



Planning & Environment

Planning Services Resource Assessments

Contact: Rose-Anne Hawkeswood
Phone: 9228 6324
Email: rose-anne.hawkeswood@planning.nsw.gov.au

Ms Jane Ross
Infinergy Pacific Ltd
44 Quayle Street
SANDY BAY, TAS, 7005

Dear Ms Ross

Metz Solar Farm (SSD 7931) Environmental Assessment Requirements

I have attached the Environmental Assessment Requirements for the preparation of an Environmental Impact Statement (EIS) for the Metz Solar Farm.

The requirements are based on the information you have provided to date, and have been prepared in consultation with the relevant Government agencies.

Please note that the Department may alter these requirements at any time, and that you must consult further with the Department if you do not lodge a development application and EIS for the project within the next two years.

If your proposal contains any actions that could have a significant impact on matters of National Environmental Significance, then it will also require approval under the Commonwealth's *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act).

This approval is in addition to any approvals required under NSW legislation. If you have any questions about the application of the EPBC Act to your proposal, you should contact the Department of the Environment in Canberra (6274 1111 or www.environment.gov.au).

Please contact the Department at least two weeks before you plan to submit the development application and EIS for the project. This will enable the Department to:

- confirm the applicable fee (see Division 1AA, Part 15 of the *Environmental Planning and Assessment Regulation 2000*); and
- determine the required number of copies of the EIS.

It is important for you to recognise that the Department will review the EIS for the project before putting it on public exhibition. If it fails to adequately address these requirements, you will be required to submit an amended EIS.

Yours sincerely

28/9/16

Clay Preshaw
A/Director
Resource Assessments
as nominee of the Secretary

Environmental Assessment Requirements

State Significant Development

Section 78A(8A) of the *Environmental Planning and Assessment Act 1979*

Application Number	SSD 7931
Proposal	Metz Solar Farm which includes: - the construction, operation and decommissioning of a solar photovoltaic (PV) plant up to 300 MW; and - associated infrastructure, including a grid connection.
Location	Bayley Park Metz, Armidale
Applicant	Infinergy Pacific Ltd
Date of Issue	28 September 2016
General Requirements	The Environmental Impact Statement (EIS) for the development must comply with the requirements in Schedule 2 of the <i>Environmental Planning and Assessment Regulation 2000</i> (EP&A Reg). In particular, the EIS must include: - a full description of the development, including: - details of construction, operation, upgrading and decommissioning; - a site plan showing all infrastructure and facilities (including site access location, site access routes, site compounds, laydown areas, substation, carpark and any other ancillary infrastructure that would be required for the development); - a strategic justification of the development focusing on site selection and the suitability of the proposed site, including the permissibility of the proposal and the capacity of the existing electricity transmission network with consideration for other potential electricity generation projects; - an assessment of the likely impacts of the development on the environment, focusing on the specific issues identified below, including: - a description of the existing environment likely to be affected by the development; - an assessment of the likely impacts of all stages of the development (which is commensurate with the level of impact), taking into consideration any relevant legislation, environmental planning instruments, guidelines, policies, plans and industry codes of practice; - consideration of the cumulative impacts of other developments (where relevant); - a description of the measures that would be implemented to avoid, mitigate and/or offset the impacts of the development (including draft management plans for specific issues as identified below); - a description of the measures that would be implemented to monitor and report on the environmental performance of the development; - a consolidated summary of all the proposed environmental management and monitoring measures, identifying all the commitments in the EIS; and - the reasons why the development should be approved having regard to the biophysical, economic and social costs and benefits of the development. While not exhaustive, Attachment 1 contains a list of some of the environmental planning instruments, guidelines, policies, and plans that may be relevant to the environmental assessment of this development. In addition to the matters set out in Schedule 1 of the EP&A Reg, the development application must be accompanied by: - a signed report from a suitably qualified person that includes an accurate estimate of the capital investment value of the development (as defined in clause 3 of the <i>Environmental Planning and Assessment Regulation 2000</i>); and

