

Project Approval

Section 75J of the *Environmental Planning and Assessment Act 1979*

I, the Minister for Planning, approve the project referred to in Schedule 1, subject to the conditions in Schedule 2.

These conditions are required to:

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

The Hon. Kristina Keneally MP
Minister for Planning

Sydney
S07/01462

24 May 2009

File No:

Modification 1 – 11 April 2014
Modification 2 – June 2016
Modification 3 – December 2016

SCHEDULE 1

Application No:	08_0022
Proponent:	Silverton Wind Farm Developments Pty Ltd
Approval Authority:	Minister for Planning
Land:	See Appendix 1
Project:	Silverton Wind Farm
Critical Infrastructure:	The project is a critical infrastructure project under section 75C of the <i>Environmental Planning and Assessment Act 1979</i> because it met the terms in the Minister for Planning's Order, dated 26 February 2008.

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DEFINITIONS

Aboriginal stakeholders	Aboriginal stakeholders registered for cultural heritage consultation for the project
Ancillary infrastructure	All wind farm infrastructure with the exception of wind turbines, including but not limited to collector substations, switching stations, permanent offices and site compounds, underground and overhead electricity transmission lines and internal roads
BCA	Building Code of Australia
CASA	Civil Aviation Safety Authority
CEEC	Critically endangered ecological community, as defined under the TSC Act
Conditions of this approval	Conditions contained in schedules 1 to 4 inclusive
Construction	The construction of the project, including but not limited to the construction of wind turbines, ancillary infrastructure and road upgrades (excludes geotechnical drilling and surveying)
Curtilage	The land immediately surrounding a residence, including any closely associated buildings or structures where domestic and/or recreational activities take place
Day	The period from 7am to 6pm on Monday to Saturday, and 8am to 6pm on Sundays and public holidays
Decommissioning	The removal of wind turbines and any associated above ground infrastructure
Department	Department of Planning and Environment
DI Lands	Department of Industry - Lands
EA	The environmental assessment for the <i>Silverton Wind Farm</i> , prepared by ngh environmental and dated August 2008, as modified by the: <ul style="list-style-type: none"> • <i>Silverton Wind Farm Preferred Project and Submissions Report</i> prepared by ngh environmental and dated January 2009; and • <i>Silverton Wind Farm Modification 3 Report</i>, prepared by ngh environmental and dated July 2016, and associated submissions report dated October 2016.
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPA	Environment Protection Authority
EPL	Environment Protection Licence issued under the POEO Act
Evening	The period from 6pm to 10pm
Feasible	Feasible relates to engineering considerations and what is practical to build or implement
Heritage Act	<i>Heritage Act 1977</i>
Heritage item	An item as defined under the Heritage Act and/or an Aboriginal Object or Aboriginal Place as defined under the NPW Act
Incident	A set of circumstances that: <ul style="list-style-type: none"> • causes or threatens to cause material harm to the environment; and/or • breaches or exceeds the limits or performance measures/criteria in this approval
Minimise	Implement all reasonable and feasible measures to mitigate the impacts of the project
Minister	Minister for Planning, or delegate
Mitigation	Activities associated with reducing the impacts of the project
Night	The period from 10pm to 7am on Monday to Saturday, and 10pm to 8am on Sundays and NSW Public Holidays
Non-associated residence	Any residence on leasehold land in the Western Division of NSW where the leaseholder has not reached a commercial or in kind agreement with the Proponent in relation to the project. In some cases, this agreement will be restricted. First, it may only cover certain aspects of the project (such as the noise or visual impacts). In such cases, the residence is only associated for those aspects covered by the agreement, and remains a non-associated residence for all those aspects that are not covered by the agreement. Second, while the agreement may cover a certain aspect of the project (such as noise impacts), it may limit the extent of any such impact (by setting absolute noise levels at a residence, for instance). In these cases, the residence is only associated to the extent that the impact is covered by the agreement, and is considered to be non-associated for any impacts that exceed the limits specified in the agreement
NP&W Act	<i>National Parks & Wildlife Act 1974</i>
OEH	Office of Environment and Heritage

Operation	The operation of the project, but does not include commissioning trials of equipment or use of temporary facilities
Over-dimensional	Over-mass and/or over-size/length vehicles
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Pre-construction minor works	Includes the following activities: <ul style="list-style-type: none"> • building/road dilapidation surveys; • investigative drilling, excavation or salvage; • minor clearing or translocation of native vegetation; • establishing temporary site office (in locations meeting the criteria identified in the conditions of this approval); • installation of environmental impact mitigation measures, fencing, enabling works; and • minor access roads and minor adjustments to services/utilities, etc.
Project	The development as described in the EA
Proponent	Silverton Wind Farm Developments Pty Ltd, or any person carrying out the project
Public infrastructure	Linear and related infrastructure that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications
RAAF	Royal Australian Air Force – Aeronautical Information Services
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements
Rehabilitation	The restoration of land disturbed by the project to a good condition, to ensure it is safe, stable and non-polluting
Residence	Any dwelling in existence at the date of this approval
RFS	Rural Fire Service
RMS	Roads and Maritime Services
Secretary	Secretary of the Department, or nominee
Shadow flicker	The flickering effect caused by the intermittent shading of the sun by the rotating blades of the wind turbines
Site	The land defined in Appendix 1
Temporary facilities	Temporary facilities used for the construction and/or decommissioning of the project, including but not limited to temporary site offices and compounds, concrete batching plants, materials storage compounds, maintenance workshops, testing laboratories or material stockpiles
Tourist accommodation facility	Accommodation facilities including backpacker's accommodation, caravan parks, private hotels, motels, guesthouses and bed and breakfast accommodation that are used by travellers for temporary accommodation
Transmission line	The electrical transmission line required to connect the wind farm to the existing high voltage electricity network
TSC Act	<i>Threatened Species Conservation Act 1995</i>
Wind turbine	Turbines used for the generation of electricity by wind, including the tower, blades and associated components

SCHEDULE 2 ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

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

TERMS OF APPROVAL

2. The Proponent must carry out the project:
 - (a) generally in accordance with the EA; and
 - (b) in accordance with the conditions of this approval.

Note: The general layout of the project is shown in Appendix 2.

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

LIMITS ON APPROVAL

Lapse Date

5. If the Proponent has not physically commenced the project by 24 May 2018, this approval will lapse.

Wind Turbines

6. The Proponent may construct, operate and replace or upgrade as necessary up to 167 wind turbines, but must not construct wind turbines B15, B17 and B21.

Notes:

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

Wind Turbine Height

7. No wind turbines may be greater than 180 metres in height (measured from above ground level to the blade tip).

Micro-siting Restrictions

8. The Proponent may micro-site the wind turbines and ancillary infrastructure without further approval provided:
 - (a) no wind turbine is moved more than 250 metres from the relevant GPS coordinates in Appendix 2;
 - (b) no wind turbine is moved closer to residence VL6 from the relevant GPS coordinates in Appendix 2;
 - (c) the wind turbines and ancillary infrastructure do not result in any additional impacts to biodiversity values including high biodiversity value vegetation and threatened fauna;
 - (d) the wind turbines and ancillary infrastructure do not result in any additional impacts to heritage items; and
 - (e) the revised location of the wind turbine and/or ancillary infrastructure would not result in any non-compliance with the conditions of this approval.

Final Layout Plans

9. Prior to the commencement of construction (apart from upgrades to the public road network and pre-construction minor works), the Proponent must submit detailed plans of the final layout of the project to the Secretary, including:
 - (a) details on the micro-siting of any wind turbines and/or ancillary infrastructure;

- (b) identification of impacted vegetation communities and threatened fauna locations and habitat;
- (c) identification of impacted heritage items; and
- (d) the GPS coordinates of the final wind turbine locations.

Should the final layout plans identify any increase in impacts to biodiversity or heritage items than those identified in the EA, the Proponent must seek further approval from the Secretary.

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

NOTIFICATION TO DEPARTMENT

10. Prior to the commencement of the construction, operation and/or decommissioning of the project, the Proponent must notify the Department in writing of the date of commencement.

If the project is to be staged, then the Proponent must:

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

STRUCTURAL ADEQUACY

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

Notes:

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

DEMOLITION

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

PROTECTION OF PUBLIC INFRASTRUCTURE

Umberumberka Reservoir and Pipeline

13. Unless Essential Energy agrees otherwise, the Proponent must ensure the project does not damage the Umberumberka Reservoir or Pipeline.
14. Prior to carrying out any construction on site (apart from the upgrades to the public road network), the Proponent must carry out a dilapidation survey in consultation with Essential Energy of the relevant parts of the Umberumberka Reservoir and Pipeline within 2 kilometres of the approved development on site.

