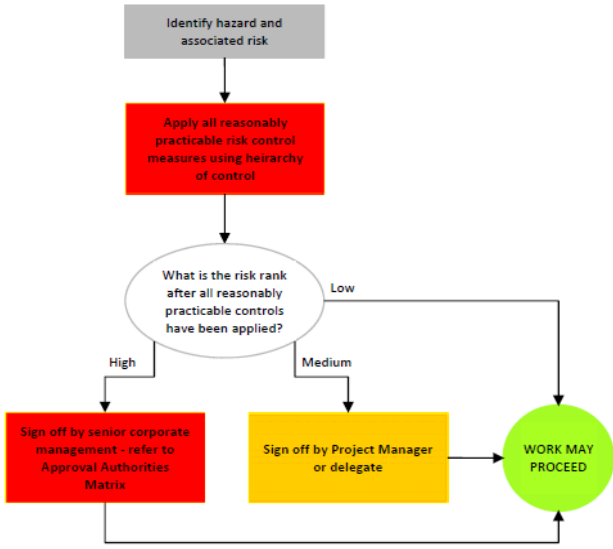
Regulatory and Other Requirements	Description and Relevance
Environmental Planning and Assessment Act 1979 (NSW)	The NSW Environmental Planning and Assessment Act 1979 (EP&A Act) is the core legislation relating to planning and development activities in NSW. It is the principal law overseeing the assessment and determination of development proposals, and all development in NSW is assessed in accordance with the provisions of the EP&A Act
Protection of the Environmental Operations Act 1997 (NSW)	The Protection of the Environment Operations Act 1997 (POEO Act) establishes the State's environmental regulatory framework and includes licensing requirements for certain and is administered by the EPA
Protection of the Environment Operations (General) Regulation 2009 (NSW)	Provides for the administration of environment protection licenses, Establishes the method of calculating licence fees, including load based licence fees, and environmental protection notice fees.
Protection of the Environment Operations (Noise Control) Regulation 2017 (POEO Regulation)	The EPA regulates noise from licensed industrial premises under Schedule 1 of the Protection of the Environment Operations Act 1997 (POEO Act). If noise above scheduled levels is emitted from the premises because of the occupier's failure to maintain or operate the plant, or properly and efficiently deal with materials the EPA can use noise control notices, prevention notices and noise abatement directions to reduce or stop the noise
Interim Construction Noise Guidelines (DECC 2009)	The Interim Construction Noise Guideline (the Guideline) sets out ways to deal with the impacts of construction noise on residences and other sensitive land uses. It also guides the setting of statutory conditions in licenses or other regulatory instruments for construction noise.
Crown Lands Act 1989 (NSW)	The Crown Lands Act 1989, administered by the Minister for Crown Lands, regulates the management of Crown land for the benefit of the people of New South Wales
Local Land Service Amendment Act 2016 (NSW)	The Local Land Service Amendment Act provides a framework for the management and conservation of native vegetation in NSW, in accordance with Ecologically Sustainable Design principles, with an aim of preventing broad scale clearing unless it improves the condition of high conservation value native vegetation and encourage rehabilitation of the land.
Soil Conservation Act 1938 (NSW)	An Act to make provision for the conservation of soil resources and farm water resources and for the mitigation of erosion.
Contaminated Land Management Act 1997 (NSW)	The general object of this Act is to establish a process for investigating and (where appropriate) remediating land that the EPA considers to be contaminated significantly enough to require regulation.
Contaminated Land Management Regulation 2013 (NSW)	This Regulation provides for the recovery of administrative costs by the EPA in connection with orders and proposals made under the Act; provides for the accreditation of site auditors; and prescribes certain offences as penalty notice offences and prescribes penalty notice amounts.
Rural Fires Act 1997 (NSW)	The objects of this Act are to provide for the prevention, mitigation and suppression of bush and other fires in local government areas (or parts of areas) and other parts of the State constituted as rural fire districts, and for the co-ordination of bush firefighting and bush fire prevention throughout the State, and for the protection of persons from injury or death, and property from damage, arising from fires, and for the protection of infrastructure and environmental, economic, cultural, agricultural and community assets from damage arising from fires, and for the protection of the environment by requiring certain activities to be carried out having regard to the principles of ecologically sustainable development.
Forestry Act 2012 (NSW)	An Act to provide for the dedication, management and use of State forests and other Crown-timber land for forestry and other purposes; to constitute the Forestry Corporation of New South Wales as a statutory State owned corporation and to specify its objectives and functions
Biodiversity Conservation Act 2016 (NSW)	The Biodiversity Conservation Act 2016 (BC Act) governs the management and conservation of biodiversity in NSW, which includes all flora, fauna and ecological communities, consistent with principles of ecologically sustainable development of the Protection of the Environment Administration Act 1991 (NSW)
Biodiversity Conservation Regulation 2017 (NSW)	Section 6.8 of the Biodiversity Conservation Regulation 2017 (the BC Regulation) requires that a Biodiversity Development Assessment Report (BDAR) for a development application must include details of offsets for impacts, including the number and classes of biodiversity credits required to be retired in

