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# **Cullerin Range Wind Farm**

## **Annual Environmental Management Report (AEMR)**

<b>Rev</b>	<b>Status</b>	<b>Revision Summary</b>	<b>Originator</b>	<b>Date</b>
0	Final	NA	CT	August 2018

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## ABBREVIATIONS

AEMR	Annual Environmental Management Report
CEP	Community Enhancement Program
CRWF	Cullerin Range Wind Farm
DPE	NSW Department of Planning & Environment
EDL	The EDL Group of companies comprising Energy Developments Pty Ltd and subsidiaries (including Cullerin Range Wind Farm Pty Ltd ABN 38 126 197 126)
EPA	Environment Protection Authority
ERP	Emergency Response Plan
NSW	New South Wales
OEH	NSW Office of Environment and Heritage
OEMP	Operational Environmental Management Plan
RFS	Rural Fire Service
RTA	Road Transport Authority
VENM	Virgin Excavated Natural Material
WTG	Wind Turbine Generator

**Table 1 Annual Review**

<b>Name of Operation</b>	Cullerin Range Wind Farm
<b>Name of Operator</b>	Cullerin Range Wind Farm Pty Ltd
<b>Development consent / project approval #</b>	05_0167
<b>Name of holder of development consent / project approval</b>	Cullerin Range Wind Farm Pty Ltd
<b>Mining lease #</b>	N/A
<b>Name of holder of mining lease</b>	N/A
<b>Water licence #</b>	N/A
<b>Name of holder of water licence</b>	N/A
<b>MOP/RMP start date</b>	N/A
<b>MOP/RMP end date</b>	N/A
<b>Annual Review start date</b>	1 July 2017
<b>Annual Review end date</b>	30 June 2018
<p><b>I, Claudia Townes, certify that this audit report is a true and accurate record of the compliance status of CULLERIN RANGE WIND FARM for the period 1 July 2017 to 30 June 2018 and that I am authorised to make this statement on behalf of Cullerin Range Wind Farm Pty Ltd ABN 38 126 197 126.</b></p> <p>Note.</p> <p>a) The Annual Review is an 'environmental audit' for the purposes of section 9.39 (previously section 122B(2)) of the Environmental Planning and Assessment Act 1979. Section 9.42 (previously section 122E) provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.</p> <p>b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).</p>	
<b>Name of authorised reporting officer</b>	Claudia Townes
<b>Title of authorised reporting officer</b>	Senior Environmental and Compliance Advisor
<b>Signature of authorised reporting officer</b>	
<b>Date</b>	31 August 2018

## 1 STATEMENT OF COMPLIANCE

Table 2 contains a statement of compliance with respect to the relevant site approvals. There was one known non-compliance in relation to the relevant approval conditions outlined in Table 3.

**Table 2 Statement of Compliance**

Were all conditions of the relevant approval(s) complied with?	
Project Approval #05_0167	One minor administrative non-compliance identified
EPA Licence #20430	YES
Scientific Licence #SL1010	YES

**Table 3 Non-compliances**

Relevant approval	Condition #	Condition Description (summary)	Compliance status	Comment	Where addressed in Annual Review
Project approval #05_0167	90	Advertise contact details in newspaper at six-monthly intervals	Non-compliant	Closed: requirement completed one month after the six-monthly interval	Yes
Risk Level	Colour Code	Description			
High	Non-compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence			
Medium	Non-compliant	Non-compliance with: <ul style="list-style-type: none"> <li>- Potential for serious environmental consequences, but is unlikely to occur; or</li> <li>- Potential for moderate environmental consequences, but is likely to occur</li> </ul>			
Low	Non-compliant	Non-compliance with: <ul style="list-style-type: none"> <li>- Potential for moderate environmental consequences, but is unlikely to occur; or</li> <li>- Potential for low environmental consequences but is likely to occur.</li> </ul>			
Administrative	Non-compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions).			

## 2 INTRODUCTION

This Annual Environmental Management Report (AEMR) is submitted in compliance with the Project Approval 05\_0167 for the Cullerin Range Wind Farm (CRWF). This report has been prepared in accordance with the *Annual Review Guideline, October 2015*.

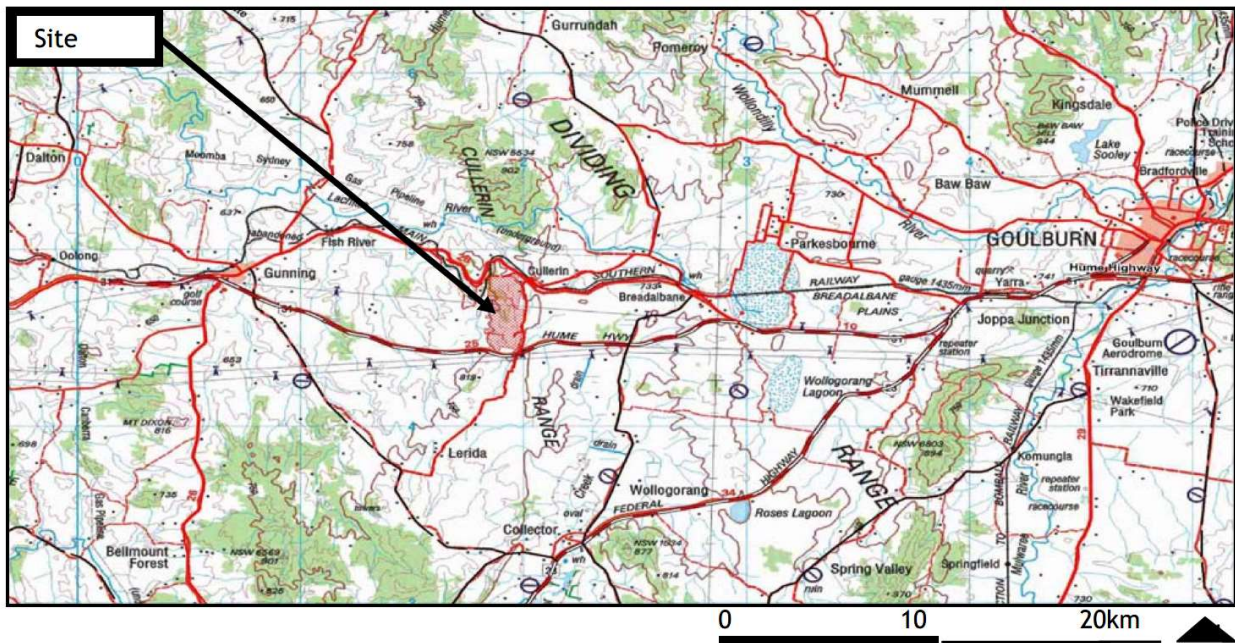
### 2.1 Cullerin Range Wind Farm Description

The site is located within the Southern Tableland of NSW and it is bordered to the south by the Hume Highway and to the north by the Old Hume Highway, approximately 25 km west of Goulburn. Gunning is the nearest town to the site, located approximately 10 km west. The village of Breadalbane is located approximately 8 km to the east. This site extends over two properties. The land occupied by the wind farm site is leased from two property owners who continue to undertake farming enterprises concurrent with the operation of the wind farm.