Repair or Relocation of Public Infrastructure

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

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

OPERATION OF PLANT AND EQUIPMENT

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

UPDATING AND STAGING OF STRATEGIES, PLANS OR PROGRAMS

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

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

With agreement of the Secretary, the Proponent may prepare minor revisions to any strategy, plan or program without undertaking consultation with all the parties referred to under the relevant condition of this approval.

Notes:

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

COMMUNITY ENHANCEMENT

18. Within 6 months of the commencement of construction, the Proponent must prepare a Community Enhancement Program for the project to the satisfaction of the Secretary. This program must:
- (a) be prepared in consultation with Broken Hill City Council, the Silverton Village Committee and the Community Consultative Committee for the project;
 - (b) establish clear governance arrangements for the Silverton Community Fund; and
 - (c) describe the measures that would be implemented to give effect to the commitments in Appendix 3.

Following the Secretary's approval, the Proponent must implement the Community Enhancement Program.

SCHEDULE 3 ENVIRONMENTAL CONDITIONS - GENERAL

VISUAL

Visual Impact Mitigation

1. For a period of 3 years from the commencement of construction, the owner(s) of any residence or tourist accommodation facility within 6 kilometres of any wind turbine, may request additional visual mitigation measures at their residence. Upon receiving a written request from these owner(s), the Proponent must implement visual impact mitigation measures (such as landscaping and vegetation screening) at the residence (including its curtilage) in consultation with the landowner.

These mitigation measures must be reasonable and feasible, directed towards reducing the visual impacts of the wind turbines on the residence (including its curtilage), and commensurate with the level of visual impact.

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

If the Proponent and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Secretary for resolution. The Secretary's decision on such a referral will be final and binding on both parties.

Notes:

- *To avoid any doubt, the visual impact mitigation measures must be aimed at reducing the visibility of the wind turbines from the residence and/or tourist accommodation facility and its curtilage. Mitigation measures are not required to be implemented to reduce the visibility of wind turbines from other locations on the property.*
- *In some cases, mitigation measures may not be warranted as the wind turbines would not be visible from the receiver or its curtilage.*
- *The identification of appropriate visual impact mitigation measures will be easier following the construction of the wind turbines. While owners may ask for the implementation of visual impact mitigation measures shortly after the commencement of construction, they should consider the merits of delaying this request until the wind turbines are visible from their location.*

2. Prior to the commencement of construction, the Proponent must notify the relevant owners of the residences or tourist accommodation facility referred to in condition 1 above, that they have the right to request the Proponent to implement visual impact mitigation measures at their residence (including its curtilage) at any time within 3 years of the commencement of construction.

Visual Appearance

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

Lighting

4. The Proponent must:
 - (a) minimise the off-site lighting impacts of the project;
 - (b) ensure that all external lighting associated with the project:
 - is installed as low intensity lighting (except where required for safety or emergency purposes);
 - does not shine above the horizontal;
 - uses best management practice for bat deterrence; and
 - complies with *Australian Standard AS4282 (INT) 1997 – Control of Obtrusive Effects of Outdoor Lighting*, or its latest version.

Shadow Flicker

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

NOISE

Construction and Decommissioning Noise

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

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

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

Operational Noise Criteria – Wind Turbines

8. The Proponent must ensure that the noise generated by the operation of wind turbines does not exceed the relevant criteria in Table 1 at any non-associated residence.

Table 1: Noise criteria dB(A)

Residence Id	Criteria (dB(A)) with Reference to Hub Height Wind Speed (m/s)								
	4	5	6	7	8	9	10	11	12
VL9, 10, 11, 12, 14, 15, 16, 17a, 17b, 18, 19, 20, 21, 22, 24a, 24b, 25a, 25b, 28a, 28b, 29	35	35	35	35	35	35	35	36	38
VL6	38	39	40	40	41	42	43	45	46
All other privately owned non-associated residences	The higher of 35 dB(A), or the existing background noise level L _{A90} (10-minute) plus 5 dB(A).								

Note: To interpret the land referred to in Table 1, see the applicable figures in Appendix 2.

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

Operational Noise Criteria – Ancillary Infrastructure

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

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

Operational Noise Monitoring

10. Within 6 months of the commencement of operations, the Proponent must:
- (a) undertake noise monitoring to determine whether the project is complying with the relevant conditions of this approval; and
 - (b) submit a copy of the monitoring results to the Department and the EPA.

The Proponent must undertake further noise monitoring of the project if required by the Secretary.

BLASTING

Blasting Hours

11. The Proponent may only carry out blasting on site between 9 am and 5 pm Monday to Saturday. No blasting is allowed on Sundays or public holidays.

Blasting Criteria

12. The Proponent must ensure that any blasting carried out on site does not result in any exceedances of the criteria in Table 2.

Table 2: Blasting criteria

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

AIR

13. The Proponent must minimise the:
- (a) dust and blast fume emissions of the project; and
 - (b) surface disturbance of the site.

SOILS & WATER

Water Supply

14. The Proponent must ensure that it has sufficient water for all stages of the project, and if necessary, adjust the scale of its activities on site to match its available water supply.

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

Water Pollution

15. Unless an EPL authorises otherwise, the Proponent must comply with section 120 of the *Protection of the Environment Operations Act 1997*.

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

Operating Conditions

16. The Proponent must:
- (a) minimise any soil erosion associated with the construction and decommissioning of the project by implementing the relevant mitigation measures in *Managing Urban Stormwater: Soils and Construction Manual* (Landcom 2004), or its latest version;
 - (b) ensure all waterway crossings are constructed in accordance with the relevant *Water Guidelines for Controlled Activities on Waterfront Land (2012)*, or their latest version;
 - (c) store and handle all dangerous goods or hazardous materials on site, and ensure the concrete batching plants and substations on site are bunded, in accordance with *AS1940-2004: The storage and handling of flammable and combustible liquids*, or its latest version; and
 - (d) minimise any hydrocarbon spills on site, and clean up any spills as soon as possible after they occur.

BIODIVERSITY

Operating Conditions

17. The Proponent must:
- ensure that no more than
 - 0.81 hectares of Porcupine Grass Sparse Woodland CEEC; and
 - 0.54 hectares of the Mulga/Red Mallee Shrubland and Chenopod – Red Mallee Woodland /Shrubland;is cleared for the project, unless the Secretary agrees otherwise;
 - ensure wind turbines are located as far as possible, but at least 200 metres, from raptor nests unless the Secretary agrees otherwise;
 - ensure no development occurs in mapped Barrier Range Dragon habitat hotspots (see figure in Appendix 5);
 - locate wind turbines as far as practicable away from treed vegetation, rocky outcrops, caves or disused mine shafts/sites;
 - minimise:
 - impacts on the Barrier Range Dragon;
 - impacts on threatened bird and bat populations;
 - the clearing of native woodland vegetation and fauna habitat, in particular spinifex habitat, standing dead trees and woody habitat and high biodiversity value vegetation communities; and
 - enhance the Porcupine Grass Sparse Woodland CEEC on site (see figure in Appendix 5) to ensure there is a net gain in the conservation value of this community.

Biodiversity Management Plan

18. Prior to the commencement of construction, the Proponent must prepare a Biodiversity Management Plan for the project in consultation with OEH, DI Lands and local leaseholders on site, and to the satisfaction of the Secretary. This plan must:
- include updated baseline mapping of the vegetation communities and key fauna habitat on site;
 - clearly identify the areas on site that would be disturbed;
 - include a:
 - description of the measures that would be implemented for:
 - minimising the amount of clearing within the approved project footprint;
 - minimising the loss of key fauna habitat;
 - minimising the impacts on fauna on site, including undertaking pre-clearance surveys;
 - rehabilitating and revegetating temporary disturbance areas;
 - protecting vegetation and fauna habitat outside the approved disturbance area;
 - maximising the salvage of resources within the approved disturbance area - including rocks, vegetation and soil resources - for beneficial reuse (including revegetation and fauna habitat enhancement) on site;
 - collecting and propagating seed (where relevant);
 - controlling weeds and feral pests;
 - controlling erosion;
 - controlling access; and
 - bushfire management;
 - Recovery Plan for enhancing the conservation value of the Porcupine Grass Sparse Woodland CEEC on site, that includes:
 - baseline data on the vegetation and fauna habitat within the community; and
 - detailed performance and completion criteria for evaluating the performance of the enhancement activities;
 - Barrier Range Dragon Management Plan for minimising any impacts on the species on site and enhancing the potential habitat for this species;
 - Goat Management Plan for the site;
 - Vegetation Management Plan for restoring vegetation and habitat in the temporary disturbance areas and clearing vegetation for transmission line maintenance; and
 - include a detailed program to monitor and report on the performance of these measures.