	the consent in writing of the owner of the land (as required in clause 49(1)(b) of the <i>Environmental Planning and Assessment Regulation 2000</i>).
Specific Issues	The EIS must address the following specific issues: Constraints – including a detailed map identifying the key environmental and other land use constraints that have informed the final design of the development, including but not limited to existing electricity transmission lines, the project site boundary, proposed infrastructure, site access, vegetation types, residences within 2 km of the project site, existing waterbodies, proposed perimeter planting, Crown public roads and all identified Aboriginal heritage items. Land – including: - a baseline assessment of the soil and land capability prior to development; - an assessment of the impact of the development on agricultural land, flood prone land and mineral resources and exploration activities in proximity to the project site, having regard to the requirements of the Department of Industry requirements (attachment 2); and - consideration of the compatibility of the development with the existing agricultural land uses on and adjacent to the site both during operation and after decommissioning, particularly in relation to the zoning provisions applying to the land. Biodiversity – including an assessment of the likely biodiversity impacts of the development, particularly in regard to all native vegetation present including Endangered Ecological Communities (EECs) and isolated trees, and any steps taken to avoid, mitigate or offset any identified impacts, having regard to the <i>NSW Biodiversity Offsets Policy for Major Projects</i>, and in accordance with the <i>Framework for Biodiversity Assessment</i>, unless otherwise agreed by the Department. Heritage – including an assessment of the likely Aboriginal and historic heritage (cultural and archaeological) impacts of the development, including adequate consultation with the local Aboriginal community. Transport – including an assessment of the site access route, the site access point off Waterfall Way, the likely traffic volumes and transport impacts of the development on the capacity, condition, safety and efficiency of any local and State road networks including Waterfall Way and Bayley Park Road, having regard to the requirements of Roads and Maritime Services (attachment 2), and a description of: - the measures that would be implemented to mitigate any impacts during construction, upgrading or decommissioning; and - any proposed road or intersection upgrades developed in consultation with the relevant road authorities (if required). Visual – including an assessment of the likely visual impacts of the development (including any glare, reflectivity and night lighting) on surrounding residences, scenic or significant vistas, air traffic and road corridors in the public domain, including a draft landscaping plan for on-site perimeter planting, with evidence to demonstrate it has been developed in consultation with affected landowners. Water – including an assessment of the likely impacts of the construction, operation and decommissioning of the development on: - the quality and quantity of groundwater and surface water resources (including any nearby watercourses), adjacent water users, riparian land, and aquatic and groundwater dependent ecosystems, and measures that would be implemented to mitigate any impacts; - annual volumes of surface water and groundwater required, details of water supply arrangements, and a description of the erosion and sediment control measures that would be implemented to mitigate any impacts in accordance with <i>Managing Urban Stormwater: Soils & Construction</i> (Landcom 2004); and - details on proposed creek crossing locations and designs (if required). Noise – including an assessment of the construction, upgrading and decommissioning noise impacts of the development in accordance with the <i>Interim Construction Noise Guideline</i> (ICNG) and sub-station noise impacts

	in accordance with the <i>NSW Industrial Noise Policy</i> (INP), and a description of the measures that would be implemented to mitigate any impacts if the assessment shows construction, upgrading or decommissioning noise is likely to exceed applicable criteria. • Hazards – consideration of any relevant hazards including electrical fire and impacts from electromagnetic interference.
Consultation	In preparing the EIS for the development, you should consult with relevant local, State or Commonwealth Government authorities, infrastructure and service providers, community groups and affected landowners. In particular, you must undertake detailed consultation with affected landowners surrounding the development, and Armidale Regional Council. The EIS must describe the consultation that was carried out, identify the issues raised during this consultation, and explain how these issues have been addressed in the EIS.

ATTACHMENT 1

Environmental Planning Instruments, Policies, Guidelines & Plans

Biodiversity

Framework for Biodiversity Assessment (OEH)
 NSW Biodiversity Offsets Policy for Major Projects (OEH)
 Threatened Species Assessment Guidelines - Assessment of Significance (OEH)

Electromagnetic interference

Guidelines for limiting exposure to Time-varying Electric, Magnetic and Electromagnetic Fields (ICNIRP)

Heritage

Aboriginal Cultural Heritage Consultation Requirements for Proponents (OEH)
 Code of Practice for Archaeological Investigations of Objects in NSW (OEH)
 Guide to investigating, assessing and reporting on aboriginal cultural heritage in NSW (OEH).
 NSW Heritage Manual (OEH)

Land

Primefact 1063: Infrastructure proposals on rural land (DPI)
 Establishing the social licence to operate large scale solar facilities in Australia: insights from social research for industry (ARENA)

Noise

NSW Industrial Noise Policy (EPA)
 Interim Construction Noise Guideline (EPA)
 NSW Road Noise Policy (EPA)

Transport

Guide to Traffic Generating Development (RTA)
 Road Design Guide (RMS) & relevant Austroads Standards