	accordance with the like-for-like requirements of the offset rules. The credentials of the assessors that established these offsets and the date of the assessment is also required under the BC Regulation
Fisheries Management Act 1994 (NSW)	The broad objective of the Fisheries Management Act 1994 (FM Act) is to conserve, develop and share the fishery resources of the State for the benefit of present and future generations.
Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)	The Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) provides a legal framework to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places — defined in the EPBC Act as Matters of National Environmental Significance (MNES). The purpose of the EPBC Act is to ensure that actions likely to cause a significant impact on MNES undergo an assessment and approval process. Under the EPBC Act, an 'action' includes a project, undertaking, or activity. An action that 'has, will have or is likely to have a significant impact on a matter of national environmental significance' is deemed to be a 'controlled action' and may not be undertaken without prior approval from the Commonwealth Minister for the Environment (the Minister).
National Parks & Wildlife Act 1974 (NSW)	The National Parks & Wildlife Act 1974 (NPW Act) protects Aboriginal heritage (places, sites and objects) within NSW. Protection of Aboriginal heritage is outlined in s86 of the Act, as follows: • "A person must not harm or desecrate an object that the person knows is an Aboriginal object" s86(1) • "A person must not harm an Aboriginal object" s86(2) • "A person must not harm or desecrate an Aboriginal place" s86(4)
National Parks & Wildlife Regulation 2009 (NSW)	The National Parks and Wildlife Regulation 2009 ("NPW Regulation") provides a framework for undertaking activities and exercising due diligence in respect to Aboriginal heritage. The NPW Regulation 2009 outlines the recognised due diligence codes of practice which are relevant to this report, but it also outlines procedures for Aboriginal Heritage Impact Permit (AHIP) applications and Aboriginal Cultural Heritage Consultation Requirements (ACHCRs); amongst other regulatory processes
Heritage Act 1977 (NSW)	The NSW Heritage Act 1977 makes provisions to conserve the State's historic heritage. It provides for; • The identification and registration of items of State heritage significance; • The interim protection of items of State heritage significance; and • Constitutes the Heritage Council of New South Wales
Native Title Act 1993 (Commonwealth)	The Native Title Act provides a national framework for the recognition and protection of native title i.e. the rights and interests, recognised by common law, possessed under traditional laws and customs of Aboriginal and Torres Strait Islander people. The Act recognises the ownership of land or waters by Aboriginal and Torres Strait Islander groups prior to European settlement and provides a mechanism for determining where native title exists, who holds it, and identifies compensation for actions affecting it. The Act establishes ways in which future dealings affecting native title may proceed and sets standards for those dealings. A Native Title search has been undertaken for the development and it has been determined that there are no registered claims over the Project area
Aboriginal and Torres Strait Islander Heritage Protection Act 1984 (Commonwealth)	The Aboriginal and Torres Strait Islander Heritage Protection Act 1984 enables the Australian Government to respond to requests to protect areas and objects of particular significance to Aboriginal people, if it appears that state or territory laws have not provided effective protection. An Aboriginal and Historic Heritage Assessment has been prepared for the development which has determined that there are no items or areas of Aboriginal cultural heritage significance within the development site.
Code of Practice for Archaeological Investigations of Objects in NSW (2010)	The purpose of this Code of Practice is to: • establish the requirements for undertaking test excavation as a part of archaeological investigation without an AHIP; and • establish the requirements that must be followed when carrying out archaeological investigation in NSW where an application for an AHIP is likely to be made
Guide to Investigating, Assessing and Reporting on Aboriginal Cultural Heritage in NSW (2011)	The purpose of this document is to provide: • Guidance on the process for investigating and assessing Aboriginal cultural heritage in NSW and

	• BCD's requirements for an Aboriginal cultural heritage assessment report
Biosecurity Act 2015 (NSW)	The Biosecurity Act 2015) establishes a system for the identification and control of noxious weeds in NSW. The NW Act divides noxious weeds into five categories which determine the level of control required. Responsibility for the control of noxious weeds lies with the owner and/ or occupier of private land and crown land, local councils and other public authorities.
Water Management Act 2000 (NSW)	The objectives of the Water Management Act 2000 are to provide for the sustainable and integrated management of the water sources of NSW for the benefit of both present and future generations. Water supply work approvals are excluded from an approved SSD project on the basis impact of these works have been assessed and approved as part of the SSD project. It is understood no relevant works were approved in the SSD project hence any new works or works not currently authorised appropriately will require an approval under the Water Management Act 2000 prior to the take of water. Applications for new approvals include an advertising and assessment process. Water Access Licenses (WALs) are not excluded from approved SSD projects. Hence where required, a WAL needs to be obtained prior to the take of water.
Water Management (General) Regulation 2018	This regulation specifies procedural, technical and licence requirements under the Water Management Act 2000, as well as the functions and powers of water supply authorities.
Roads Act 1993 (NSW)	The Roads Act 1993 (Roads Act) provides a framework for the management of roads in NSW. It provides for the classification of roads and the declaration of the Roads and Maritime Services (RMS) and other public authorities for both classified and unclassified roads. The Roads Act confers fractions on RMS and other roads authorities and allows distribution of such functions between RMS and other roads authorities

APPENDIX G – ENVIRONMENTAL ASPECTS AND IMPACTS REGISTER

	Safety	Fatality	Permanent Disability	Lost Time Injury	Medical Treatment	First Aid Injury
	Environment	Permanent Damage	Long Term Effect and Large Area	Long Term Effect and Small Area	Short Term Effect and Large Area	Short Term Effect and Small Area
No	**Likelihood**					
1	Expected to Occur (once per week)	High	High	High	High	Medium
2	Common (once per month)	High	High	High	Medium	Medium
3	Sometimes (once per year)	High	High	Medium	Medium	Low
4	Rarely (once in < 20 years)	High	Medium	Medium	Low	Low
5	Highly Unlikely (once in > 20 years)	Medium	Medium	Low	Low	Low



Aspects and Impacts Register

No	ACTIVITY	HAZARD (Cause) Due to ……..	THREAT There is a threat of …..	EFFECT Which may lead to ….	Likelihood	Impact	Risk	Mitigation Actions	Responsible Person	New Likelihood	New Impact	New Risk
1	Mobilisation and site establishment	Vehicle and plant access and mobilisation	Unauthorised disturbance to natural sytems, heritage and built environment	Environmental and land use degradation	Sometimes (once per year)	Short Term Effect and Small Area	low	Project Inductions and SWMS Development Project Layout developed to avoid known sensitivities and constraints Pre Commencement Form 2 Implement Unexpeccted Finds Proticols Pre-clearance checks and establishment and maintenance of No Go Zones Awareness throuh daily pre-starts, toolbox talks and one on one conversations Compliance iwth CTAMP Incident Reporting	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low
2	Mobilisation and site establishment	Plant and equipment arriving from locations that may have carry noxious weeds and pests	Contamination of land by the introduction of new noxious weeds/pests from wheels and vehicle under body.	Environmental and land use degradation	Sometimes (once per year)	Long Term Effect and Small Area	Medium	Project Inductions and SWMS development Vehicle pre inspections, wash- down, hygiene requirements, response procedures Project Induction and SWMS Housekeeping Vehicle / Plant Inspections Awareness throuh daily pre-starts, toolbox talks and one on one conversations Subcontractor management Compliance with CFFMP Environmental Inspections and Audits Incident Reporting Complaints Management	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low