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

Bird and Bat Adaptive Management Plan

19. Prior to the construction of any wind turbines, the Proponent must prepare a Bird and Bat Adaptive Management Plan for the project in consultation with OEH to the satisfaction of the Secretary. This program must include:
- baseline data on threatened and 'at risk' bird and bat species and populations in the locality that could potentially be affected by the project;
 - a detailed description of the measures that would be implemented on site for minimising bird and bat strike during the project, including:

- locating turbines as far as possible away from any raptor nests;
 - minimising the availability of raptor perches;
 - prompt carcass removal;
 - controlling pests;
 - using best practice methods for bat deterrence; and
 - adaptive management of turbines to reduce mortality; and
- (c) trigger levels for further investigation of the potential impacts of the project on particular bird or bat species or populations, and the potential implementation of measures to enhance or protect these species or populations in the locality; and
- (d) a detailed program to monitor and report on the effectiveness of these measures, and any bird or bat strikes on site.

Following the Secretary's approval, the Proponent must implement the Bird and Bat Adaptive Management Plan, and incorporate it into the Biodiversity Management Plan.

HERITAGE

Protection of Heritage Items

20. The Proponent must ensure the project does not cause any direct or indirect impact on the heritage items identified in Table 3.

Table 3: Heritage Items

<i>Indigenous Heritage Item</i>	<i>Historic Heritage Item</i>
SU 268/L3	SU 53/HS1
SU 277/L2	SU 235/HS1
	SU 239/HS1

Heritage Management Plan

21. Prior to the commencement of construction, the Proponent must prepare a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must:
- (a) be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Secretary;
 - (b) be prepared in consultation with OEH, Aboriginal stakeholders (in relation to Aboriginal heritage) and any local historical organisations (in relation to historical heritage);
 - (c) include updated baseline mapping of the heritage items on site (see the figures and tables in Appendix 6);
 - (d) include a description of the measures that would be implemented for:
 - managing the discovery of human remains or previously unidentified heritage items;
 - conducting further archaeological and heritage assessment in any disturbance areas where this assessment has not already been carried out; and
 - ensuring any workers on site receive suitable heritage inductions prior to carrying out any work on site;
 - (e) include the following for the management of Aboriginal heritage:
 - a description of the measures that would be implemented to:
 - protect the heritage items outside the project disturbance area;
 - minimise and manage the impacts of the project on heritage items within the disturbance area, including:
 - any proposed archaeological investigations and/or salvage measures; and
 - a strategy for the long-term management of any items or material that are collected during any of these archaeological or works;
 - monitor and report on the effectiveness of any mitigation measures and any heritage impacts of the project;
 - maintain and manage reasonable access for Aboriginal stakeholders to heritage items on site; and
 - provide for ongoing consultation with Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage on site;
 - (f) include the following for the management of historic heritage:
 - a description of the measures that would be implemented to:
 - protect the heritage items outside the project disturbance area;
 - minimise and manage the impacts of the project on heritage items within the disturbance area, including:
 - archaeological test excavations or salvage of all sites of local significance in accordance with the NSW Heritage Manual; and
 - photographic and archival recording of all heritage items that would be affected by the project; and

- monitor and report on the effectiveness of these measures and any heritage impacts of the project.

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

TRAFFIC

Designated Heavy or Over-Dimensional Vehicle Routes

22. The Proponent must ensure that all heavy or over-dimensional vehicles entering or leaving the site use the designated heavy and over-dimensional vehicle route for the project (see the figure in Appendix 7).
23. The Proponent must minimise the use of the designated heavy and over-dimensional vehicle route to the west of the Silverton Road/Daydream Mine Road intersection during the project.

Road Upgrade and Maintenance Strategy

24. Prior to carrying out any construction, or the decommissioning of the project, the Proponent must prepare a Road Upgrade and Maintenance Strategy for the project in consultation with RMS, DI Lands and Broken Hill City Council, to the satisfaction of the Secretary. The strategy must:
 - (a) identify the road upgrades required for the project; and
 - (b) include a program for:
 - the implementation of the road upgrades; and
 - the maintenance of the relevant sections of the road network following the upgrades.

Following the Secretary's approval, the Proponent must implement the Road Upgrade and Maintenance Strategy.

Road Upgrades and Maintenance

25. The Proponent must carry out all the road works identified in the Road Upgrade and Maintenance Strategy to the satisfaction of the relevant roads authority.

Operating Conditions

26. The Proponent must ensure that:
 - (a) project-related traffic does not track mud or dirt onto the public road network;
 - (b) loaded vehicles entering or leaving the site have their loads covered or contained;
 - (c) there is sufficient parking on site for all project-related traffic;
 - (d) deliveries to the site are scheduled to avoid heavy or over-dimensional vehicles passing through Broken Hill during peak hours (ie. between 8:30 am and 9:30 am and 2:30 pm and 3:30 pm); and
 - (e) construction and decommissioning activities are coordinated to minimise any disruption to local tourist events.

Traffic Management Plan

27. Prior to the commencement of construction, the Proponent must prepare a Traffic Management Plan for the project, in consultation with RMS, DI Lands and Broken Hill City Council, and to the satisfaction of the Secretary. This plan must detail the measures that would be implemented to:
 - (a) minimise the traffic safety impacts of the project and disruption to local road users during the construction and decommissioning of the project, including:
 - temporary traffic controls, including detours and signage;
 - notifying the local community about project-related traffic impacts;
 - responding to any emergency repair or maintenance requirements;
 - implementing a strategy for minimising the traffic impacts associated with the use of over-dimensional vehicles;
 - (b) ensure the project does not disrupt the use of any travelling stock route on site;
 - (c) comply with the traffic-related conditions in this approval; and
 - (d) include a drivers code of conduct that addresses:
 - travelling speeds;
 - procedures to ensure that drivers adhere to the designated heavy and over-dimensional vehicle routes;
 - procedures to ensure that drivers implement safe driving practices, particularly if using roads through Broken Hill or Silverton; and
 - monitor and report on the effectiveness of these measures and the code of conduct.

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

AVIATION

Notification of Aviation Authorities

28. Prior to the construction of any wind turbine or wind monitoring mast, the Proponent must provide the following information to CASA, Airservices Australia, Broken Hill City Council and the RAAF (together the authorities):
- (a) coordinates in latitude and longitude of each wind turbine and mast;
 - (b) final height of each wind turbine and mast in Australian Height Datum; and
 - (c) ground level at the base of each wind turbine and mast in Australian Height Datum.
29. Within 30 days of the practical completion of any turbine or mast, the Proponent must:
- (a) provide confirmation to the authorities that the information that was previously provided remains accurate; or
 - (b) update the information previously provided.

RADIOCOMMUNICATIONS

30. Prior to the commencement of construction, the Proponent must undertake a baseline assessment of radiocommunication services to assess the pre-existing signal strength at any residence within 5 kilometres of the site, in consultation with registered communications licence holders (including emergency services).

If this assessment identifies the potential for interference as a result of the project, the Proponent must identify and implement reasonable and feasible mitigation measures to address any potential disruption in consultation with the landowner (where applicable). These measures must be implemented within 3 months of the completion of the baseline assessment, or as otherwise agreed by the Secretary.

31. If the project disrupts any radiocommunications services in the area, then the Proponent must make good any disruption to these services as soon as possible following the disruption of the services, but no later than 1 month following the disruption, unless the relevant service providers or user or Secretary agrees otherwise. If there is a dispute about the mitigation measures to be implemented or the implementation of these mitigation measures, then either party may refer the matter to the Secretary for resolution. The Secretary's decision on such a referral will be final and binding on all parties.

BUSHFIRE

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

SAFETY

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

WASTE

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

REHABILITATION & DECOMMISSIONING

Rehabilitation Objectives

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

Table 4: Rehabilitation Objectives

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

Progressive Rehabilitation

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

Dismantling of Wind Turbines

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

SCHEDULE 4 ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

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

Following the Secretary's approval, the Proponent must implement the Environmental Management Strategy.