Water

Managing Urban Stormwater: Soils & Construction (Landcom)
 Floodplain Development Manual (OEH)
 Guidelines for Controlled Activities on Waterfront Land (DPI Water)
 Water Sharing Plans (DPI Water)
 Floodplain Management Plans (DPI Water)
 NSW Aquifer Interference Policy 2012 (DPI Water)
 Harvestable Rights Orders (NSW Government Gazette 40 dated 31 March 2006 pp 1628 – 1631)
 Policy and Guidelines for Fish Friendly Waterway Crossings (2004)
 Why Do Fish Need to Cross the Road? Fish passage requirements for waterway crossings (2003)

Waste

Waste Classification Guidelines (EPA)

Environmental Planning Instruments

State Environmental Planning Policy (State and Regional Development) 2011
 State Environmental Planning Policy (Infrastructure) 2007
 State Environmental Planning Policy (Rural Lands) 2008
 State Environmental Planning Policy No. 44 – Koala Habitat Protection
 State Environmental Planning Policy No. 55 – Remediation of Land
 Armidale Dumaresq Local Environmental Plan 2012

ATTACHMENT 2

AGENCIES' CORRESPONDENCE

Ms Rose-Anne Hawkeswood
Planner
Resource Assessments & Planning Services
Department of Planning & Environment
GPO Box 39 SYDNEY NSW 2001

Rose-Anne.Hawkeswood@planning.nsw.gov.au

Dear Rose-Anne

Request for Secretary's Environmental Assessment Requirements (SEARs) for the Metz Solar Farm (SSD 7931)

I refer to your email dated 14 September 2016 inviting the Division of Resources & Energy (the Division) to provide comments on the Metz Solar Farm request for SEARS. The Division provides the following comments:

The Metz Solar Farm (SSD 7931) is located in the Armidale Regional LGA. Ecological Australia Pty Ltd has prepared a Preliminary Environmental Assessment (PEA) on behalf of Infinergy Pacific Ltd ('the Applicant') in support of the application. The project area is covered by Exploration Licence (ELs) Nos 6419, 5973, 5997 held by Hillgrove Mines Ltd.

The Hillgrove deposit contains state significant Gold (Au), Antimony (Sb) and Tungsten (W) resources. Hillgrove has historically been mined since the 1870s and is the largest antimony resource outside China containing (proved & probable) reserves of 2.195 Mt @ 3.8 g/t Au, 2.1% Sb and global resources of 6.25 Mt @ g/t Au, 360 g/t W and 1.6% Sb.

An assessment of the mineral and extractive resources must be conducted by a suitably qualified geologist and include an assessment of the prospectivity of the land in regard to mineral and extractive resources. The assessment must:

- include consultation with the Division
- identify any Mining Leases (MLs) and Exploration Licenses (ELs) affecting the project site. If the project site is affected by a lease or license, the applicant must consult with the relevant lease/licence holder.
- Include a record of consultation, including the outcomes, with the EA
- identify any known mineral resources within or in the vicinity of the site
- identify any areas with high potential for the discovery of mineral resources within or in the vicinity of the site
- demonstrate how the project (including potential biodiversity offsets associated with the proposal) will avoid or minimise impacts on mineral resources, mining titles and exploration licence activities for the life of the project
- include a signed statement by the geologist stating their considered opinion regarding the prospectivity of the land.

The above requirements are consistent with Part 3 (13) of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007* (Mining SEPP) which requires a test

to be carried out by the relevant consent authority regarding the compatibility of a proposed development with potential mining, petroleum production or extractive industry activities.

To further assist the Applicant, the Division has a range of online data relating to mineral exploration, land use and general geoscience topics:

<http://www.resources.nsw.gov.au/geological/online-services>

The location of current exploration and mining titles in NSW, explanations of mining and production titles and the roles of community and government in the decision making process for mining/resource projects may be accessed by the general public using the following online utilities:

<http://www.commonground.nsw.gov.au/#/>

To assist the Applicant with their assessment and consultation the details of the title and licence holders that the Division has on record are as follows:

Name: Philip Shields

Position: Geology Manager

Address: 130 Bracken Street Hillgrove NSW 2350

Phone: 02 6776 3104

Mobile: 0427 425 656

Email: pshields@hillgrovemines.com.au

Should you have any enquires regarding this matter please contact Steve Cozens, Senior Project Officer, Royalty & Advisory Services on 9842 8573.