Aspects and Impacts Register

No	ACTIVITY	HAZARD (Cause) Due to ……..	THREAT There is a threat of …..	EFFECT Which may lead to ….	Likelihood	Impact	Risk	Mitigation Actions	Responsible Person	New Likelihood	New Impact	New Risk
3	Construction of site roads,crane pads and laydown; establishment of temporary ancillary facilities	Personnel not being aware or accidently entering areas of the project that are off limits	Entering restrcted/no go zones and unauthorised disturbance	Environmental and land use degradation	Sometimes (once per year)	Short Term Effect and Small Area	low	Project Inductions and SWMS Development Project Layout developed to avoid known sensitivities and constraints Pre Commencement Form 2 Implement Unexpeccted Finds Proticols Pre-clearance checks and establishment and maintenance of No Go Zones Awareness throuh daily pre-starts, toolbox talks and one on one conversations Compliance with CFFMP Environmental Inspections and Audits Incident Reporting Complaints Management	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low
4	Operation of motor vehicles or plant.	Operating off approved access and disturbance areas	Vehicles driving in locations that could cause damage to local environment.	Environmental and land use degradation	Sometimes (once per year)	Long Term Effect and Small Area	Medium	Project Inductions and SWMS Development Project Signage and mapping Stay on designated tracks and haul routes. Awareness throuh daily pre-starts, toolbox talks and one on one conversations Compliance with CHMP and CFFMP Environmental Inspections and Audits Incident Reporting Complaints Management	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low
5	Operation of motor vehicles or plant.	Vehicle maintenance activities/breakdown of plant.	Uncontained release of oils or lubricants to the local environment during routine service activities.	Environmental and land use degradation	Common (once per month)	Short Term Effect and Small Area	Medium	Project Inductions and SWMS Development Servicing only on hardstand Temporary catch trays used during vehicle service activities. Spill kits to be made available. Compliance with CSWQMP Environmental Inspection and audits Incident Reporting	Contractors Project Manager	Sometimes (once per year)	Short Term Effect and Small Area	Low

Aspects and Impacts Register

No	ACTIVITY	HAZARD (Cause) Due to ……..	THREAT There is a threat of …..	EFFECT Which may lead to ….	Likelihood	Impact	Risk	Mitigation Actions	Responsible Person	New Likelihood	New Impact	New Risk
	Operation of motor vehicles or plant.	Operating/driving at dawn or dusk	Fauna strike	Fauna injury/death	Sometimes (once per year)	Long Term Effect and Small Area	Medium	Project Inductions and SWMS development Driver/ Operator training and competency Speed signage Awareness through notice boards, daily pre-starts, toolbox talks and one on one conversations Compliance with CFFMP Incident Reporting	Contractors Project Manager	Sometimes (once per year)	Short Term Effect and Small Area	Low
6	Operation of motor vehicles or plant.	Operating near sensitive areas - e.g. environmental or heritage sites	Damage to protected environmental or heritage areas.	Damage to native vegetation and or heritage	Sometimes (once per year)	Long Term Effect and Small Area	Medium	Project Inductions and SWMS development Pre-Starts and awareness sessions Notice boards Conduct pre-clearance inspection and identify and delineate extent of approved disturbance and establish NO GO Zones including indivual trees as defined in the CEMP and Sub-plans Environmental inspections and audits Compliance with CHMP and CFFMP Incident Reporting.	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low
7	Operation of motor vehicles or plant.	Spills due to the need to service vehicles and Plant on site	Personnel not being inducted to site and having no understanding of the site rules or spill management	Environmental and land use degradation	Sometimes (once per year)	Short Term Effect and Small Area	low	All service personal to be inducted to site. Service workers that are visitors to site are to be accompanied by a fully inducted person. Service activities to be performed in designated areas (e.g. hard stands and lay down areas). Environmental Inspections and Audits Compliance with CSWQMP Incident Reporting	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low

Aspects and Impacts Register

No	ACTIVITY	HAZARD (Cause) Due to ……..	THREAT There is a threat of …..	EFFECT Which may lead to ….	Likelihood	Impact	Risk	Mitigation Actions	Responsible Person	New Likelihood	New Impact	New Risk
	Operation of motor vehicles or plant.	Operating in weed infested areas	Weed spread infestation	Environment and land use degradation	Sometimes (once per year)	Long Term Effect and Small Area	medium	Project Inductions and SWMS development All plant and vehicles clean on entry Pre starts and awareness sessions Remain on approved access and works areas Blow downs or wash downs in event of contact with known weed infestation prior to movement across property boundaries Environmenatal inspections and audits. Compliance with CFFMP Incident Reporting Complaints Management	Contractors Project Manager	Sometimes (once per year)	Short Term Effect and Small Area	Low
8	Operation of motor vehicles or plant.	Plant leaving site that may hold excessive amounts of mud and dirt	Amounts of mud and dirt falling onto public roads	1. Complaints from stakeholders and local residents 2. Environmental damage	Sometimes (once per year)	Short Term Effect and Small Area	low	Project Induction and SWMS development Pre-starts and awareness sessions Use only of designated construction access with rumble aggregate Maintain good housekeeping to protect roads Compliance with CSWQMP Environmental Inspections and Audits Incident Reporting Complaints Management	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low
	Operation of motor vehicles or plant.	Travel on access roads	Impacts to associated and surroundiing land use	Road degradation	Sometimes (once per year)	Short Term Effect and Small Area	low	Project inductions, SWMS development and driver training Use designated and approved construction access only Pre Starts and awareness sessions Operate at sinposted speed limits and at walking speed when passing landowners or landowner and stakeholder activiies Maintain good housekeeping to protect roads Compliancce with landowner access requirements Environmental Inspections and Audits Incident Reporting Complaints Management	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Large Area	Low

Aspects and Impacts Register

No	ACTIVITY	HAZARD (Cause) Due to ……..	THREAT There is a threat of …..	EFFECT Which may lead to ….	Likelihood	Impact	Risk	Mitigation Actions	Responsible Person	New Likelihood	New Impact	New Risk
	Earthworks	Inadequte erosion and sediment control planninga and installation	Erosion and sedimentation	Environment and land use degradation	Common (once per month)	Short Term Effect and Large Area	medium	Project Inductions, SWMS developments, Pre-starts and awareness sessions Compliance with CSWQMP inlcuding provision of ESC in accord with Blue Book Ephemeral Watercourses across the project area Environmental Inspections and Audits Incident Reporting	Contractors Project Manager	Sometimes (once per year)	Short Term Effect and Small Area	low
	Earthworks	Soil and spoil management	loss of topsoil	Environment and land use degradation	Sometimes (once per year)	Short Term Effect and Small Area	low	Project Inductions, SWMS developments, Pre-starts and awareness sessions Compliance with CSWQMP inlcuding provision of ESC in accord with Blue Book Environmental Inspections and Audits Incident Reporting	Contractors Project Manager	Sometimes (once per year)	Short Term Effect and Small Area	Low
	Earthworks	Excavations	Unexpected heritage finds	Damage to heritage or sites of significant Uncovering of human remains	Rarely (once in < 20 years)	Long Term Effect and Small Area	medium	Project Inductions, SWMS developments, Pre-starts and awareness sessions Compliance with CHMP Unexpected Finds Protocol Incident Reporting	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low