Adaptive Management

2. The Proponent must assess and manage project-related risks to ensure that there are no exceedances of the criteria and/or performance measures in schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this approval and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where an exceedance of these criteria and/or performance measures has occurred, the Proponent must, at the earliest opportunity:

- (a) take all reasonable and feasible steps to ensure that the exceedance ceases and does not recur,
- (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
- (c) implement remediation measures as directed by the Secretary.

Revision of Strategies, Plans and Programs

3. Within 3 months of the submission of:
 - (a) an incident report under condition 5 below;
 - (b) an audit report under condition 7 below; or
 - (c) any modification to the conditions of this approval (unless the conditions require otherwise),the Proponent must review and, if necessary, revise the strategies, plans and programs required under this approval to the satisfaction of the Secretary. Where this review leads to revisions in any such document, then within 4 weeks of the review the revised document must be submitted to the Secretary for approval.

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

Community Consultative Committee

4. From the commencement of construction, the Proponent must operate a Community Consultative Committee (CCC) for the project to the satisfaction of the Secretary, in accordance with the *Community Consultative Committee Guidelines for State Significant Projects* (2016) or its latest version.

REPORTING

Incident Reporting

5. The Proponent shall immediately notify the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the project, the Proponent shall notify the Secretary and any other relevant agencies as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of the date of the incident, the Proponent shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.

Regular Reporting

6. The Proponent must provide regular reporting on the environmental performance of the project on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this approval.

AUDITING

7. 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:
 - (a) be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
 - (b) include consultation with the relevant agencies;
 - (c) assess the environmental performance of the project and assess whether it is complying with the requirements in this approval and any relevant EPL/s;
 - (d) review the adequacy of any approved strategy, plan or program required under the abovementioned approvals; and
 - (e) recommend measures or actions to improve the environmental performance of the project, and/or any strategy, plan or program required under these approvals.

Note: This audit team must be led by a suitably qualified auditor and/or experts in any other fields specified by the Secretary.

8. Within 3 months of commissioning this audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

ACCESS TO INFORMATION

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

APPENDIX 1 SCHEDULE OF LAND

Schedule of Lands - Wind Farm Site

LOT/DP
1772/763691
2525/764488
2524/764487
5347/768258
5380/768291
5381/768292
5366/768277
5364/768275
71/760633
2523/764486
5379/768290
5365/768276
5348/768259
43/760242
6482/769311
6481/769310
2526/764489
5373/768284
5398/768309
5374/768285
47/760243

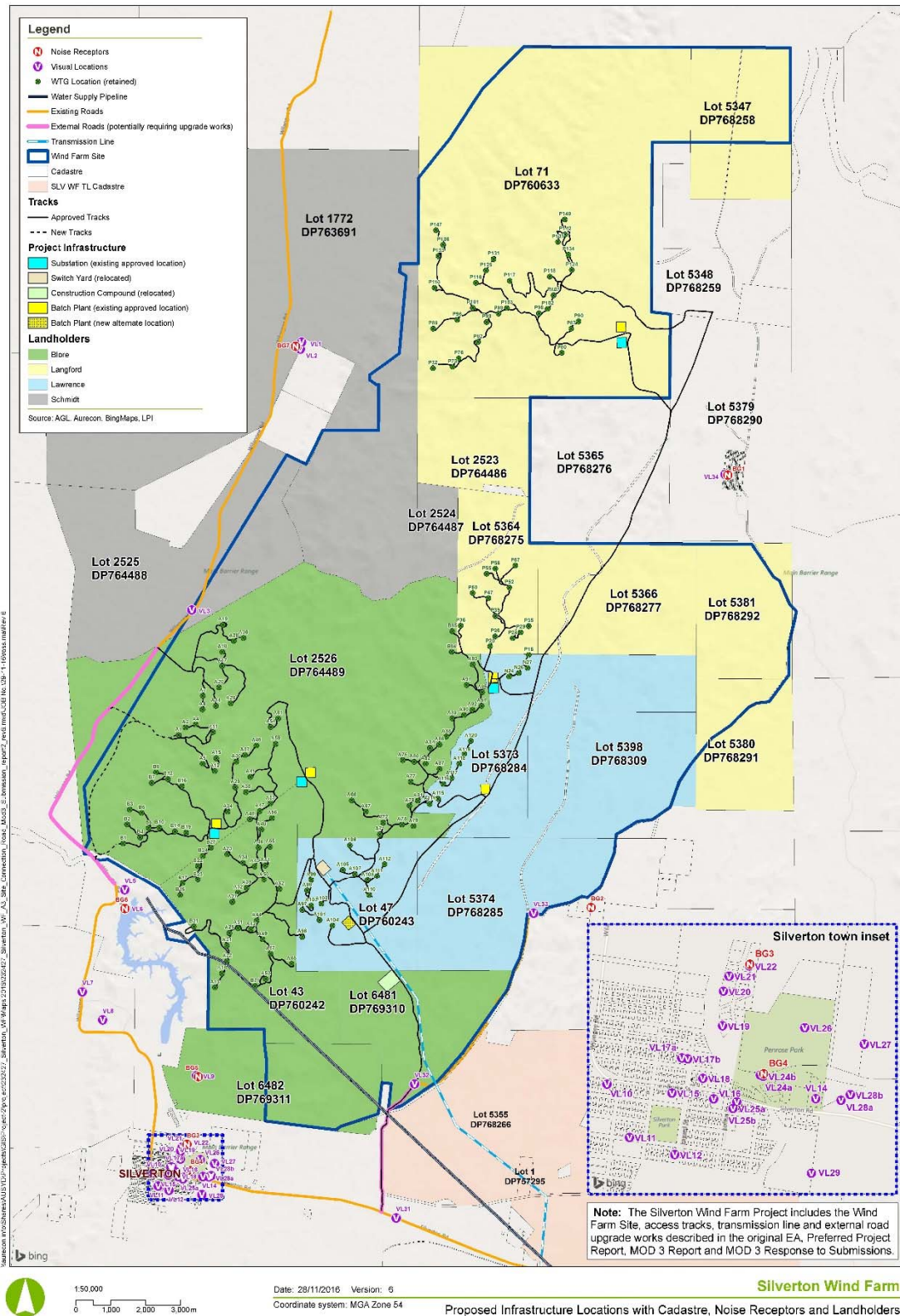
Electricity Transmission Line route, wind farm to Broken Hill substation

LOT/DP
2/1102040
1/533250
7300/1179131
6427/769285
6667/822054
7301/1181196
6672/822014
1/757295
5355/768266
6481/769310
47/760243

The project site will also be taken to include any land which is required for the road upgrades specified in Schedule 3.

APPENDIX 2 PROJECT LAYOUT PLANS

aurecon



GDA 1994 MGA Zone 54 Coordinates

Turbine	Easting	Northing	Leaseholder
A001	521255	6484972	Belmont
A002	521451	6485194	Belmont
A004	521748	6485275	Belmont
A005	521944	6484148	Belmont
A006	521937	6485705	Belmont
A007	521950	6486096	Belmont
A011	522244	6485055	Belmont
A012	522296	6483936	Belmont
A013	522300	6477700	Belmont
A014	522326	6485809	Belmont
A015	522337	6484306	Belmont
A016	522498	6478109	Belmont
A017	522501	6486951	Belmont
A018	522506	6487354	Belmont
A019	522523	6488136	Belmont
A020	522414	6486340	Belmont
A021	522639	6478912	Belmont
A022	522647	6478457	Belmont
A023	522649	6481544	Belmont
A024	522666	6482765	Belmont
A025	522709	6479262	Belmont
A026	522753	6485885	Belmont
A027	522800	6480150	Belmont
A028	522840	6487673	Belmont
A029	522880	6483469	Belmont
A030	522910	6484211	Belmont
A031	522959	6479400	Belmont
A032	522958	6480422	Belmont
A034	523099	6481299	Belmont
A036	523116	6487761	Belmont
A037	523158	6484397	Belmont
A038	523190	6483332	Belmont
A039	523209	6480558	Belmont
A040	523301	6482548	Belmont
A041	523318	6483767	Belmont
A042	523333	6479363	Belmont
A043	523438	6481194	Belmont
A044	523500	6479619	Belmont
A045	523486	6484672	Belmont
A046	523550	6481737	Belmont
A047	523584	6482784	Belmont
A048	523629	6482252	Belmont