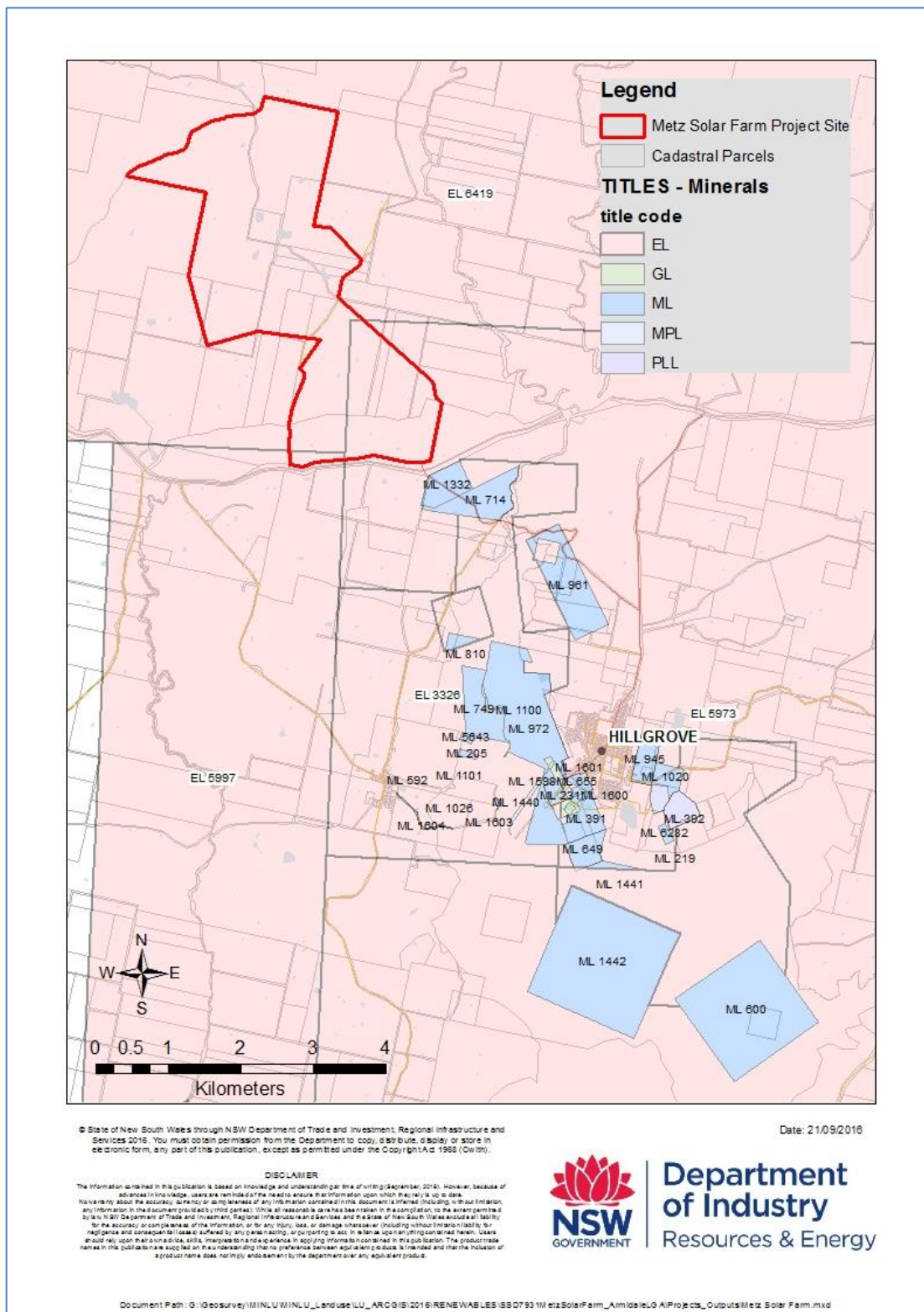
Yours sincerely



Zane West

Manager Royalties & Advisory Services

ATTACHMENT A:





File No: NTH16/00100/01
Your Ref: SSD_7931

The Director
Resource Assessments
Department of Planning & Environment
GPO Box 39
SYDNEY NSW 2001

Attention: Rose-Anne Hawkeswood - Planner

Dear Sir / Madam,

Secretary's Environmental Assessment Requirements (SSD_7931) Metz Solar Farm, Armidale LGA

I refer to your email of 14 September 2016 requesting input to the Secretary's Environmental Assessment Requirements (EARs) for the abovementioned state significant development.

Roles and Responsibilities

The key interests for Roads and Maritime Services are the safety and efficiency of the road network, traffic management, the integrity of infrastructure assets and the integration of land use and transport.