Aspects and Impacts Register

No	ACTIVITY	HAZARD (Cause) Due to ……..	THREAT There is a threat of …..	EFFECT Which may lead to ….	Likelihood	Impact	Risk	Mitigation Actions	Responsible Person	New Likelihood	New Impact	New Risk
	Earthworks	Excavations	Unexpected contamination	Environmental and land use degradation	Rarely (once in < 20 years)	Long Term Effect and Small Area	Medium	Project Inductions, SWMS developments, Pre-starts and awareness sessions Compliance with CSWQMP Unexpected Finds Protocol Incident Reporting	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low
9	Earthworks	Plant and machinery operating on wet/slippery ground.	Vehicle/plant slides off made road and becomes bogged.	Environmental and land use degradation	Sometimes (once per year)	Short Term Effect and Small Area	low	Project Inductions and SWMS development Operator training and competency. Daily prestart meetings to discuss changes to the site conditions. Verification of operators competency at inductions, Compliance with landowner access requirements Environmental Inspections and Audits Incident Reporting Complaints Management	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Large Area	Low
10	Earthworks	Construction of road, footing, laydown or pad near a sensitive areas - e.g. environmental or heritage sites	Damage to protected environmental or cultural areas.	Environmental and land use degradation	Sometimes (once per year)	Short Term Effect and Small Area	low	Project Inductions and SWMS Development Project Layout developed to avoid known sensitivities and constraints Pre Commencement Form 2 Implement Unexpeccted Finds Proticols Pre-clearance checks and establishment and maintenance of No Go Zones Awareness throuh daily pre-starts, toolbox talks and one on one conversations Compliance iwth CFFMP, CHMP, CSWQMP Compliance with landowner reuqirements Environmental Inspections and Audits Incident Reporting	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low

Aspects and Impacts Register

No	ACTIVITY	HAZARD (Cause) Due to ……..	THREAT There is a threat of …..	EFFECT Which may lead to ….	Likelihood	Impact	Risk	Mitigation Actions	Responsible Person	New Likelihood	New Impact	New Risk
11	Earthworks	Vehicle maintenance activities/breakdown of plant.	Uncontained release of oils or lubricants to the local environment during routine service activities.	Environmental and land use degradation	Common (once per month)	Short Term Effect and Small Area	Medium	Temporary catch trays used during vehicle service activities. Servicing on hardstand or over drop sheets/geofabric Spill kits to be made available. Incident Reporting Environmental Inspections and Audits	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low
12	Earthworks	Generation of dust, reduced air qulaity	Loss of topsoil and contamination	Environmental and land use degradation and public health	Common (once per month)	Short Term Effect and Small Area	Medium	Project Inductions and SWMS development Identification of sensitive receptors Stockpile management measures Monitoring of weather conditions Availability of water carts Compliance with CAQMP Incident Reporting Complaints Management	Contractors Project Manager	Sometimes (once per year)	Short Term Effect and Small Area	Low
13	Earthworks	Generation of noise and vibration	Impacts to sensitive receptors	Environmental and land use degradation and public health	Common (once per month)	Short Term Effect and Small Area	Medium	Project Inductions, SWMS development and identifictaion of sensitive receptors All equipment to be fitted with well maintained noise abatement measures Maintain plant vehicles and eqipment in good order Compliance with CNVMP Incident Reporting Complaints Management	Contractors Project Manager	Sometimes (once per year)	Short Term Effect and Small Area	Low
14	Excavation	Entrapment of fauna	Fauna falling into excavation	Fauna injury	Common (once per month)	Short Term Effect and Small Area	Medium	Project Inductonns and SWMS development Pre-starts and awareness sessions Minimise duration of open excavations Install measures to allow egress of fauna Contact details for vets and voluntary fauna carers Daily inspection and removal of fauna Compliance with CFFMP Incident Reporting	Contractors Project Manager	Sometimes (once per year)	Short Term Effect and Large Area	Low

Aspects and Impacts Register

No	ACTIVITY	HAZARD (Cause) Due to ……..	THREAT There is a threat of …..	EFFECT Which may lead to ….	Likelihood	Impact	Risk	Mitigation Actions	Responsible Person	New Likelihood	New Impact	New Risk
16	Transportation /removal of materials - Unloading and storage of materials at site	Impacts to environmental sensitivites and heritage	There is a threat that environmental sensitivites and heritage may not be clearly identified leading to damage to these areas during Transportation and laydown of components.	Reportable Incident Delays caused by investigations, repairs and cleanup requirements.	Common (once per month)	Short Term Effect and Large Area	Medium	Project Inductions and SWMS development Identification and establishment of No Go Zones Verification of areas before operations in that location. Access area permit system Pre-start/toolboxes and awareness Site inspections and audits Compliance with CTAMP, CHMP, CFFMP Incident Reporting	Contractors Project Manager	Highly Unlikely (once in > 20 years)	Short Term Effect and Large Area	Low
17	Transportation of components / materials - Unloading and storage of materials at site	Storage of hazardous or dangerous materials and combustable liquids - such as gases and fuels.	Incorrect storage of dangerous or hazardous substances leading to fire or explosion, or escape of substance to the environment.	Injury to site personnel. Damage to site equipment / plant and facilities. Damage to the local environment.	Common (once per month)	Short Term Effect and Large Area	Medium	Project Induction and SWMS development Storage of dangerous, hazardous or combustable materials that meets statutory requirements Provision of bunding and other stormwater mitigation measires Provision of spill kits. Experienced operators Compliance with CSWQMP Incident Reporting	Contractors Project Manager	Highly Unlikely (once in > 20 years)	Short Term Effect and Large Area	Low
18	Transportation of components / materials - Unloading and storage of materials at site	Use of heavy vehicles on the construction site. Heavy Vehicle equipment in general.	There is a threat of failure of a fuel line .	Injury resulting from sudden release of diesel. Release of fuel to the local environment.	Sometimes (once per year)	Short Term Effect and Small Area	low	Certified heavy vehicle operators. Verification of competencies at project induction. Plant maintenance records. Plant inspection prior to use. Provision of spill kits. Compliance with CTAMP and CSWQMP Incident Reporting	Contractors Project Manager	Highly Unlikely (once in > 20 years)	Short Term Effect and Large Area	Low