Turbine	Easting	Northing	Leaseholder
A049	523666	6479088	Belmont
A050	523705	6480803	Belmont
A051	523741	6481218	Belmont
A052	523751	6477950	Belmont
A053	523888	6483006	Belmont
A054	523902	6485206	Belmont
A055	523877	6481759	Belmont
A056	523942	6482584	Belmont
A057	523889	6478671	Belmont
A059	524041	6484718	Belmont
A061	524115	6485450	Belmont
A062	524150	6480523	Belmont
A065	524498	6478381	Belmont
A066	526224	6483094	Belmont
A067	526630	6482769	Belmont
A071	527037	6482118	Belmont
A072	527128	6482454	Belmont
A075	527670	6482396	Belmont
A076	527690	6484252	Belmont
A077	527923	6483630	Belmont
A078	527886	6482939	Belmont
A079	528001	6482353	Belmont
A080	528020	6484202	Belmont
A081	528131	6483084	Belmont
A082	528347	6484148	Belmont
A084	528472	6484598	Belmont
A086	528748	6484699	Belmont
A087	528749	6483997	Belmont
A088	528942	6484929	Belmont
A089	529104	6485451	Belmont
A090	529444	6485547	Belmont
A091	529523	6486409	Belmont
A092	529690	6485698	Belmont
A093	529699	6486999	Belmont
A094	529954	6485809	Belmont
A095	529977	6486200	Belmont
A096	524805	6479151	9 Mile
A097	524804	6479923	9 Mile
A098	524945	6480485	9 Mile
A099	525061	6480798	9 Mile
A100	525063	6480046	9 Mile
A101	525300	6479630	9 Mile
A102	525355	6480100	9 Mile
A104	525673	6479474	9 Mile

Turbine	Easting	Northing	Leaseholder
A105	525966	6481089	9 Mile
A106	526174	6481803	9 Mile
A107	526318	6480971	9 Mile
A108	526684	6480801	9 Mile
A110	526728	6480353	9 Mile
A111	526951	6480907	9 Mile
A112	527172	6481256	9 Mile
A114	528466	6482991	9 Mile
A115	528707	6483144	9 Mile
A116	528855	6483562	9 Mile
A117	529094	6483730	9 Mile
A118	529312	6484147	9 Mile
A119	529461	6484431	9 Mile
A120	529650	6484801	9 Mile
B001	519665	6481857	Belmont
B002	519773	6482400	Belmont
B003	519854	6482829	Belmont
B004	520150	6482029	Belmont
B005	520192	6482731	Belmont
B006	520388	6482299	Belmont
B007	520483	6483596	Belmont
B008	520608	6483900	Belmont
B010	520702	6482304	Belmont
B012	520949	6483703	Belmont
B014	521145	6482200	Belmont
B015	521301	6480351	Belmont
B016	521349	6483500	Belmont
B017	521371	6480702	Belmont
B019	521470	6482164	Belmont
B021	521691	6479443	Belmont
B022	521805	6481201	Belmont
B023	521807	6480803	Belmont
B024	521951	6481497	Belmont
B027	522182	6481734	Belmont
B031	523446	6477745	Belmont
B084	529096	6487357	Belmont
B085	529117	6487949	Belmont
N024	530746	6486651	9 Mile
N026	531028	6486754	9 Mile
N027	531274	6486898	9 Mile
P016	531310	6487272	9 Mile
P020	530198	6487515	Purnamoota
P024	530847	6487753	Purnamoota
P026	530348	6487806	Purnamoota
P029	531079	6487920	Purnamoota

Turbine	Easting	Northing	Leaseholder
P035	531311	6488098	Purnamoota
P036	529353	6488113	Purnamoota
P039	530352	6488391	Purnamoota
P047	530154	6488900	Purnamoota
P050	529701	6489049	Purnamoota
P052	530753	6489205	Purnamoota
P055	530102	6489602	Purnamoota
P056	530349	6489749	Purnamoota
P057	530924	6489840	Purnamoota
P072	528555	6495507	Purnamoota
P073	529121	6495550	Purnamoota
P076	529301	6495791	Purnamoota
P080	532258	6495951	Purnamoota
P082	529855	6496260	Purnamoota
P087	532532	6496648	Purnamoota
P089	528562	6496646	Purnamoota
P090	532743	6496855	Purnamoota
P093	530103	6496838	Purnamoota
P096	529254	6496902	Purnamoota
P098	531600	6497087	Purnamoota
P099	530442	6497080	Purnamoota
P101	529705	6497245	Purnamoota
P102	531854	6497219	Purnamoota
P103	530680	6497240	Purnamoota
P107	532020	6497604	Purnamoota
P113	528603	6497818	Purnamoota
P116	529793	6497961	Purnamoota
P117	530762	6498021	Purnamoota
P118	531914	6498144	Purnamoota
P124	532544	6498333	Purnamoota
P125	530082	6498319	Purnamoota
P131	530298	6498647	Purnamoota
P133	528708	6498730	Purnamoota
P134	532446	6498773	Purnamoota
P136	528853	6499056	Purnamoota
P137	532149	6499142	Purnamoota
P142	532351	6499357	Purnamoota
P147	528643	6499477	Purnamoota
P149	532347	6499786	Purnamoota

APPENDIX 3

COMMUNITY ENHANCEMENT COMMITMENTS

The Proponent commits to the following community enhancement initiatives:

Silverton Community Fund

1. The Proponent will establish a Silverton Community Fund of \$15,000 per annum, with the objective to broaden the environmental and community benefits of the wind farm within the local Silverton Community (ie. within 10 km of the project).
2. The Proponent will establish a structure for the administration of the Community Fund in consultation with the local community, in particular the Silverton Village Committee, CCC and Council. This will include:
 - development of guidelines and eligibility criteria for applicants wishing to apply for funding;
 - establishment of an independent panel made up of representatives of the Silverton local community, Silverton Village Committee, the CCC and the Proponent (if required); and
 - development of assessment criteria to be used by the panel to assess applications.

Solar Silverton Program

1. The Proponent will offer solar power systems (sometimes call PV or photovoltaic – 5kW) for residences within 10 km of the project.
2. The Solar Silverton Program will commence at the start of construction and be completed within two years of completion of construction.
3. Due to the heritage qualities of Silverton, not all residences may be suitable for installation of solar equipment, and the Proponent will ensure heritage issues are taken into account.

Water Tank Program

1. The Proponent will provide (on request) a domestic sized water tank to all inhabited residences within 10 km of the project.

Mobile Reception Program

1. The Proponent will undertake a feasibility study during the construction phase of the project for improving mobile reception for the Silverton community.
2. The Proponent will contribute up to \$50,000 for mobile reception improvement works or allow this \$50,000 (or the balance of funds) to be put towards other community improvement projects as agreed with the Silverton Village Committee.

APPENDIX 4

NOISE COMPLIANCE ASSESSMENT

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

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

The modifications are as follows:

Tonality

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

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

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

Low Frequency Noise

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

Notes:

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

PART B: NOISE COMPLIANCE ASSESSMENT

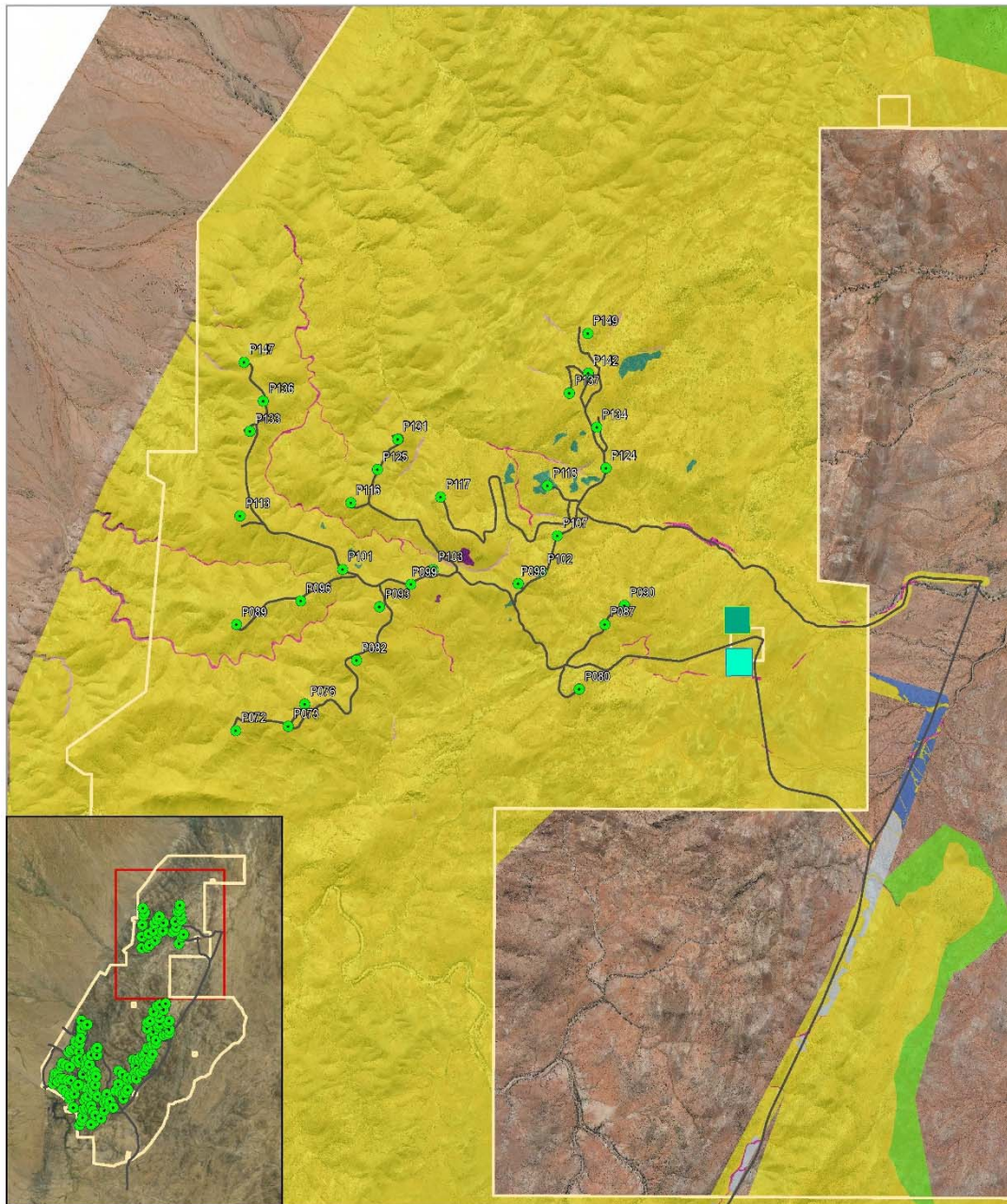
Applicable Meteorological Conditions – Wind Turbines

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

Applicable Meteorological Conditions – Other Facilities

2. The noise criteria in Condition 12 are to apply under all meteorological conditions except the following:
 - a) wind speeds greater than 3 m/s at 10 m above ground level; or
 - b) temperature inversion conditions between 1.5 °C and 3°C/100m and wind speeds greater than 2 m/s at 10 m above ground level; or
 - c) temperature inversion conditions greater than 3°C/100m.

APPENDIX 5 BIODIVERSITY

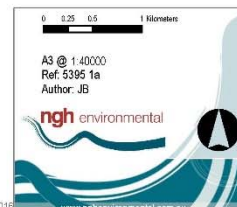


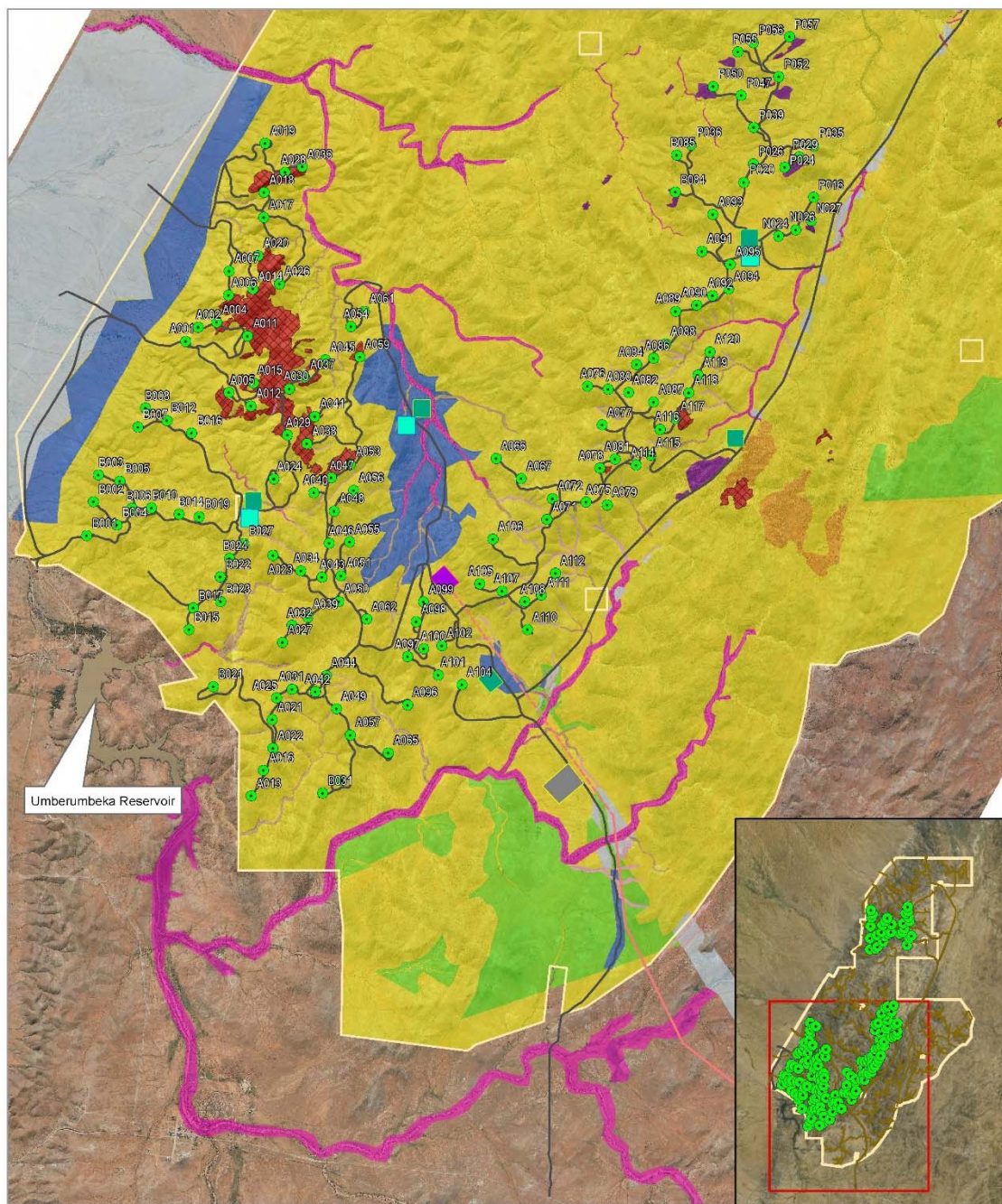
VEGETATION TYPES - NORTH

Silverton Wind Farm Mod 3

- Wind Farm Site
 - Indicative turbine locations for Mod 3
 - Indicative access tracks
 - Indicative location of project infrastructure
 - Substation
 - Batch Plant
- Vegetation types**
- Black Bluebush Shrubland (ID153)
 - Black Oak Woodland
 - Bluebush Shrubland (ID155)
 - Chenopod
 - Mulga - Dead finish (ID123)
 - Mulga/Red Mallee Shrubland (VEG1)
 - Prickly wattle Shrubland (ID136)
 - River Red Gum woodland (ID41)

Notes:
- Data collected by NGH Environmental (2012)
- Client data courtesy of Client, received 2013 and 2018



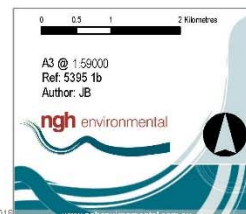


VEGETATION TYPES - SOUTH

Silverton Wind Farm Mod 3

- Wind Farm Site
- Indicative turbine locations for Mod 3
- Indicative access tracks
- Indicative transmission line
- Indicative location of project infrastructure
- Substation
- Switch Yard
- Construction Compound
- Batch Plant
- CEEC NSW TSC
- Vegetation types
- Black Bluebush Shrubland (ID153)
- Black Oak Woodland
- Bluebush Shrubland (ID155)
- Chenopod
- Chenopod - Red Mallee Woodland/Shrubland (VEG2)
- Mulga - Dead finish (ID123)
- Mulga/Red Mallee Shrubland (VEG1)
- Porcupine Grass sparse woodland (ID359)
- Prickly wattle Shrubland (ID136)
- River Red Gum on rocky creeks
- River Red Gum woodland (ID41)