The Waterfall Way is a classified (state) road. Armidale Dumaresq Council is the Roads Authority for all public roads in the local government area under Section 7 of the *Roads Act 1993*. Roads and Maritime is the Roads Authority for freeways and has responsibilities for classified roads in accordance with the Act.

Roads and Maritime Response

Roads and Maritime requests that the Environmental Assessment be supported by a Traffic Impact Assessment (TIA) prepared by a suitably qualified person in accordance with the Austroads Guide to Traffic Management Part 12, the complementary Roads and Maritime Supplement and RTA Guide to Traffic Generating Developments. The TIA is to address the following;

- The total impact of existing and proposed development on the road network with consideration for a 10 year horizon.
- The volume and distribution of construction and operational traffic generated by the proposed development.
- Intersection sight distances at key intersection/s providing access to the site.
- Existing and proposed site access standards.
- Details of proposed improvements to affected intersections.
- Details of servicing and parking arrangements.
- Impact on public transport (public and school bus routes) and consideration for alternative transport modes such as walking and cycling.
- Impacts of road traffic noise and dust generated along the primary access route/s.

Roads and Maritime Services

- Consideration for a Driver Code of Conduct, which could include, but not be limited to;
 - a. A map of the primary access route/s highlighting critical locations.
 - b. Safety initiatives for transport through residential areas and/or school zones.
 - c. An induction process for vehicle operators & regular toolbox meetings.
 - d. A complaint resolution and disciplinary procedure.
 - e. Any community consultation measures for the peak construction period.

Where road safety concerns are identified at a specific location along the identified access route/s, Roads and Maritime suggests that the TIA could be supported by a targeted Road Safety Audit undertaken by suitably qualified persons.

The current Austroads Guidelines, Australian Standards and Roads and Maritime Supplements are to be adopted for any proposed works on the classified road network.

The Developer would be required to enter into a 'Works Authorisation Deed' (WAD) with Roads and Maritime for any works deemed necessary on the classified (state) road network. The developer would be responsible for all costs associated with the works and administration for the WAD. The Developer should be aware that the requirements of the WAD process can take considerable time and sufficient lead time should be included in the project schedule to obtain all necessary approvals prior to the commencement of works on the classified road. Further information on undertaking private developments adjacent to classified roads can be accessed at: <http://www.rms.nsw.gov.au/projects/planning-principles/index.html>

Advice to the Consent Authority

Roads and Maritime highlights the Consent Authority is responsible for considering the environmental impacts of any road works which are ancillary to the development. This includes any works which form part of the proposal and/or any works deemed necessary to include as requirements in the conditions of development consent.

If you have any further enquiries regarding the above comments please contact Liz Smith, Manager Land Use Assessment on (02) 6640 1362 or via email at: development.northern@rms.nsw.gov.au

Yours faithfully



28 September 2016

for Monica Sirol
Network & Safety Manager, Northern Region



Office of
Environment
& Heritage

Our Ref: DOC16/469112

Your Ref: SSD7931

Ms Rose-Anne Hawkeswood
Planner – Resource Assessments
Department of Planning and Environment
GPO Box 39
Sydney NSW 2001

Dear Ms Hawkeswood

Re: Request for OEH Environmental Assessment Requirements – Metz Solar Farm (SSD 7931), within Armidale Regional Local Government Area

Thank you for your email of 14 September 2016 inviting input from the Office of Environment and Heritage (OEH) for the preparation of Secretary's Environmental Assessment Requirements (SEARs) for the Metz Solar Farm proposal. I appreciate the opportunity to provide advice.

The OEH notes that the proposal will be assessed as State Significant Development in accordance with Part 4 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The Environmental Impact Statement (EIS) SEARs provided by us are limited to Aboriginal cultural heritage, biodiversity, OEH estate, historic heritage, acid sulphate soils, flooding, stormwater and coastal erosion.

The proponent should ensure that the EIS will be sufficiently comprehensive to enable unambiguous determination of the extent of the direct and indirect impact(s) of the proposal. OEH considers that this information is necessary to assess an EIS for the proposal.

The full lists of OEH's standard requirements that may need to be addressed in the EIS are provided in **Attachment A**. In preparing the EIS, the proponent should refer to the relevant guidance material listed in **Attachment B**.

If you have any further questions about this issue, Mr Krister Waern, Senior Operations Officer, Regional Operations, OEH, can be contacted on 6640 2503 or at krister.waern@environment.nsw.gov.au.