Aspects and Impacts Register

No	ACTIVITY	HAZARD (Cause) Due to ……..	THREAT There is a threat of …..	EFFECT Which may lead to ….	Likelihood	Impact	Risk	Mitigation Actions	Responsible Person	New Likelihood	New Impact	New Risk
19	General Works	Waste material not stored or contained correctly	Poor Waste management / waste containment compromised	Impact to health and environment	Sometimes (once per year)	Short Term Effect and Large Area	Medium	Project Inductions and SWMS development Pre-starts and awareness sessions Waste Management including containment, segregation, disposal and record keeping Warning systems on ablution storage tanks Transport of all waste by appropriately licenced operators to licenced facilities Environmental Inspections and Audits Compliance with Waste Management Protocol Compliance with EPL Incident Reporting	Contractors Project Manager	Rarely (once in < 20 years)	Short Term Effect and Small Area	Low
20	Disposal of waste material	Waste material not disposed of correctly	Contamination of local environment.	Environmental and community relation damage	Common (once per month)	Short Term Effect and Small Area	Medium	Project Inductions and SWMS development Pre-starts and awareness sessions Waste Management including containment, segregation, disposal and record keeping Warning systems on ablution storage tanks Transport of all waste by appropriately licenced operators to licenced facilities Environmental Inspections and Audits Compliance with Waste Management Protocol Compliance with EPL Incident Reporting	Contractors Project Manager	Sometimes (once per year)	Short Term Effect and Small Area	Low

APPENDIX H – COMMUNITY AND STAKEHOLDER COMMUNICATION PROTOCOL

COMMUNITY AND STAKEHOLDER COMMUNICATIONS PROTOCOL	
Purpose	The Purpose of this Community and Stakeholder Communications Protocol is to: • Provide guidance with regard to community affairs and stakeholder liaison and interface throughout the project construction life cycle; • Define roles and responsibilities of key personnel in regard to community and stakeholder management; • Provide a structured and documented approach to ensure compliance with Land Access and Stakeholder Agreements, the relevant public authority permits and approvals; • Provide mechanisms for recording dealings with community and stakeholders throughout the construction process; and • Provide a communication and management process which minimises the impacts of construction on individual stakeholders which in turn maximises the potential of the Project to confine the impacts of disturbance
Roles and Responsibilities	In terms of implementation of this Communications and Stakeholder Communications Protocol, the Project Manager is responsible for the following: • Providing adequate, competent and experienced personnel for the effective management and delivery of Community and Stakeholder and Third Party commitments and obligations • In conjunction with the Lands Environment and Cultural Heritage (LECH) Manager and or delegate, ensure that the required access agreements and authorisations including Third Party permits or similar are secured in a timely manner • In conjunction with the Construction Superintendent, develop construction processes that minimise the impacts of construction on individual stakeholders and the wider community; • Develop a Project culture in which the importance of Community and Stakeholders is recognised and respected; • Assist FCWFPL in community consultation as required, and • Provide accurate information to FCWFPL representatives including forewarning of matters that may have negative impact the Community and FCWFPL reputation. The LECH Manager (and or delegate) is responsible for the following: • Provide support and guide the implementation of this Protocol and associated commitments • Ensure all efforts are made to establish a relationship of trust and openness with Community and Stakeholders • Provide and support a structured and documented approach to ensure compliance with Access and Third Party Agreements, and all relevant public authority permits and approvals • Ensure that all commitments outlined in Access and Third Party Agreements, permits and approvals are communicated across construction disciplines and implemented • Manage Community and Stakeholder notifications, agreements, contacts, records and correspondence • Manage liaison with public authorities regarding applicable permits and approvals • Provide regular updates and reports of community liaison progress and issues to FCWFPL Representatives, including any variations / discrepancies in relation to agreed commitments; and • Promptly report all complaints and other community and stakeholder matters to the Project Manager and FCWFPL Representative Supervisors are directly responsible for: • The implementation of commitments contained in this Protocol, and • Reporting of hazards and incidents and implementing any rectification measures.

Community and Stakeholder Engagement and Management	Effective Community and Stakeholder management is essential to the success of the Project and to FCWFPL ongoing operations within the project area. The Project is to be constructed on private and public land parcels, to which FCWFPL has arranged land access via a range of Third Party Agreements. In making the agreements for access to land, FCWFPL has made several commitments and undertakings to landowners, occupiers, land managers and public authorities in regard to stakeholder, Third Party and community interaction. Stakeholders and Third Parties are defined as a person or groups of persons who are directly or indirectly affected by the Project as well as those who may have interests and influence over the outcome of the Project. They include, but are not limited to: landowners (including occupiers and /or land managers), mining companies, tenement holders, community members, community groups, local and regional bodies, and local / state / federal government representatives. Following handover meeting from FCWFPL, the contractor will undertake all day-to-day interactions with landowners, occupiers, land managers and public authorities during the Project's construction. Interactions with landowners will be guided by, and consistent with, the Landowner and Third Party Agreement previously agreed by FCWFPL. Interactions with public authorities will be guided by the permits and approvals previously put in place by FCWFPL, or as subsequently negotiated by the contractor. The contractor shall be the first point of contact for all landowners, stakeholders, Third Parties and community groups during the construction phase, with appropriate matters being referred to or discussed with FCWFPL. The contractor will also work closely with the relevant FCWFPL representatives in achieving the Project objectives.
Landowner and Stakeholder Notification	The contractor will provide the FCWFPL Representative with the required advance notification for the proposed commencement of works – in accordance with requirements of Landowners, Third Party access agreements and ancillary works permits. Project notification to landowners and stakeholders will be provided along with follow up phone contact by the contractors LECH delegate when arranging meetings. Any notification periods prior to the commencement of works, or prior to certain activities, that are specified in individual access agreements will be observed when notifying the landowners/authorities concerned.
During Construction	During construction, ongoing liaison will occur with community and stakeholders in order to resolve any issues arising from construction works. Liaison will also ensure community and stakeholders are up to date with Project progress, work crew cycle breaks, timing of upcoming works and to assist in maintaining the Project's relationship with the community and stakeholders.