Notes:
 - Data collected by NGH Environmental (2012)
 - Client data courtesy of Client, received 2013 and 2015





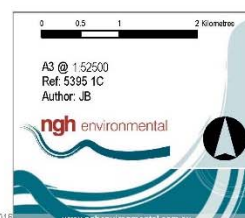
VEGETATION TYPES - TRANSMISSION LINE

Silverton Wind Farm Mod 3

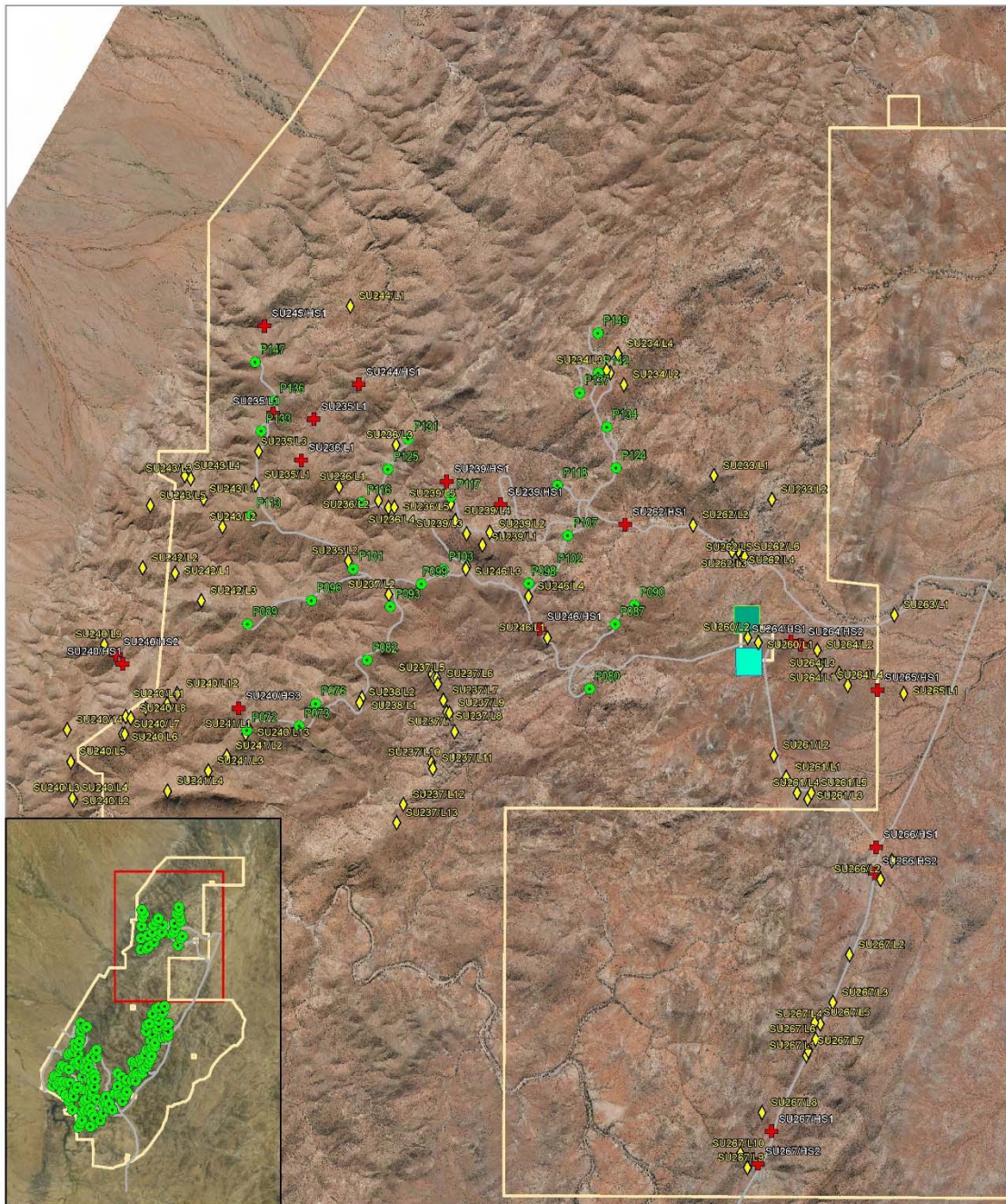
- | | |
|--|--|
| <ul style="list-style-type: none"> — Wind Farm Site — Indicative access tracks — Indicative transmission line | Vegetation types <ul style="list-style-type: none"> — Black Bluebush Low Open Shrubland — Exotic Dominated — Low Bluebush Bladder Saltbush Open Shrubland — Mulga Dead Finish — Pearl Bluebush Low Open Shrubland — Prickly Wattle Open Shrubland — River Red Gum Open Woodland |
|--|--|

Notes:

- Data collected by NGH Environmental (2012)
- Client data courtesy of Client, received 2013 and 2015



APPENDIX 6 HERITAGE SITES



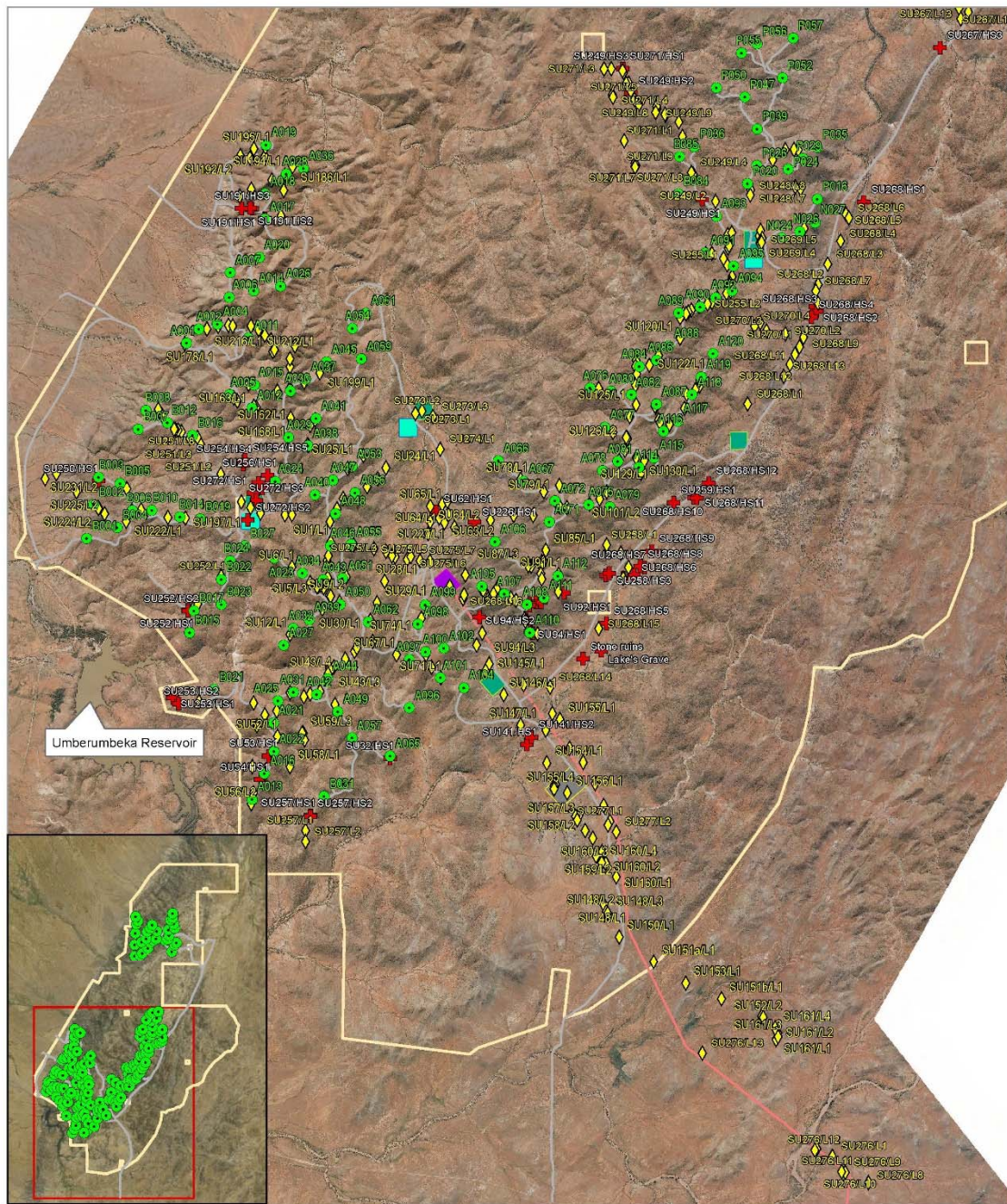
HERITAGE FEATURES - NORTH

Silvertown Wind Farm Mod 3

- Wind Farm Site
- Indicative turbine locations for Mod 3
- Indicative access tracks
- Indicative location of project infrastructure
- Substation
- Batch Plant
- ◆ Indigenous sites
- + Non-indigenous sites