Yours sincerely

 23 September 2016

DIMITRI YOUNG
Senior Team Leader Planning, North East Region
Regional Operations

Attachment A – OEH Standard Environmental Assessment Requirements (SSD7931)

Biodiversity 1. Biodiversity impacts related to the proposed project can be assessed and documented in accordance with the Framework for Biodiversity Assessment, unless otherwise agreed by OEH, by a person accredited in accordance with s142B(1)(c) of the <i>Threatened Species Conservation Act 1995</i>.
Aboriginal cultural heritage 2. The EIS must identify and describe the Aboriginal cultural heritage values that exist across the whole area that will be affected by the project and document these in the EIS. This may include the need for surface survey and test excavation. The identification of cultural heritage values should be guided by the Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (DECCW, 2011) and consultation with OEH regional officers. 3. Where Aboriginal cultural heritage values are identified, consultation with Aboriginal people must be undertaken and documented in accordance with the Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW). The significance of cultural heritage values for Aboriginal people who have a cultural association with the land must be documented in the EIS. 4. Impacts on Aboriginal cultural heritage values are to be assessed and documented in the EIS. The EIS must demonstrate attempts to avoid impact upon cultural heritage values and identify any conservation outcomes. Where impacts are unavoidable, the EIS must outline measures proposed to mitigate impacts. Any objects recorded as part of the assessment must be documented and notified to OEH.
Historic heritage 5. The EIS must provide a heritage assessment including but not limited to an assessment of impacts to <i>State and local heritage</i> including conservation areas, natural heritage areas, places of Aboriginal heritage value, buildings, works, relics, gardens, landscapes, views, trees should be assessed. Where impacts to State or locally significant heritage items are identified, the assessment shall: a. outline the proposed mitigation and management measures (including measures to avoid significant impacts and an evaluation of the effectiveness of the mitigation measures) generally consistent with the NSW Heritage Manual (1996), b. be undertaken by a suitably qualified heritage consultant(s) (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria), c. include a statement of heritage impact for all heritage items (including significance assessment), d. consider impacts including, but not limited to, vibration, demolition, archaeological disturbance, altered historical arrangements and access, landscape and vistas, and architectural noise treatment (as relevant), and e. where potential archaeological impacts have been identified develop an appropriate archaeological assessment methodology, including research design, to guide physical archaeological test excavations (terrestrial and maritime as relevant) and include the results of these test excavations.

Water and soils

6. The EIS must map the following features relevant to water and soils including:
 - a. Acid sulfate soils (Class 1, 2, 3 or 4 on the Acid Sulfate Soil Planning Map).
 - b. Rivers, streams, wetlands, estuaries (as described in Appendix 2 of the [Framework for Biodiversity Assessment](#)).
 - c. Groundwater.
 - d. Groundwater dependent ecosystems.
 - e. Proposed intake and discharge locations.
7. The EIS must describe background conditions for any water resource likely to be affected by the project, including:
 - a. Existing surface and groundwater.
 - b. Hydrology, including volume, frequency and quality of discharges at proposed intake and discharge locations.
 - c. Water Quality Objectives (as endorsed by the NSW Government <http://www.environment.nsw.gov.au/ieo/index.htm>) including groundwater as appropriate that represent the community's uses and values for the receiving waters.
 - d. Indicators and trigger values/criteria for the environmental values identified at (c) in accordance with the [ANZECC \(2000\) Guidelines for Fresh and Marine Water Quality](#) and/or local objectives, criteria or targets endorsed by the NSW Government.
8. The EIS must assess the impacts of the project on water quality, including:
 - a. The nature and degree of impact on receiving waters for both surface and groundwater, demonstrating how the project protects the Water Quality Objectives where they are currently being achieved, and contributes towards achievement of the Water Quality Objectives over time where they are currently not being achieved. This should include an assessment of the mitigating effects of proposed stormwater and wastewater management during and after construction.
 - b. Identification of proposed monitoring of water quality.
9. The EIS must assess the impact of the project on hydrology, including:
 - a. Water balance including quantity, quality and source.
 - b. Effects to downstream rivers, wetlands, estuaries, marine waters and floodplain areas.
 - c. Effects to downstream water-dependent fauna and flora including groundwater dependent ecosystems.
 - d. Impacts to natural processes and functions within rivers, wetlands, estuaries and floodplains that affect river system and landscape health such as nutrient flow, aquatic connectivity and access to habitat for spawning and refuge (e.g. river benches).
 - e. Changes to environmental water availability, both regulated/licensed and unregulated/rules-based sources of such water.
 - f. Mitigating effects of proposed stormwater and wastewater management during and after construction on hydrological attributes such as volumes, flow rates, management methods and re-use options.
 - g. Identification of proposed monitoring of hydrological attributes.