The operational foot print of the site occurs only on the following leased lots:

- DP 754110 Lots: 58, 135, 189, 192 & 193
- DP 750031 Lots: 214 & 220

The site location is highlighted in Figure 1.



**Figure 1 Cullerin Range Wind Farm Location**

The CRWF involves the operation of 15 x 2 MW wind turbines, mounted on a tubular steel tower 80 m high (operational capacity 30 MW). Associated infrastructure includes:

- Electrical connections between wind turbines using underground cable
- A substation and transmission connection linking the wind turbines to the existing Essential Energy 132 kV transmission system located on the site.
- An onsite control room and equipment storage facilities
- Access roads around the site including minor upgrades to Lerida Road North for installation and maintenance of wind turbines.

The following activities are undertaken at the wind farm:

- Generation of electricity
- Switching turbines on/off depending on the suitability of the wind resource in generating electricity
- Maintenance of turbines, nacelles and towers
- Maintenance of substation
- Maintenance of other electrical infrastructure, including underground cables
- Maintenance of access roads and other civil infrastructure.

The CRWF is manned by a Wind Farm Senior Operations Technician responsible for the environmental management of the operation. Site contact details are:

Wind Farm Senior Operations Technician – Geoff Lloyd	0457 522 617	<a href="mailto:cullerinrangewindfarm@edl.com.au">cullerinrangewindfarm@edl.com.au</a>
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## 2.2 Scope

The reporting period covered in this report is 1 July 2017 to 30 June 2018. This report covers the operational phase of this project, all construction requirements were discussed in the first AEMR (submitted by Origin Energy, the previous owner of Cullerin Range Wind Farm Pty Ltd).

Construction items are only discussed where they remain relevant to the operational phase of the wind farm, and no further discussion is included in this report about requirements for the operational phase which were completed and closed out in previous reporting periods (see Attachment A for list of closed control items).

This report address all requirements in Condition 103 of the Project Approval 05\_0167 as per Table 4 below:

**Table 4 Condition 103 Requirements**

Requirements in condition 103	Location
a) details of compliance with the conditions of this approval;	Section 1 Appendix B C & D
b) a copy of the Complaints Register (referred to in Condition No 91) for the preceding twelve-month period (exclusive of personal details), and details of how these complaints were addressed and resolved;	Section 9
c) a comparison of the environmental impacts and performance of the project against the environmental impacts and performance predicted in those documents listed under Condition 2 of this approval;	Section 6
d) results of all environmental monitoring required under this approval and others, including interpretations and discussion by a suitably qualified person;	Section 6
e) a list of all occasions in the preceding twelve-month period when environmental performance goals for the development have not been achieved, indicating the reason for failure to meet the goals and the action taken to prevent recurrence of that type of incident;	Section 11
f) identification of trends in monitoring data over the life of the project to date;	Section 6
g) a list of variations obtained to approvals applicable to the project and to the site during the preceding twelve month period; and;	Section 3

h) environmental management targets and strategies for the following twelve-month period, taking into account identified trends in monitoring results.

Section 12

### 3 APPROVALS

The approvals in Table 5 are currently held by or for the benefit of Cullerin Range Wind Farm Pty Ltd in relation to the operation. Table 5 shows any changes to those approvals that have occurred during the reporting period.

**Table 5 Approvals**

Approval	Authority	Granted	Anniversary Date	Changes during Reporting Period
Major Project No 05_0167 File No. 9041054	Minister for Planning Department of Planning & Environment (NSW DPE)	21 February 2007	Commencement of operations 1 January 2009	N/A
EPA Licence 20430	Environment Protection Authority (NSW EPA)	7 July 2015	29 September Reviewed 5 yearly	N/A
Scientific Licence SL1010	Office of Environment and Heritage (NSW OEH)	18 Feb 2014	Expires 31 October 2019	Renewed to extend period to 2019

### 4 OPERATIONS SUMMARY

Appendix A contains a summary of the operational controls which have previously been addressed. Appendix B provides an overview of the performance of the Statement of Commitment, Submission Report and Conditions of Approval. Appendix C contains a review of the performance against the EPA Licence conditions. Appendix D contains a review of performance against the Scientific Licence.

There are no alterations to operations planned for the next reporting period.

### 5 ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW

The actions in Table 6 were required from the previous Annual Review.

**Table 6 Actions from the previous Annual Review**

Action required from previous Annual review	Requested by	Action taken by the Operator	Where discussed in Annual Review
Next reporting period AEMR to be consistent with <i>Annual Review Guideline, October 2015</i>	DPE	AEMR prepared to be consistent with <i>Annual Review Guideline, October 2015</i>	Section 2

## 6 ENVIRONMENTAL PERFORMANCE

### 6.1 Environmental Performance Goals

The table below shows an assessment of the environmental performance goals for this reporting period which are consistent with the Operational Environmental Management Plan. Table 7 identifies the key environmental management issues and how they were addressed, any environmental management measures implemented, and any proposed improvements to environmental management or performance.