Complaints Management	If, during performance of the Works, a Property Owner, Government Authority, community member or other stakeholder communicates with the contractor (whether orally or in written form) with regards to concerns, complaints, objections or claims (communication) in respect of the Works (including the manner in which the Works are being performed, the timing of the Works and any Reinstatement Works, the contractor shall progress in accord with the following: • Within 4 hours of receiving the formal communication, the contractor will inform FCWFPL that it has received a formal communication; • Within 24 hours of receiving the formal communication, the contractor will give Notice to FCWFPL that it has received formal communication, describing the general nature of the communication; • Within 24 hours of FCWFPL receiving formal communication from the Contractor, FCWFPL and the Contractor will meet to discuss and agree: o how to respond to the Communication (including the form and content of any such response) o what action or work will be considered to be carried out in response to the Communication (including the general details of any such action or response) o which party is responsible for undertaking any response, action or work, and the time by which any response, action or work will be undertaken, and o The proposed and agreed actions from any subsequent meeting be recorded. • Both FCWFPL and the contractor must undertake the response, actions or works determined and agreed as being their responsibility within the time frames agreed at the meeting referred to in step 3; and • If FCWFPL and the contractor is unable to agree on the matters in step 3 when they meet, then FCWFPL shall make a determination as to how to proceed in response to the communication. The Contractor shall comply with that determination. <u>Complaints will also be entered into the Project Complaints Management System</u>. In this regard the complaints process will be as follows: • the initial response (being the first contact made with the complainant after the complaint is received) for a written or verbal complaint should be provided to the complainant as soon as practicable, and normally within five business days; • where feasible, complaints are targeted to be resolved within 30 days of being received. Any complaint not resolved within 30 days of being received will be referred to the relevant member of FCWFPL senior management; • once resolution of a complaint has been determined, the complainant will be advised of the decision made in relation to the complaint and any further remedies (e.g. referral of asset related matters to the National Wind Farm Commissioner for facilitation/conciliation) available to the complainant if they are not satisfied with the outcome. It should be noted that the vast majority of day-to-day issues raised verbally by community and stakeholders that relate to inconveniences arising from construction activities will be able to be resolved by discussion with the LECH Manager / or Project Manager or representative.

Complaints Contact Details	Please email complaints@infigenenergy.com Wind farm related complaints can also be submitted to the Office of the National Wind Farm Commissioner by phone, email or in writing. For more information, please visit www.nwfc.gov.au Phone: +61 1800 656 395 Email: nwfc@environment.gov.au National Wind Farm Commissioner PO Box 24434 Melbourne VIC 3001 Australia
Media Protocol	If any Project Personnel have any contact with a media representative, they will: • Respond in a polite and courteous manner, and • Inform the media representative that they are not the authorised spokesperson and provide contact details of the FCWFPL Project spokesperson or media contact.

APPENDIX I – ENVIRONMENTAL INSPECTION REPORT

Location		Date/Time:	

Environmental Inspection Completed By:			
Name		Position:	

Access and Approvals	Yes/No/NA	CAR Required Record over the page
Have all vehicles, plant and equipment been weed hygiene inspected and have coloured wash down stickers?		
Is the works area being managed as per the property specific requirements?		
Are access tracks established and clearly identified?		
Are access tracks being maintained appropriately including dust suppression?		
Is public access restricted and sign posted?		
Is access confined only to approved access tracks?		
Are all vehicles parked appropriately?		
No Go Zones		
Are exclusion zones established where required?		
Exclusion zone fencing and flagging is in good condition / working order and secure?		
Flora Management		
Is Pre-Clearance survey and flagging completed to prevent Unauthorised disturbance?		
All flagged trees have been retained?		
Vegetation adjacent to approved clearance area is intact with no Unauthorised damage?		
Relevant species management measures where applicable are being implemented?		
Weed, pest and disease management measures where applicable are being implemented?		
Fauna Management		
Fauna inspections, observations and interactions relevant to the activity have been completed and recorded?		
Are there adequate breaks in stockpiles and material storage for fauna movement? Are there adequate/Appropriate barriers for excavations?		
Works near Stakeholders and Third Parties		
Works are being conducted in normal working hours?		
The work area is free of unusual odours?		
Noise management of the work complies with the CEMP?		
Dust management of the work complies with the CEMP?		
Works are progressing without complaint from sensitive receptors or other stakeholders?		
Waste Management		
Is the site free of litter?		
Relevant waste bins on site? Are waste bins covered appropriately?		
Waste stream being managed including waste tracking where applicable?		
Waste removed or stored in accordance with CEMP or landholder requirements?		
Construction Management		
Construction works areas are within surveyed limits?		
Has Clearing been minimised as far as practicable while maintaining appropriate standards of safety including watercourse crossings?		
Timber/vegetation is stockpiled appropriately and out of drainage lines?		
Confirmed topsoil removal to specified depth?		
Topsoil is stockpiled clear of vegetation, infrastructure and drainage lines		
Topsoil grading does not cross property boundaries? Topsoil clear of drainage lines?		
Topsoil windrows have breaks for fauna and access as required?		
Topsoil is free of vehicular use or other disturbance?		
Topsoil is free of spoil contamination?		
Topsoil stockpiles are no higher than 2m?		

Concrete washdown pits are lined and being managed as required?		
Are Erosion and sediment controls adequate and consistent with site plan (if required)?		
Hazardous Materials		
Spill kits are on site? And have been replenished if recently used?		
Works areas are free of contamination?		
Hazardous materials are adequately stored and bunded?		
Bunds are free of contaminants and maintain sufficient free-board to contain spills/rainfall?		
If static site, is the SDS Register up-to-date?		
Refueling grate/spill tray are used where practical?		
Plant and Equipment		
Fuel/chemicals and small plant is bunded?		
Plant and Equipment free of oil or fuel leaks?		
Fuel, oil and hydraulic lines and fittings in good condition? – No wear, cracks fraying etc. observed where practicable?		