Flooding and coastal erosion
10. The EIS must map the following features relevant to flooding as described in the Floodplain Development Manual 2005 (NSW Government 2005) including: a. Flood prone land b. Flood planning area, the area below the flood planning level. c. Hydraulic categorisation (floodways and flood storage areas).
11. The EIS must describe flood assessment and modelling undertaken in determining the design flood levels for events, including a minimum of the 1 in 10 year, 1 in 100 year flood levels and the probable maximum flood, or an equivalent extreme event.
12. The EIS must model the effect of the proposed project (including fill) on the flood behaviour under the following scenarios: a. Current flood behaviour for a range of design events as identified in 8) above. The 1 in 200 and 1 in 500 year flood events as proxies for assessing sensitivity to an increase in rainfall intensity of flood producing rainfall events due to climate change.
13. Modelling in the EIS must consider and document: a. The impact on existing flood behaviour for a full range of flood events including up to the probable maximum flood. b. Impacts of the development on flood behaviour resulting in detrimental changes in potential flood affection of other developments or land. This may include redirection of flow, flow velocities, flood levels, hazards and hydraulic categories. c. Relevant provisions of the NSW Floodplain Development Manual 2005.
14. The EIS must assess the impacts on the proposed project on flood behaviour, including: a. Whether there will be detrimental increases in the potential flood affectation of other properties, assets and infrastructure. b. Consistency with Council floodplain risk management plans. c. Compatibility with the flood hazard of the land. d. Compatibility with the hydraulic functions of flow conveyance in floodways and storage in flood storage areas of the land. e. Whether there will be adverse effect to beneficial inundation of the floodplain environment, on, adjacent to or downstream of the site. f. Whether there will be direct or indirect increase in erosion, siltation, destruction of riparian vegetation or a reduction in the stability of river banks or watercourses. g. Any impacts the development may have upon existing community emergency management arrangements for flooding. These matters are to be discussed with the SES and Council. h. Whether the proposal incorporates specific measures to manage risk to life from flood. These matters are to be discussed with the SES and Council. i. Emergency management, evacuation and access, and contingency measures for the development considering the full range of flood risk (based upon the probable maximum flood or an equivalent extreme flood event). These matters are to be discussed with and have the support of Council and the SES. j. Any impacts the development may have on the social and economic costs to the community as consequence of flooding.

Attachment B – Guidance material (SSD7931)

Title	Web address
<u>Relevant Legislation</u>	
<i>Coastal Protection Act 1979</i>	http://www.legislation.nsw.gov.au/maintop/view/inforce/act+13+1979+cd+0+N
<i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i>	http://www.austlii.edu.au/au/legis/cth/consol_act/epabca1999588/
<i>Environmental Planning and Assessment Act 1979</i>	http://www.legislation.nsw.gov.au/maintop/view/inforce/act+203+1979+cd+0+N
<i>Fisheries Management Act 1994</i>	http://www.legislation.nsw.gov.au/maintop/view/inforce/act+38+1994+cd+0+N
<i>Marine Parks Act 1997</i>	http://www.legislation.nsw.gov.au/maintop/view/inforce/act+64+1997+cd+0+N
<i>National Parks and Wildlife Act 1974</i>	http://www.legislation.nsw.gov.au/maintop/view/inforce/act+80+1974+cd+0+N
<i>Protection of the Environment Operations Act 1997</i>	http://www.legislation.nsw.gov.au/maintop/view/inforce/act+156+1997+cd+0+N
<i>Threatened Species Conservation Act 1995</i>	http://www.legislation.nsw.gov.au/maintop/view/inforce/act+101+1995+cd+0+N
<i>Water Management Act 2000</i>	http://www.legislation.nsw.gov.au/maintop/view/inforce/act+92+2000+cd+0+N
<i>Wilderness Act 1987</i>	http://www.legislation.nsw.gov.au/viewtop/inforce/act+196+1987+FIRST+0+N
<u>Biodiversity</u>	
NSW Biodiversity Offsets Policy for Major Projects (OEH, 2013)	http://www.environment.nsw.gov.au/resources/biodiversity/140672biopolicy.pdf
Framework for Biodiversity Assessment (OEH, 2013)	http://www.environment.nsw.gov.au/resources/biodiversity/140675fba.pdf
Fisheries NSW policies and guidelines	http://www.dpi.nsw.gov.au/fisheries/habitat/publications/policies,-guidelines-and-manuals/fish-habitat-conservation
List of national parks	http://www.environment.nsw.gov.au/NationalParks/parksearchatoz.aspx
Revocation, recategorisation and road adjustment policy (OEH, 2012)	http://www.environment.nsw.gov.au/policies/RevocationOfLandPolicy.htm
Guidelines for developments adjoining land and water managed by the Department of Environment, Climate Change and Water (DECCW, 2010)	http://www.environment.nsw.gov.au/resources/parks/policyRevocations.pdf
<u>Heritage</u>	
The Burra Charter (The Australia ICOMOS charter for places of cultural significance)	http://australia.icomos.org/wp-content/uploads/The-Burra-Charter-2013-Adopted-31.10.2013.pdf
Statements of Heritage Impact 2002 (HO & DUAP)	http://www.environment.nsw.gov.au/resources/heritagebranch/heritage/hmstatementsofhi.pdf