**Table 7 Environmental Performance**

Aspect	Approval Criteria/EIS Prediction	Performance during the reporting period	Trend/key management implications	Implemented proposed management actions
Noise	Conditions 35 – 46	No noise complaints received	Trend: No complaints	Maintain Noise Management Plan
Blasting	N/A	N/A	N/A	N/A
Air quality	Conditions 74 and 75	No construction activities occurred to require the suppression of dust using a water cart.	No complaints regarding dust management at site	N/A
Biodiversity	Condition 62 – 64	No wedge-tailed eagle deaths reported	Reduction in wedge-tailed eagle deaths from previous reporting period	Maintain Bird and Bat Adaptive Management and Monitoring Program
Heritage	Condition 58	No additional ground disturbing activities have occurred in the reporting period	No heritage disturbed	N/A
Stormwater	Condition 99(c)	Regular checks and maintenance of areas and roads prone to erosion	Road maintenance to prevent erosion Monthly checks	Maintain Stormwater Management Plan

Aspect	Approval Criteria/EIS Prediction	Performance during the reporting period	Trend/key management implications	Implemented proposed management actions
Landscape	Condition 99(d)	Site maintained in accordance with Landscape Management Plan	No visual amenity complaints Monthly checks	Maintain Landscape Management Plan
Waste	Condition 76	Wastes generated on site were appropriately removed and disposed of	Responsible waste tracking and disposal Monthly checks	Maintain Waste Management Plan
Bushfire	Conditions 70 – 72	Maintenance of management strategies in Bushfire Management Plan	No bushfires threatened site	Maintain Bushfire Management Plan
Visual amenity	Conditions 21 – 27	No amenity or shadow flicker complaints received	Trend: no complaints	Maintain Visual Impact Management Plan
Chemical storage	Condition 65	No spill or leaks from bunded areas reported	Compliance with chemical storage requirements	Maintain Chemical & Hydrocarbon Management Plan

## 6.2 Environmental Monitoring

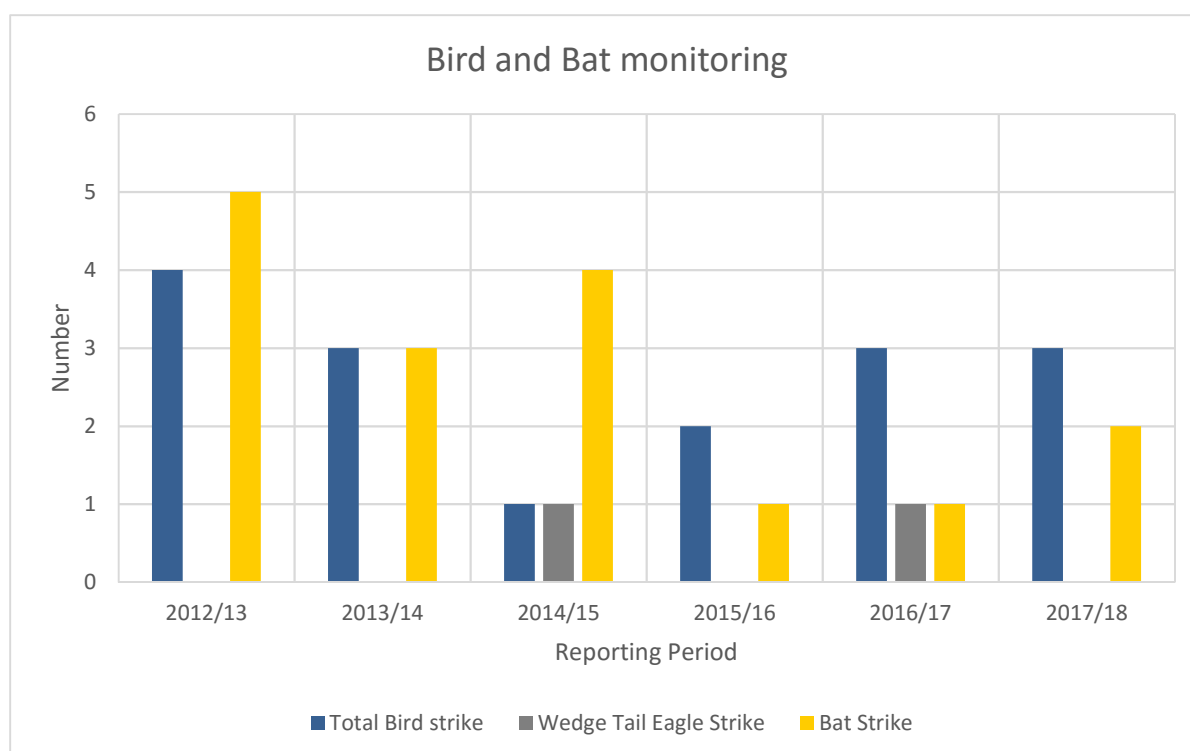
Following the completion of a targeted bird and bat monitoring campaign in July 2013, incidental finds of bird and bat carcasses continue to be recorded for this site.

A review of the incidental finds from July 2012 through to June 2018 shows a total of 16 bat and 16 bird carcasses were found during these six years. All bats were White-striped freetail bats, while 10 different species of birds were recorded. As EDL has only owned Cullerin Range Wind Farm Pty Ltd and operated CRWF since 2016 previous information has been obtained from Origin.

For the reporting period July 2017 to June 2018 three bird carcasses were found: one Hawk, one magpie and one unidentified species as well as two White-striped freetail bats.

The bats were all found during the warmer months of late November through to March.

The chart in Figure 2 indicates a decline trending towards a plateau in the number of strikes of both birds and bats over the past six years of monitoring data.

**Figure 2 Bird and Monitoring data July 2012 to June 2018**

Due to a paucity of information at the time of the Environmental Impact Statement (EIS) preparation and assessment, there was difficulty in accurately predicting the impact of the CRWF on matters of regional biodiversity. The EIS expected that as the CRWF is located parallel to a movement corridor and contains only marginal native vegetation and habitat values it was not anticipated that CRWF would generate a high level of cumulative impact on regional biodiversity. This expectation appears to be consistent with the results of the monitoring program over the past six reporting periods.

## 7 WATER MANAGEMENT

The site does not have a water licence, does not discharge water and no water quality samples are required to be taken. In accordance with the Stormwater Management Plan contained within the Operational Environmental Management Plan (OEMP), remediation works are undertaken where required as part of routine maintenance to control erosion.

## 8 REHABILITATION

The site has not undertaken any decommissioning works during the reporting period, so that no remediation have occurred.

No decommission is planned to be completed during the next reporting period.

## 9 COMMUNITY

The CRWF maintains a Community Enhancement Program (CEP) to fund (to provide in kind) Community initiatives in the locality of the project.