Notes:
 - Data collected by NGH Environmental (2012)
 - Client data courtesy of Client, received 2013 and 2014



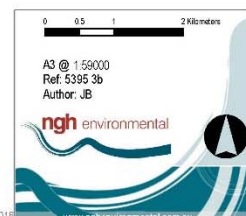


HERITAGE FEATURES - SOUTH

Silvertown Wind Farm Mod 3

- ◆ Wind Farm Site
- Indicative turbine locations for Mod 3
- Indicative access tracks
- Indicative transmission line
- Indicative location of project infrastructure
- Substation
- Switch Yard
- Construction Compound
- Batch Plant
- ◆ Indigenous sites
- + Non-indigenous sites

Notes:
 - Data collected by NGH Environmental (2012)
 - Client data courtesy of Client, received 2013 and 2015





HERITAGE FEATURES - TRANSMISSION LINE

Silverton Wind Farm Mod 3

- Wind Farm Site
- Indicative turbine locations for Mod 3
- Indicative access tracks
- ◆ Indigenous sites
- + Non-indigenous sites

Notes:

- Data collected by NGH Environmental (2012)
- Client data courtesy of Client, received 2013 and 2015



European Heritage Items

Survey unit	
SU32	HS1
SU53	HS1
SU54	HS1
SU62	HS1
SU90	HS1, HS2, HS3, HS4
SU92	HS1
SU93	HS1
SU94	HS1, HS2
SU141	HS1, HS2
SU143	HS1
SU190	HS1
SU191	HS1, HS2, HS3
SU226	HS1
SU235	L1
SU236	L1
SU239	HS1
SU240	HS1, HS2, HS3
SU244	HS1
SU245	HS1
SU246	HS1
SU249	HS1, HS2, HS3
SU250	HS1
SU252	HS1, HS2
SU253	HS1, HS2
SU254	HS1, HS2, HS3, HS4, HS5
SU256	HS1
SU257	HS1, HS2
SU258	HS1, HS2, HS3
SU259	HS1
SU262	HS1
SU264	HS1, HS2
SU265	HS1
SU266	HS1, HS2
SU267	HS1, HS2, HS3
SU268	HS1, HS2, HS3, HS4, HS5, HS6, HS7, HS8, HS9, HS10, HS11, HS12
SU271	HS1
SU272	HS1, HS2, HS3
Lake's Grave	
Stone ruins	

European heritage items - Transmission line

Survey unit	
SU276	HS1, HS2, HS3, HS4
SU278	HS1, HS2, HS3
Zinc Sintering works	
Silverton Tramway	

Indigenous Heritage Items

Survey Unit	
SU1	L1
SU2	L1, L2, L3
SU3	L1
SU4	L1, L2
SU5	L1, L2, L3
SU6	L1
SU9	L1, L2
SU10	L1
SU12	L1
SU13	L1
SU15	L1
SU16	L1
SU18	L1
SU19	L1
SU20	L1
SU22	L1
SU23	L1
SU24	L1
SU25	L1
SU26	L1
SU28	L1
SU29	L1
SU30	L1
SU31	L1
SU38	L1
SU41	L1, L2
SU42	L1
SU43	L1, L2, L3, L4
SU44	L1
SU45	L1
SU46	L1
SU47	L1
SU48	L1
SU49	L1
SU50	L1
SU51	L1
SU52	L1
SU53	L1
SU54	L1
SU55	L1
SU56	L1, L2
SU58	L1
SU59	L1, L2, L3

SU60	L1
SU61	L1
SU62	L1
SU63	L1, L2
SU64	L1, L2
SU65	L1
SU67	L1
SU69	L1
SU70	L1
SU71	L1
SU74	L1
SU75	L1
SU76	L1, L2
SU77	L1
SU78	L1
SU79	L1
SU81	L1
SU82	L1
SU85	L1
SU86	L1, L2, L3
SU87	L1, L2, L3
SU88	L1
SU89	L1
SU90	L1
SU91	L1
SU92	L1
SU93	L1
SU94	L1, L2, L3
SU95	L1, L2
SU96	L1
SU97	L1, L2, L3
SU98	L1, L2
SU99	L1
SU100	L1
SU101	L1, L2, L3
SU102	L1, L2
SU103	L1
SU104	L1, L2, L3, L4, L5
SU105	L1
SU106	L1, L2
SU107	L1
SU108	L1
SU109	L1
SU110	L1
SU111	L1, L2, L3, L4
SU112	L1, L2

SU113	L1, L2, L3
SU114	L1
SU115	L1, L2
SU116	L1
SU117	L1
SU118	L1
SU119	L1, L2, L3, L4
SU120	L1
SU121	L1
SU122	L1
SU123	L1, L2
SU124	L1
SU125	L1
SU126	L1, L2
SU127	L1
SU128	L1
SU129	L1, L2
SU130	L1
SU132	L1
SU133	L1, L2
SU136	L1
SU137	L1
SU138	L1
SU139	L1
SU140	L1
SU141	L1
SU142	L1
SU143	L1
SU144	L1, L2
SU145	L1, L2
SU146	L1
SU147	L1
SU148	L1, L2, L3
SU150	L1
SU154	L1
SU155	L1, L2, L3, L4
SU156	L1
SU157	L1, L2, L3
SU158	L1, L
SU159	L1, L2
SU160	L1, L2, L3, L4
SU162	L1, L2
SU163	L1, L
SU165	L1
SU167	L1
SU168	L1

SU173	L1, L2
SU174	L1
SU175	L1
SU177	L1
SU178	L1
SU182	L1
SU183	L1
SU184	L1
SU185	L1
SU186	L1
SU187	L1
SU189	L1
SU190	L1
SU192	L1, L
SU193	L1
SU194	L1
SU195	L1
SU197	L1
SU198	L1
SU199	L1
SU200	L1
SU201	L1
SU202	L1
SU203	L1
SU205	L1
SU209	L1, L2
SU210	L1
SU211	L1
SU212	L1
SU213	L1
SU215	L1, L2, L3
SU216	L1
SU218	L1
SU219	L1
SU220	L1
SU221	L1
SU222	L1
SU223	L1
SU224	L1, L2
SU225	L1, L2
SU226	L1
SU227	L1
SU229	L1, L2
SU230	L1
SU231	L1, L2
SU233	L1, L2

SU234	L1, L2, L3, L4
SU235	L1, L2, L3
SU236	L1, L2, L3, L4, L5
SU237	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13
SU238	L1, L2
SU239	L1, L2, L3, L4, L5
SU240	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14
SU241	L1, L2, L3, L4
SU242	L1, L2, L3, L4
SU243	L1, L2, L3, L4, L5
SU244	L1
SU246	L1, L2, L3, L4
SU247	L1
SU248	L1, L2, L3, L4, L5, L6, L7, L8
SU249	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18
SU250	L1
SU251	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10
SU252	L1, L2, L3
SU253	L1
SU255	L1, L2, L3
SU257	L1, L2
SU258	L1, L2, L3, L4
SU260	L1, L2
SU261	L1, L2, L3, L4, L5
SU262	L1, L2, L3, L4, L5, L6
SU263	L1
SU264	L1, L2, L3, L4
SU265	L1
SU266	L1, L2
SU267	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13
SU268	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16
SU269	L1, L2, L3, L4, L5
SU270	L1, L2, L3, L4
SU271	L1, L2, L3, L4, L5, L6, L7, L8, L9
SU272	L1, L2
SU273	L1, L2, L3
SU274	L1
SU275	L1, L2, L3, L4, L5, L6, L7
SU277	L1, L2

Indigenous heritage - Transmission line

Survey unit	
SU151a	L1
SU151b	L1
SU152	L1, L2
SU153	L1
SU161	L1, L2, L3, L4
SU276	L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11, L12, L13
SU278	L1, L2, L3, L4, L5, L6, L7, L8, L9

APPENDIX 7 HEAVY AND OVER-DIMENSIONAL VEHICLE ROUTES

aurecon