Title	Web address
NSW Heritage Manual (DUAP) (scroll through alphabetical list to 'N')	http://www.environment.nsw.gov.au/Heritage/publications/index.htm#M-O
Aboriginal Cultural Heritage	
Aboriginal Cultural Heritage Consultation Requirements for Proponents (DECCW, 2010)	http://www.environment.nsw.gov.au/resources/cultureheritage/comconsultation/09781ACHconsultreq.pdf
Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW, 2010)	http://www.environment.nsw.gov.au/resources/cultureheritage/10783FinalArchCoP.pdf
Guide to investigating, assessing and reporting on Aboriginal cultural heritage in NSW (OEH 2011)	http://www.environment.nsw.gov.au/resources/cultureheritage/20110263ACHguide.pdf
Aboriginal Site Recording Form	http://www.environment.nsw.gov.au/resources/parks/SiteCardMainV1_1.pdf
Aboriginal Site Impact Recording Form	http://www.environment.nsw.gov.au/resources/cultureheritage/120558asirf.pdf
Aboriginal Heritage Information Management System (AHIMS) Registrar	http://www.environment.nsw.gov.au/contact/AHIMSRegistrar.htm
Care Agreement Application form	http://www.environment.nsw.gov.au/resources/cultureheritage/20110914TransferObject.pdf
Water and Soils	
Acid sulphate soils	
Acid Sulfate Soils Planning Maps via 'The NSW Natural Resource Atlas'	www.nratlas.nsw.gov.au/
Acid Sulfate Soils Manual (Stone et al. 1998)	Manual available for purchase from: http://www.landcom.com.au/whats-new/the-blue-book.aspx Chapters 1 and 2 are on DPI's Guidelines Register at: Chapter 1 Acid Sulfate Soils Planning Guidelines: http://www.planning.nsw.gov.au/rdaguidelines/documents/NSW%20Acid%20Sulfate%20Soils%20Planning%20Guidelines.pdf Chapter 2 Acid Sulfate Soils Assessment Guidelines: http://www.planning.nsw.gov.au/rdaguidelines/documents/NSW%20Acid%20Sulfate%20Soils%20Assessment%20Guidelines.pdf
Acid Sulfate Soils Laboratory Methods Guidelines (Ahern et al. 2004)	http://www.advancedenvironmentalmanagement.com/Reports/Savannah/Appendix%2015.pdf This replaces Chapter 4 of the Acid Sulfate Soils Manual above.
Flooding and Coastal Erosion	
Reforms to coastal erosion management	http://www.environment.nsw.gov.au/coasts/coastalerosionmgmt.htm
Floodplain development manual	http://www.environment.nsw.gov.au/floodplains/manual.htm
Guidelines for Preparing Coastal Zone Management Plans	Guidelines for Preparing Coastal Zone Management Plans http://www.environment.nsw.gov.au/resources/coasts/130224CZMPGuide.pdf
NSW Climate Impact Profile	NSW Climate Impact Profile
Climate Change Impacts and Risk Management	Climate Change Impacts and Risk Management: A Guide for Business and Government, AGIC Guidelines for Climate Change Adaptation
Water	
Water Quality Objectives	http://www.environment.nsw.gov.au/ieo/index.htm

Title	Web address
ANZECC (2000) Guidelines for Fresh and Marine Water Quality	www.environment.gov.au/water/publications/quality/australian-and-new-zealand-guidelines-fresh-marine-water-quality-volume-1
Applying Goals for Ambient Water Quality Guidance for Operations Officers – Mixing Zones	http://deccnet/water/resources/AWQGuidance7.pdf
Approved Methods for the Sampling and Analysis of Water Pollutant in NSW (2004)	http://www.environment.nsw.gov.au/resources/legislation/approvedmethods-water.pdf