EDL continued to contribute to the CEP during the reporting period. The contribution is adjusted to take account of any increase in the Consumer Price Index and agreement with the DPE.

In the 2017/18 Cullerin Range Wind Farm Community Fund Funding Round five community groups benefitted from a combined total of \$28,451.07. They included:

Organisation	Project	Amount
Breadalbane Cemetery Committee	Purchase of a lawn mower and shed for maintenance of the Breadalbane Cemetery	\$4,818
Upper Lachlan Wood Guild	Upgrade and repair of machinery and purchase of new tools and supplies	\$7,600
Dalton Public Hall Reserve Trust	Repairs to doors and windows of the Dalton Public Hall	\$1,699.97
Gunning District Community Health Service	Purchase of an electricity generator and autoclave sterilisation machine	\$8,602.10
Gunning Golf Club	Repair to toilets and termite damage and eradication of termites at Gunning Golf Club	\$5,731
<b>Total</b>		<b>\$28,451.07</b>

## 9.1 Complaints register

EDL maintains a 24-hour telephone number on which complaints about the project may be registered (1 800 677 315) as well as an e-mail address to which electronic complaints may be transmitted ([cullerinrangewindfarm@edl.com.au](mailto:cullerinrangewindfarm@edl.com.au)). These details are published twice per year in the local community newsletter. During this reporting year these publications occurred on 12 September 2017 and 22 May 2018.

All environmental complaints received about the CRWF are managed using the EDL eWIRF system on SharePoint.

No complaints were received during this reporting period.

## 10 INDEPENDENT AUDIT

An independent audit has not been conducted during the reporting period. As required by Condition of Approval 82 an Independent Environmental Audit was undertaken within two years of the commencement of the project. No further request to commission an environmental audit has been made by the Director-General.

## 11 INCIDENTS AND NON-COMPLIANCES DURING THE REPORTING PERIOD

No reportable incidents was recorded during this reporting period.

There was one administrative non-compliance recorded for Condition 90 of the conditions of project approval 05\_0167. Condition 90 requires the contact details for the site to be published six-monthly in a circulating newspaper. Notification was published in September 2017 and May 2018. This is an interval of greater than six-months.

## **12 ACTIVITIES TO BE COMPLETED IN THE NEXT REPORTING PERIOD**

The proposed targets and strategies for the next reporting period are the same as for this reporting period and in accordance with the Operational Management Plan. These actions include:

- Monthly HSE inspections
- Daily Bird and Bat strike monitoring
- Bi-annual publication of site contact information
- Maintain register of complaints

## APPENDIX A CONTROLS PREVIOUSLY ADDRESSED

Summary of the controls (SoC), Submissions Report (SR), Condition of Approval (CoA) addressed in previous reports and are considered to be closed unless circumstances change.

Aspect	Control	Closed out
Visual impacts - operation	SoC 1, SoC 3	Prior to construction
	SoC 2, SoC 5, SoC 39	AEMR 2011
	CoA 21-22, CoA 99d	Prior to operation
	CoA 23, CoA 27	AEMR 2011
Noise	SoC 7, CoA 35-37, CoA 41- 46,	AEMR 2011
	CoA 28 - 30, SoC 35	Prior to operation
	CoA 38-40	Prior to commissioning
	SoC 8	Prior to construction
Blasting and vibration	CoA 32-34 (NA)	Prior to operation
Social and economic	EA - decommissioning funds set aside	AEMR 2013
	CoA 12, CoA 92, SoC 9, SoC 11	Prior to construction
Biodiversity impact – construction	Section	AEMR 2013
Biodiversity impact – operational	SR –aviation lighting	AEMR 2013
Traffic and Transport	SoC 21	Prior to construction
Air hazard impacts	CoA 26	AEMR 2013
	CoA 75	After construction
	SoC 24, SoC 25, SoC 26,	Prior to construction
Physical (air, soils and landforms, water)	SoC 32, SoC 33, SoC 34	Prior to operation
Aboriginal Archaeology	CoA 58	After construction
	SoC 12, SoC 13	Before construction
Telecommunications impact	SoC 28	AEMR 2011
	CoA 77	Prior to commissioning
	CoA 79	AEMR 2011
General conditions	CoA 3-CoA 7, CoA 9, CoA 14-15	AEMR 2011
	CoA 8, CoA 16 – CoA 22, CoA 51 -53 (NA), CoA 54, CoA 56, CoA 60-61, CoA 64, CoA 66-67, CoA 90, CoA 95 – 97, CoA 101-102, CoA 105, SoC 30, SoC 38, SoC 40	Prior to construction
	CoA 68, CoA 84-85, CoA 87, SoC 36, SoC 37, SoC 41, SoC 19- SoC 23, CoA 24, SoC 4	Prior to operation
	CoA 82-83	AEMR 2012
	CoA 89	After construction
	SoC 18	End of 3 <sup>rd</sup> year of operations

**APPENDIX B STATEMENT OF COMMITMENT (SOC), SUBMISSION REPORT (SR), CONDITIONS OF APPROVAL (COA) - PERFORMANCE**

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
<b>Visual impacts</b>		
CoA 26	<p><b>Lighting</b></p> <p>No external lighting at night of any infrastructure associated with the project including wind turbine generators is permitted other than low intensity security lighting, unless otherwise agreed or directed by the Director-General or Civil Aviation Safety Authority.</p>	<p>No external lighting at night of turbines.</p> <p>No complaints have been received during this reporting period</p>
CoA 27 & SoC 5 & 39	<p>Shadow flicker arising from the operation of the project must not exceed 30 hours/annum at any residence not associated with the project.</p>	<p>No complaints have been received during this reporting period</p>
<b>Operational noise impact</b>		
CoA 81, SoC 6, CoA 99	<p><b>Noise Monitoring — Operation</b></p> <p>Noise compliance monitoring must be conducted in accordance with the Noise Management Plan under Condition No 99(b), or as directed by the Director-General in response to noise complaints.</p>	<p>The Noise monitoring will be undertaken as per the CRWF EMP section 6.3 and this will be undertaken in the event a noise complaint is received.</p> <p>The eWIRF system shows no complaints received for Cullerin this reporting period, so that no noise monitoring was required during this reporting period.</p>
CoA 31	<p>During construction and operation, the Proponent must minimise noise emissions from plant and equipment operated on the site by installing and maintaining, wherever practicable, efficient silencers, low-noise mufflers (residential standard) and replacement of reversing alarms on vehicles with alternative silent measures, such as flashing lights.</p>	<p>The eWIRF system shows no complaints received for Cullerin</p>