Observation/Corrective Action – Close Out:		
Action	**Responsibility**	**Date Completed**

Name:		**Position:**	**Date:**
Signed:			

APPENDIX J – WASTE MANAGEMENT PROTOCOL

WASTE MANAGEMENT PROTOCOL	
Purpose	The purpose of this waste management protocol is to: • adopt the reduce, reuse, recycle, disposal hierarchy, and • minimise impacts from waste generation and management
Scope	This waste management protocol details management measures for waste generation during construction of the Flyers Creek Windfarm. It defines mitigation measures to be implemented to meet requirements and achieve objectives concerning construction waste.
Key issues and Risks	A number of waste streams will be generated during construction. An overview of the waste streams are presented in Table 1. Waste types likely to be generated during construction along with waste classification and storage/disposal requirements are presented in Table 1 Major Waste Streams.
Legislative Requirements	Waste is regulated by the EPA: ***Protection of the Environment Operations Act 1997 (NSW) (POEO Act***) The POEO Act covers the requirements for waste generators in terms of storage and correct disposal of waste and establishes the waste generator as having responsibility for the correct management of waste, including final disposal. Protection of the Environment Operations (General) Regulation 2009 The Regulation contains provisions relating to: • environment protection licences, • the issuing of penalty notices under the Act and certain related environmental legislation, • the appropriate regulatory authority for certain type of activities, • notification of pollution incidents. ***Protection of the Environment Operations (Waste) Regulation 2014*** Makes requirements relating to non-licenced waste activities and non-licenced waste transporting, for example the way in which waste must be stored or transported, reporting and record-keeping requirements. The regulation exempts certain waste streams from the full waste tracking and recordkeeping requirements and allows the EPA to approve the immobilisation of contaminants in waste. ***Waste Avoidance and Resource Recovery Act 2001*** The objective of the Act is to encourage the most efficient use of resources, to reduce environmental harm, and to provide for the continual reduction in waste generation in line with the principles of ecologically sustainable development (ESD). The following hierarchy for managing waste, from most desirable to least desirable, meets the objects of the Act: • Avoid unnecessary resource consumption; • Recover resources (including reuse, reprocessing, recycling and energy recovery); and • Dispose (as a last resort).
Conditions of Approval (CoA) D28, D29 and D30, F20.	D28. The Proponent shall not cause, permit or allow any waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997, if such a licence is required in relation to that waste. D29. The Proponent shall maximise the reuse and / or recycling of waste materials generated on site by the Project, to minimise the need for treatment or disposal of those materials outside the site. D30. The Proponent shall ensure that no green waste associated with the Project is burnt on site during the life of the Project. D31. The Proponent shall ensure that all liquid and / or non-liquid waste generated on the site is assessed and classified in accordance with Waste Classification Guidelines (DECC, 2008), or any future guideline that may supersede that document, and where removed from the site is only directed to a waste management facility lawfully permitted to accept the materials.

	F20. Prior to the commencement of construction, or as otherwise agreed by the Secretary, the Proponent shall prepare and implement (following approval) a Construction Environmental Management Plan for the Project
Roles and Responsibilities	In terms of implementation of this Waste Management Protocol, the Project Manager is responsible for the following: • Provide support and guide the implementation of this waste management protocol and associated management measures • Ensuring adequate resources are provided for implementing and maintaining controls and mitigation measures, and • Take action including the stopping of work in response to environmental incidents or any material harm resulting from waste management associated with construction activities The LECH Manager (and or delegate) is responsible for the following: • Provide support and guide the implementation of this waste management protocol and associated management measures • Providing environmental management input and support of construction and associated methodologies in relation to waste management • Support and guide site environmental incident investigations and reporting , and • Review of internal and external project audits and coordinating the implementation of audit recommendations Supervisors are directly responsible for: • The implementation of commitments contained in this Protocol, and • Reporting of hazards and incidents and implementing any rectification measures. Subcontractors will: • Operate in accordance with all applicable legislation, the CEMP and associated management measures. All project personnel and visitors will: • Uphold a general environmental duty to take all reasonable and practical measures to ensure that the activities on the whole site do not cause environmental harm

Protocol and Mitigation	Mitigation Measure	Responsibility	Reference
General			
MM01	Consider recycled materials in the design of concrete, road base, asphalt and other construction materials	Principal Contractor/ Subcontractor	Waste Avoidance and Resource Recovery Act
MM02	Design and manage waste management areas to prevent sediment runoff and dust generation, prevent double handing, and minimise vehicle movements.	Principal Contractor/ Subcontractor	CoA F20
MM03	Construction and waste classification, transportation and management methods in accordance with the EPA's *Waste Classification* and *Know Your Responsibilities: Managing Waste from Construction Sites* Guideline	Principal Contractor/ Subcontractor	CoA D31
Waste Avoidance, Reuse and Recycling			
MM04	Purchase materials in bulk where possible to minimise packaging.	Principal Contractor/ Subcontractor	CoA D29
MM05	Store empty fuel, lubricant and chemical containers for collection by a drum recycler for cleaning and reuse.	Principal Contractor/	CoA D29

		Subcontractor	
MM06	Store waste oil, grease and lubricants in drums for collection by a waste oil recycler for treatment and reuse.	Principal Contractor/ Subcontractor	CoA D29
MM07	Where possible and cost effective, purchase and/or use recycled materials, or products with recycled content in place of new materials, especially where they are environmentally preferable to the non-recycled alternative.	Principal Contractor/ Subcontractor	CoA D29
MM08	Reuse wood packaging, pallet, plywood, formwork and off-cuts, and cardboards wrapping on-site wherever possible.	Principal Contractor/ Subcontractor	CoA D29
MM09	Segregate scrap metal for recycling.	Principal Contractor/ Subcontractor	CoA D29
Waste Disposal			
MM10	Classify waste that cannot be reused or recycled for disposal at approved disposal facilities in accordance with EPA's *Waste Classification Guidelines (2014)*.	Principal Contractor/ Subcontractor	CoA D31
MM11	Maintain all waste sampling and classification results, and waste transfer dockets / receipts for the life of the project.	Principal Contractor/ Subcontractor	CoA D31
MM12	Provide receptacles including rubbish skips in appropriate locations on site and ensure a contractor is commissioned to regularly remove/empty the bins.	Principal Contractor/ Subcontractor	CoA D29
MM13	Place chemical wastes in sealed drums in designated, bunded areas. Prior to transportation of such material for disposal, check whether the waste requires waste tracking in accordance with the Waste Regulations.	Principal Contractor/ Subcontractor	CoA D29
MM14	Dispose of liquid wastes by tankering off-site to a suitably licensed facility.	Principal Contractor/ Subcontractor	CoA D31
MM15	No burning of disturbed vegetation or green waste	Principal Contractor/ Subcontractor	CoA D30
Waste Transportation			
MM15	Ensure waste truck loads are covered and tailgates secure prior to leaving site.	Principal Contractor/ Subcontractor	CoA F20