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
<b>Social and economic impact</b>		
CoA 93 & SoC 10	Establishment of a community fund and ongoing income stream of \$25,000 per annum for the life of the project to assist local community organisations.	<p>The Community Enhancement Program (CEP) was in place during the reporting period including annual payments of \$25,000 (adjusted by CPI).</p> <p>In the 2017/18 Cullerin Range Wind Farm Community Fund Funding Round five community groups benefitted from a combined total of \$28,451.07</p>
CoA 90	<p>Complaints Management System</p> <p>Prior to the commencement of construction, the Proponent must ensure that the following are available for community complaints:</p> <ul style="list-style-type: none"> <li>(a) a 24-hour telephone number on which complaints about the project may be registered;</li> <li>(b) a postal address to which written complaints may be sent; and</li> <li>(c) an email address to which electronic complaints may be transmitted.</li> </ul> <p>The telephone number, the postal address and the e-mail address must be advertised in a newspaper circulating in the locality on at least one occasion prior to the commencement of construction and at six-monthly intervals thereafter. These details must also be provided on the Proponent's internet site. The telephone number, the postal address and the email address must be maintained throughout the life of the Project.</p>	<p>A telephone complaints line was available during this reporting period. No complaints were received during this reporting period. Details of the complaint channels were advertised in the local community newsletter twice during this reporting period in September 2017 and May 2018. This is an interval of greater than six-months.</p>

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
CoA 91	<p>The Proponent must record details of all complaints received through the means listed under Condition No 90 of this approval in an up-to-date Complaints Register. The Register must record, but not necessarily be limited to:</p> <ul style="list-style-type: none"> <li>a) the date and time, where relevant, of the complaint;</li> <li>b) the means by which the complaint was made (e.g. telephone, mail or email);</li> <li>c) any personal details of the complainant that were provided, or if no details were provided, a note to that effect;</li> <li>d) the nature of the complaint;</li> <li>e) any action(s) taken by the Proponent in relation to the complaint, including any follow-up contact with the complainant; and</li> <li>f) if no action was taken by the Proponent in relation to the complaint, the reason(s) why no action was taken.</li> <li>g) The Complaints Register must be made available for inspection by the DG upon request.</li> </ul>	A complaints register is maintained (eWIRF system). No complaints were received during this reporting period.
<b>Biodiversity impact – operation</b>		
SoC 15	<p>Weed and sediment erosion controls will be implemented during and following the proposed works.</p> <p>After the installation of the infrastructure, disturbed soil should be rehabilitated as soon as practicable in order to resist erosion and colonisation by weeds. This may require restricting stock access and implementing revegetation activities.</p> <p>All vehicles onsite will follow established trails and minimise onsite movements.</p> <p>Chemicals, including fuels and lubricants, will be stored and handled as per manufacturer's instructions. Where practical, they will be stored offsite. Where they must be stored onsite, they will be housed in a secure building bunded to contain any leakages.</p>	Monthly inspections have been undertaken onsite including checks for erosion, stormwater, chemical storage and waste management. During the reporting period, monthly inspection and reporting was undertaken by the on-site Wind Farm Technician who monitored erosion, storm water and waste issues on-site.

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
	Turbines will be designed to accommodate the full capacity of the lubricants contained within.	
SoC 17	Rabbits should be controlled on the turbine ridges, carrion should be removed from the site as quickly as possible, and young lambs should not graze on the turbine ridges. Dams / wet depressions on the main ridge line will be filled to remove the potential to attract microbats, waterbirds and prey for raptors under the turbines. Alternative watering points will be constructed in consultation with affected property owners. (This is only required on properties involved in the project and therefore lease agreements are considered sufficient to compensate for this action).	Pest control (including rabbits) was undertaken by the landowners.  The management of lambing has been discussed with landowners with regard to reducing the risk of eagle strike during this reporting period.
SR	The Assessment of Significance for the Large-footed Myotis (bat) predicted a moderate potential to affect the viability of local populations. An adaptive management monitoring plan and design features were recommended to monitor and manage impacts.	Results to date indicate no significant impact to birds and bats. No Large-footed Myotis have been recorded in carcass searches during this reporting period.
SR	For raptors, the risk of collision was predicted to be related primarily to foraging activity. The aim of the monitoring program was to detect and act on collision levels such levels did not reach unacceptable levels.	A Bird & Bat Management Plan is contained within the current CRWF Operational Environmental Management Plan.  One Hawk was found at the base of WTG8 on 9/2/2018.
SR	The Submissions Report considered the possibility of creating a local population sink, a consequence of situating a wind farm in an area where a naturally high density of a bird species occurs. However, this effect was not anticipated. The monitoring program would safeguard against this risk.	A Bird & Bat Management Plan is contained within the current CRWF Operational Environmental Management Plan. Results to date indicate no significant impact to birds and bats (see Section 6.2).

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
CoA 63	The Proponent must make a financial contribution of \$1500.00 to the NSW Wildlife Information and Rescue Service (WIRES) for each death of a wedge-tailed eagle that has reasonably been attributed to the carrying out of the project. The financial contribution must be paid by the Proponent within one month of the Proponent becoming aware of the death. The contribution must be adjusted to take account of any increase in the Consumer Price Index over time, commencing at the March 2007 quarter.	No payment was required to be made to WIRES during the reporting period.
CoA 80	Birds and bats must be monitored in accordance with the Bird and Bat Adaptive Management Program	<p>Incidental searches under turbines for bird and bat carcasses continue to be undertaken as part of the CRWF Bird and Bat Adaptive Management Program and the conclusions from the report completed in 2016 by Brett Lane Associates (reported in the AEMR last year). The following carcasses were found during this reporting period:</p> <p>Date: 4/09/17 Turbine number: 13 Species: Magpie Distance from turbine: 16 m Bearing from turbine: North</p> <p>Date: 22/01/18 Turbine number: 13 Species: White-striped freetail bat Distance from turbine: - Bearing from turbine: -</p> <p>Date: 09/02/18 Turbine number: 8 Species: Hawk Distance from turbine: at base Bearing from turbine: -</p> <p>Date: 19/02/18 Turbine number: 15</p>

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
		<p>Species: White-striped freetail bat Distance from turbine: at base of stairs Bearing from turbine: -</p> <p>Date: 08/05/18 Turbine number: 13 Species: Bird Distance from turbine: at base Bearing from turbine: -</p>
CoA 99	As part of the OEMP, the Proponent must prepare and implement the following management plans and programs:... A bird management plan...	A Bird & Bat Management Plan is contained within the current CRWF Operational Environmental Management Plan.
<b>Air hazard Impacts – operation</b>		
CoA 69	In the event that aerial weed control and/or fertiliser application is restricted due to the location of the wind turbine generators, the Proponent must fully fund the cost difference between aerial weed spraying/fertiliser application and a reasonable alternative, unless otherwise agreed by the Director-General	<p>No reported impacts to aerial spraying services during this reporting period.</p> <p>There were no events where aerial weed control or fertiliser application was restricted due to the wind turbines and as such CoA 69 was not exercised.</p>
<b>Telecommunications impacts</b>		
SoC 27	Use of equipment complying with the Electromagnetic Emission Standard, AS/NZS 4251.2:1999. In the event that TV is experienced by existing receivers within 5 km of the wind farm, the source and nature of the interference will be investigated	No TV reception community complaints received in this reporting period.
CoA 78	The Proponent must undertake any reasonable and feasible mitigation measures to rectify any television/radio transmission problems reasonably attributable to the project at any residential dwelling located within 5 kilometres of a wind turbine.	No TV reception community complaints received in this reporting period.

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
<b>Fire and bushfire impacts</b>		
SoC 29	A set of protocols will be developed in consultation with the Rural Fire Service in regard to bushfire prevention measures to be implemented onsite during construction, operation and decommissioning phases. These measures will in particular cover hot-work procedures, asset protection zones, safety, communication, site access and response protocols.	A current Bushfire Risk Management Plan (included in the EMP) is operating on-site.  No fire incidents have occurred onsite to date. General site maintenance activities have been undertaken during this reporting period.
CoA 72	As part of the Construction and Operation EMPs in Condition Nos 95 and 98, the Proponent must prepare, in consultation with the local RFS, a <b>Bushfire Risk Management Plan</b> based on the guidelines <i>Planning for Bushfire Protection</i> (RFS, 2001 or its latest edition). The sub plan must include: <ul style="list-style-type: none"> <li>(a) details of the bushfire hazards and risks associated with the project;</li> <li>(b) mitigation measures including contingency plans;</li> <li>(c) procedures and programs for liaison and regular drills with the local RFS; and</li> </ul> procedures for regular fire prevention inspections by the local RFS and implementation of any recommendations.	As above
CoA 70	Throughout the life of the project, the Proponent must regularly consult with the local Rural Fire Service (RFS) to ensure that the local RFS is familiar with the project, including the construction timetable and the final location of all infrastructure on the site. The Proponent must comply with any reasonable request of the local RFS to reduce the risk of bushfire and to enable fast access in emergencies.	The local RFS visited the CRWF on 22/11/2016 Once per year there is a communication with RFS. In the event that there are any issues (i.e. smoke close by) they contact site personnel.

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
CoA 71	The Proponent must: a) ensure that there is appropriate fire- fighting equipment held on site to respond to any fires that may occur at the site during construction and operation of the project; and b) assist the Rural Fire Service and emergency services as much as possible if there is a fire on-site during the project	Firefighting facilities are available on site including two on-site dams, an installed 22,000 litre tank for increased fire water storage capacity and availability and water cart. No change since last reporting period.
<b>Physical impacts (climate, air, water, soils and landforms) – Operation</b>		
CoA 99	As part of the OEMP, the Proponent must prepare and implement the following management plans and programs:... c) a Water Management Plan... e) Waste management plan	A stormwater management plan is included in the site environmental management plan, monthly checks of stormwater drains and erosion are completed.  Waste management was implemented during this reporting period. Contractors manage their own waste
CoA 59	Any fill material brought to site must be Virgin Excavated Natural Material (VENM), as defined under the EPA's publication <i>Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Waste</i> .	No fill material was imported during this reporting period
CoA 74	The Proponent must undertake the project in a manner that minimises or prevents the emission of dust from the site and Lerida Road North, including wind-blown and traffic-generated dust, including ensuring that all vehicles entering or leaving the site and carrying a load that may generate dust emissions are covered at all times, except during loading and unloading.	During this reporting period no vehicles carrying a load that may generate dust emissions were required to enter site.
<b>Safety and health impacts</b>		
CoA 73	a) procedures and programs for the maintenance and testing of the safety related equipment to ensure its integrity over the life of the project; and b) an outline of a documented procedure for the management of change.	a) Maintenance is tracked via the Pronto system b) EDL Management of change process is located in EDL SharePoint.
<b>General conditions of approval</b>		

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
<i>Obligations to Minimize harm to the environment</i>		
CoA 1	The Proponent must implement all practicable measures to prevent or minimise any harm to the environment that may result from the construction, commissioning, operation and decommissioning of the Project.	Operational reporting is being undertaken – bird and bat, soil, water, waste, monthly environmental inspections & reporting, maintenance of complaints and incident register.
<i>Scope of the project</i>		
CoA 2	The Proponent must carry out the project generally in accordance with the EA, SoC, Submissions Report and Conditions of Approval.	AEMR demonstrates this.
<i>General</i>		
CoA 13 & CoA 98	The Proponent must be responsible for and put in place an environmental management system governing the conduct of all persons on the site. The Proponent must prepare and implement an Operation Environmental Management Plan in accordance with the Department's publication entitled Guideline for the Preparation of Environmental Management Plans (2004) or its latest revision. The Plan must include, but not necessarily be limited to:...	A current Operational Environmental Management Plan (OEMP) is in place for this site.
CoA 47	The Proponent must undertake all works affecting any public road (including Crown Roads), its associated road reserve and any public infrastructure in that road reserve, to meet any reasonable requirements that may be specified by the relevant roads authority.	No works in public roads were completed during this reporting period Not applicable
CoA 48	All heavy vehicles associated with the project arriving or departing from the site must use the Hume Highway, Lerida Road North and that portion of the Old Hume Highway (Cullerin Road) between Lerida Road North and the site access point to minimise truck movements along the Old Hume Highway through Breadalbane.	All heavy vehicles avoided the Old Hume Highway through Breadalbane during this reporting period
CoA 62	The Proponent must design, construct, operate and maintain the project in a manner that avoids damage to or loss of the orchid, <i>Diurus aequalis</i> and its habitat.	No orchid, Buttercup Doubletail ( <i>Diurus aequalis</i> ) were found on site during this reporting period (this has never been found on site)