MM16	Ensure all trucks transporting waste off-site are appropriately licensed to carry the materials to appropriately licensed waste facilities. Record waste type and destination on a waste manifest/docket system and in the Waste Register	Principal Contractor/ Subcontractor	CoA D31
Inspections and Monitoring	The LECH Manager or delegate shall coordinate inspections and monitoring of works during construction activities to check and record compliance with works procedures and this protocol. Inspections and Monitoring will include: • Weekly review of active works to ensure all management measures are effective and compliant with this protocol • Recording off-site waste disposal and recycling (type, quantities, destination) using the waste register or the EPA online trackable waste system for any wastes classified as restricted or hazardous • Collection and filing of dockets and manifests recording the date of waste removal and identifying waste transport contractor and fate of waste taken from site		
Environmental Incident Management	Environmental Incidents will be managed in accordance with the CEMP Sect 8.2. Environmental Management Emergencies will be managed in accordance with Sect 8.1		
Reporting	Monthly reporting will include information relating to waste management.		
Expected Waste Streams			

Overview of Major Waste Streams

Table 1 – Major Waste Streams

Waste Type	Reuse/Recycling/Disposal Options
Plastics	Recycle/Landfill
Timber	Recycle/Reuse
Glass	Recycle
Metal	Recycle
Green Waste	Recycle/Reuse
General Waste	Licenced Landfill
Concrete	Recycle

Management of Waste Streams

Table 2 Waste Storage and Disposal

Waste Stream	Containment	Reuse/Recycle/Disposal	Waste Type (EPA Guidelines)
Paper/cardboard and or office based wastes from onsite office	240L Bins	Offsite recycling	General Solid Waste (non-putrescible)
Printer Cartridges	Bin provided	Offsite recycling	Hazardous Waste
Organic food scraps	240L Bins	Offsite to landfill	General Solid Waste (putrescible)
Food packaging/cans/bottles	240L Bins	Recyclables sorted for offsite	General Solid Waste (non-putrescible)
Sanitary wastes where sewered facilities are unavailable	Portaloos/Storage Tanks	Licenced Contractor and Facility	Liquid Waste
General Domestic Waste	240L Bins	Offsite to landfill	General Solid Waste (putrescible)
Timber	10m^3 Bins	Timber to be segregated and recycled offsite or disposed	General Solid Waste (non-putrescible)
Scrap Metal	10m^3 Bins	Offsite recycling	General Solid Waste (non-putrescible)
Cables and parts	10m^3 Bins	Metal to be segregated for recycling and remainder to landfill	General Solid Waste (non-putrescible)
Concrete wastes	10m^3 Bins	Reused in temporary works where practicable or sent offsite for recycling	General Solid Waste (non-putrescible)
Waste oils, grease and lubricants	Sealed drums/containers in bunded areas	Offsite recycling by licenced waste oil recycler	Liquid Waste
Oily rags and filters	240L Bins	Offsite recycling by licenced waste oil recycler	General Solid Waste (putrescible)
Drums and containers (empty and containing no residue)	Stored in bunded areas	Taken offsite by licenced contractor for disposal at licenced facility	General Solid Waste (non-putrescible)
Used spill management materials such as absorbent pads, used	3m^3 Bins with self-containment/bunded	Taken offsite to landfill	General Solid Waste (non-putrescible)

	materials to clean up spills			
	Sediment control materials	Stored on site	Reuse where practicable otherwise disposed to landfill	General Solid Waste (non-putrescible)
	Sediment removed from control measures	Stored at controls until capacity	Reuse (respread) on site unless obvious contaminants detected by sight/smell	General Solid Waste (non-putrescible)
	Rock excavations	Stored on site	Reuse on site	Virgin Excavated Natural Material
	Spoil	Stored on site	Reuse on site or dispose for reuse offsite or landfill	*In order to determine which category spoil falls into, it may be necessary to conduct a soil analysis:* • Excavated natural material • Virgin Excavated Natural Material • General Solid Waste (non-putrescible) • Hazardous Waste • Special Waste Refer to notes below

Notes

Virgin excavated natural material (VENM) means natural material (such as clay, gravel, sand, soil or rock fines):

- That has been excavated or quarried from areas that are not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial, mining or agricultural activities
- That does not contain sulfidic ores or soils, or any other waste,

and includes excavated natural material that meets such criteria for virgin excavated natural material as may be approved from time to time by a public notice published in the NSW Government Gazette.

If spoil is unable to be classified as VENM it will be sampled, and tested to determine whether it meets the ENM classification criteria in accordance with the Protection of the Environment Operations (Waste) Regulation 2014 (the Regulation) current general resource recovery exemption, The excavated natural material exemption 2014.

Excavated natural material (ENM) means naturally occurring rock or soil (including but not limited to materials such as sandstone, shale, clay and soil) that has:

a) Been excavated from the ground, and

b) Contains at least 98% by weight natural material, and

c) Does not meet the definition of Virgin Excavated Natural Material in the Act

ENM does not include material that has been processed or contains acid sulphate soils or potentially acid sulphate soils.

Spoil not classified as either VENM or ENM due to contamination from either construction material or other sources shall be characterised in accordance with the Waste Classification Guidelines: Part 1 Classifying Waste (EPA 2014) as required by the WRMP. This may include classification as General Solid Waste (Non putrescible), Hazardous Waste or Special Waste.

PART C

2046-LECH-002-3	F21 (a) CONSTRUCTION COMPOUND AND ANCILLARY FACILITIES MANAGEMENT PLAN
2046-LECH-003-3	F21 (b) CONSTRUCTION NOISE AND VIBRATION MANAGEMENT PLAN
2046-LECH-009-3	F21 (c) CONTRUCTION TRAFFIC AND ACCESS MANAGEMENT PLAN
2046-LECH-004-3	F21 (d) CONSTRUCTION SOIL AND WATER QUALITY MANAGEMENT PLAN
2046-LECH-005-3	F21 (e) CONSTRUCTION HERITAGE MANAGEMENT PLAN
2046-LECH-006-3	F21 (f) CONSTRUCTION FLORA AND FAUNA MANAGEMENT PLAN
2046-LECH-007-3	F21 (g) CONSTRUCTION AIR QUALITY MANAGEMENT PLAN
2046-LECH-008-3	F21 (h) BUSHFIRE MANAGEMENT PLAN

nacap

A QUANTA SERVICES COMPANY

CONSOLIDATED POWER PROJECTS

A QUANTA SERVICES COMPANY

infigen