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
SoC 14	Protect the Northern Slope from primary disturbance due to the proposal	No further disturbance occurred during this reporting period
CoA 86	Any damage caused to public infrastructure as a result of the project must be repaired to the satisfaction of Council, or relevant utility provider and within such period as specified by the Council, or relevant utility provider.	No damage was caused to public infrastructure during this reporting period
CoA 88	Subject to confidentiality, the Proponent must make all documents required under this approval publicly available on request.	No requests were received during this reporting period
CoA 100	Within three years of the commencement of operation, and at least every three years thereafter, the Proponent must undertake a formal review of the Operation Environmental Management Plan (OEMP). The review must ensure that the OEMP is up-to-date and all changes to procedures and practices since the previous review have been fully incorporated into the OEMP. The Proponent must notify the D-G and the Council of the completion of each review, and must supply a copy of the updated OEMP to those parties on request.	The OEMP was reviewed during this reporting period. This was reviewed and submitted in July 2017.

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
CoA 103	The Proponent must prepare and submit for the approval of the Director-General, an <b>Annual Environmental Management Report</b> (AEMR) throughout the life of the project, or as otherwise required by the DG. The AEMR must review the performance of the project against the Operation Environmental Management Plan, the conditions of this approval and other licences and approvals relating to the project. The AEMR must include, but not necessarily be limited to:...	The AEMR for this reporting period has been prepared in accordance with the requirement of this CoA and the <i>Annual Review Guideline, October 2015</i> .
	a) details of compliance with the conditions of this approval;	Section 1 Appendix B C & D
	b) a copy of the Complaints Register (referred to in Condition No 91) for the preceding twelve-month period (exclusive of personal details), and details of how these complaints were addressed and resolved;	Section 9
	c) a comparison of the environmental impacts and performance of the project against the environmental impacts and performance predicted in those documents listed under Condition 2 of this approval;	Section 6
	d) results of all environmental monitoring required under this approval and others, including interpretations and discussion by a suitably qualified person;	Section 6
	e) a list of all occasions in the preceding twelve-month period when environmental performance goals for the development have not been achieved, indicating the reason for failure to meet the goals and the action taken to prevent recurrence of that type of incident;	Section 11
	f) identification of trends in monitoring data over the life of the project to date;	Section 6

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
	g) a list of variations obtained to approvals applicable to the project and to the site during the preceding twelvemonth period; and;	Section 3
	h) environmental management targets and strategies for the following twelve-month period, taking into account identified trends in monitoring results.	Section 12
CoA 104	The Proponent must provide copies of the approved annual AEMR to the Council and any agencies required by the D-G with: a) the second and subsequent AEMRs to be submitted within three months of the end of the previous reporting period; and b) the AEMR being made available to the public upon request.	No requests were received during this reporting period.
<b>Environmental representative</b>		
CoA 94	The Proponent must nominate a suitably qualified and experienced Environmental Representative(s) whose appointment requires prior approval of the Director-General.	A suitably qualified experienced environmental representative nomination was approved by the Director General on 22 June 2018. Document is stored on EDL SharePoint System
<b>Decommissioning</b>		
CoA 10	Within one year of decommissioning, the Site must be returned, as far as practicable, to its condition prior to the commencement of Construction.	Not applicable for this reporting period.
CoA 11	If any wind turbine is not used for the generation of electricity for a continuous period of 12 months, it must be decommissioned unless otherwise agreed to by the Director- General.	All turbines generated electricity within this reporting period.
CoA 49	Vegetation must be cleared and maintained for the duration of the construction (and decommissioning) period to ensure safe intersection sight distances are maintained at the junction of the Hume Highway and Lerida Road North in all directions.	Construction has been completed. No decommissioning has been done during this reporting period.

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
CoA 50	<p>Prior to the commencement of construction (and decommissioning), the Proponent must undertake unsealed shoulder widening for the right turn lane on the Hume Highway into Lerida Road North and for the left turn lane on the Hume Highway into Lerida Road North. Design plans of the widening, including the geometric road design and pavement design, must be submitted to the RTA for approval.</p> <p>Following completion of the construction works (and decommissioning), the Proponent must rehabilitate the shoulders to the satisfaction of the RTA.</p>	<p>Construction has been completed. No decommissioning has been done during this reporting period.</p>
CoA 55	<p>During construction (and decommissioning), Lerida Road North, and those portions of Cullerin Road and old Sydney Road used by heavy vehicles, must be maintained in a safe and satisfactory condition at all times by the provision of regular maintenance and grading.</p>	<p>Construction has been completed. No decommissioning has been done during this reporting period</p>
CoA 57	<p>The Proponent must prepare road dilapidation reports, in consultation with Council, for the construction (and decommissioning) route where it traverses Lerida Road North and part of Cullerin Road and old Sydney Road. These reports must be prepared prior to the commencement of construction (and decommissioning) and after construction (and decommissioning) is complete. Copies of the reports must be provided to the Council. Any damage resulting from the construction (or decommissioning) traffic, except that resulting from normal wear and tear, must be repaired at the Proponent's cost. Alternatively, the Proponent may negotiate an alternative arrangement for road damage with the Council.</p>	<p>Construction has been completed. No decommissioning has been done during this reporting period</p>
SoC 16	<p>Retain all hollow bearing trees and locate infrastructure at the maximum distance possible from them, to avoid disturbance to roosting individuals (during construction and decommissioning phase)</p>	<p>Construction has been completed. No decommissioning has been done during this reporting period</p>

Condition #	Condition or Statement of commitment	Implementation of controls (1 July 2017 – 30 June 2018)
SoC 31	<p>Wind turbines, substation, control building, and the associated above ground electricity infrastructure will be removed and the site restored within 12 months of the wind farm being decommissioned. Details will be provided in a Site Restoration Plan.</p> <p>Written evidence will be provided to the Director General, that the lease agreement(s) with the site landowners have adequate provisions to meet the decommissioning requirements, that the site be restored to a similar condition as existed before the development, by way of a specific site restoration plan.</p>	No decommissioning has been done during this reporting period

**APPENDIX C ENVIRONMENTAL PROTECTION LICENCE 20430 - PERFORMANCE**

<b>Environmental Conditions</b>		<b>Implementation of controls (1 July 2017 – 30 June 2018)</b>
A1 (A1.1- A1.3)	Scheduled Activity – Electrical Generation Fee Based Activity – Electrical Works (Wind Farm) Scale – 0 -450 GWh generated	Generation scale not exceeded – Generation in Reporting Period – 111,616 MW
A2 (A2.1- A2.2)	Premises or plant to which this licence applies	No changes were done during this reporting period
A3 (A3.1)	Information supplied to the EPA	No changes were done during this reporting period
P1 (P1.1)	Discharges to Air and Water and application to land	Not applicable, no table included in licence.
L1 (L1.1)	Pollution of waters	No pollution of waters occurred during this reporting period
L2 (L2.1- L2.3)	Waste	Onsite waste segregation requirements are outlined in the CRWF EMP. Very little waste is generated on site. General waste is collected and taken to the local refuse transfer station. Servion manages their own waste. Monthly monitoring is occurring.
L3 (L3.1- L3.5)	Noise	No noise testing was required to be undertaken during this reporting period
O1 (O1.1)	Activities to be undertaken in a competent manner	Site activities undertaken as per the site Operational Environmental Management Plan. Operating procedures are in place Operator training has and continues to be provided as required. Monthly HSE checklists undertaken
O2 (O2.1)	Maintenance of Plant and Equipment	EDL's Pronto system is utilised at CRWF.
O3	Dust	Roads on site are gravelled, speed limits are in place on site. No dust complaints were received during the reporting period
O4	Emergency Response	A site Emergency Response Procedure is in place. This document details specific responses to environmental incidents and conditions.
O5 (O5.1)	Bunding & Spill Management	All fuels, chemicals and lubricant are appropriately stored in secure bunded areas. Spill kits available and serviced on-site

Environmental Conditions		Implementation of controls (1 July 2017 – 30 June 2018)
M1 (M1- M3)	Monitoring Records	Site Environmental monitoring records are kept on EDL SharePoint system. No sample collections were required to be undertaken during this reporting period
M2 (M2.1- M2.3)	Recording of pollution complaints	No complaints were received during this reporting period
M3 (M3.1- M3.3)	Telephone complaints line	A telephone complaints line was available during this reporting period. No complaints were received during this reporting period. Details of the complaint channels were advertised in the local community newsletter twice during this reporting period in September 2017 and May 2018.
R1 (R1.1- R1.8)	Annual Return Documents	The reporting period for the CRWF Environmental Licence is 29/9/17 to 28/9/18. An Annual Return was submitted on 27 November 2017. The annual return is signed by the Company Secretary and the CEO.
R2 (R2.1- R2.2)	Notification of Environmental Harm	No notifications were required to be submitted during this reporting period
R3 (R.3.1- R3.4)	Written Report	No written report (apart from Annual Return) was required to be developed and submitted to the NSW EPA during the reporting period
G1 (G1.1- G1.3)	Copy of licence kept at the premises or plant	Hard copy is kept on site, additionally this licence is available electronically via the EDL SharePoint system

**APPENDIX D SCIENTIFIC LICENCE 101077 - PERFORMANCE**

Licence Conditions		Implementation of controls (1 July 2017 – 30 June 2018)
Specific		
a)	Works in accordance with the “Bird and Bat Adaptive Management Monitoring Program”	All works undertaken were in accordance with the “Bird and Bat Adaptive Management Monitoring Program”
b)	Carcasses may be exported from NSW as required	Not applicable during this reporting period
General		
1	Only person(s) named under licence may undertake work. Licence not transferable.	Only one person named under licence conducted activities.
2	Principal may vary associated parties by maintaining signed and dated register of associates.	Not applicable during this reporting period
3	Licence must be carried at all times while undertaking work	Licence is available on site at all times
4	Parties authorised to conduct specified activities must be provided with a copy of the licence.	Only one person named under licence conducted activities.
5	Must have permission of owner/occupier of the land to use licence	CRWF has a lease agreement with the existing landowners and as such is a recognised occupier of the land.
6	Samples taken under licence must not be sold without approval from environmental agency head or delegate	Samples that are taken are not sold.
7	Collection to be undertaken away from public view	Sample collection does not occur in an area within public view
8	Licensee shall indemnify OEH from and against lawful suits in relation to personal injury or damage received as part of activities undertaken under this licence.	Not applicable during this reporting period CRWF maintains insurances for all related operational and maintenance activities undertaken on site.
Reporting Requirements		
9	Licensee to provide full report of work carried out under licence online via Bionet.	The licence was renewed last year as part of this process an annual report was submitted.
10	Coordinate data supplied to OEH should include measurement of accuracy >0m but < 100m	The licence was renewed last year as part of this process an annual report was submitted.
11	Submit reports online	The licence was renewed last year as part of this process an annual report was submitted.
12	Works that cannot be supplied online should supply report to OEH specifying: Title of project; precise description of locality; results of project	Not applicable for this reporting period
13	Works on NPWS estate require completion of a metadata proforma	Not applicable

Licence Conditions		Implementation of controls (1 July 2017 – 30 June 2018)
14	If undertaking permanent/semi-permanent marking, banding or tagging – provide details to BWT with any renewal application	Not applicable
15	Provide a copy of Final Report to Environmental Agency Head when study completed	Not applicable
<i>Additional Reporting Requirements for consultants</i>		
16	Licences granted to consultants are required to provide a list of sites where work was conducted and copies of reports produced	Not applicable
17	Reports in accordance with conditions 9 to 16 must be provided annually	Not applicable
Projects undertaken on NPWS managed land		
18	Work in NPWS managed lands must have prior written approval of relevant Area	Not applicable
19	Maintain regular contact with NPWS Area Office throughout project	Not applicable
20	Vehicles may only be used on public roads unless otherwise approved	Not applicable