



Our Ref: DOC21/991293  
Your Ref: SSD 30956841

Director Resource Assessments  
Department of Planning, Industry and Environment  
Planning and Assessment Group  
Locked Bag 5022  
Paramatta NSW 2124

Attention: Ms Rose-Anne Hawkeswood

Dear Mr O'Donoghue

**Re: Request for Environmental Assessment Requirements – Crescent Head Ilmenite Stockpile Rehabilitation Project, Kempsey Local Government Area SSD-30956841**

Thank you for your e-mail of 9 November 2021 inviting input to the preparation of Secretary's Environmental Assessment Requirements (SEARs) for the Crescent Head Ilmenite Stockpile Rehabilitation project (SSD-30956841) from the Biodiversity and Conservation Division (BCD) of the Biodiversity, Conservation and Science Directorate in the Environment, Energy and Science Group of the Department of Planning, Industry and Environment. I appreciate the opportunity to provide advice.

We note the project will be assessed as State Significant Development/Infrastructure in accordance with Part 4 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The Secretary's Environmental Impact Statement (EIS) SEARs provided by the BCD are limited to biodiversity, National Parks and Wildlife Service estate, acid sulfate soils, flooding, and coastal processes and associated hazards.

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 project.


As the subject lands are included within the Goolawah Reserve Trust, a Crown reserve administered by the Minister for the Environment and gazetted on 16 April 2010, and the proposal adjoins the Goolawah National Park, we have included project-specific SEARs to require consultation with the NSW National Parks and Wildlife Service and assessment of the potential impacts of the proposal on the national park.

We consider that the above information is necessary to assess an EIS for the project.

The full list of our standard requirements that may need to be addressed in the EIS are provided in **Attachment A**. Our project-specific requirements that must be addressed in the EIS are provided in **Attachment B**. In preparing the EIS, the proponent should refer to the relevant guidance material listed in **Attachment C**.

If you have any questions about this advice, please do not hesitate to contact Mr Paul Houlder, Project Officer Data Support, at paul.houlder@environment.nsw.gov.au or on 6670 8679.

Yours sincerely



16 November 2021

**DIMITRI YOUNG**  
**Senior Team Leader Planning, North East Branch**  
**Biodiversity and Conservation**

Enclosures:

Attachment A - BCD Standard Environmental Assessment Requirements (SSD 30956841)

Attachment B - BCD Project-specific Environmental Assessment Requirements (SSD 30956841)

Attachment C – Guidance Material (SSD 30956841)

## Attachment A – Biodiversity and Conservation Division Standard Environmental Assessment Requirements (SSD 30956841)

<b>Biodiversity</b>
<p>1. The EIS must assess biodiversity impacts related to the project in accordance with <a href="#">Section 7.9 of the Biodiversity Conservation Act 2017</a> using the <a href="#">Biodiversity Assessment Method (BAM)</a> and must document this assessment in a <a href="#">Biodiversity Development Assessment Report (BDAR)</a>. The BDAR must include information in the form detailed in the <i>Biodiversity Conservation Act 2016</i> (s6.12), <i>Biodiversity Conservation Regulation 2017</i> (s6.8) and the BAM, unless the Biodiversity and Conservation Division and Planning and Assessment Group determine that the project is not likely to have any significant impacts on biodiversity values.</p>
<p>2. The BDAR must document the application of the avoid, minimise and offset framework including assessing all direct, indirect and prescribed impacts in accordance with the BAM.</p>
<p>3. The BDAR must include details of the measures proposed to address the offset obligation as follows:</p> <ul style="list-style-type: none"> <li>• The total number and classes of biodiversity credits required to be retired for the project;</li> <li>• The number and classes of like-for-like biodiversity credits proposed to be retired;</li> <li>• The number and classes of biodiversity credits proposed to be retired in accordance with the variation rules;</li> <li>• Any proposal to fund a <a href="#">biodiversity conservation action</a>;</li> <li>• Any proposal to conduct ecological rehabilitation (if a mining project);</li> <li>• Any proposal to make a payment to the Biodiversity Conservation Fund.</li> </ul> <p>If seeking approval to use the variation rules, the BDAR must contain details of the <a href="#">reasonable steps</a> that have been taken to obtain requisite like-for-like biodiversity credits.</p>
<p>4. The BDAR must be submitted with all spatial data associated with the survey and assessment as per Appendix 11 of the BAM.</p>
<p>5. The BDAR must be prepared by a person accredited in accordance with the Accreditation Scheme for the Application of the Biodiversity Assessment Method Order 2017 under s6.10 of the <i>Biodiversity Conservation Act 2016</i>.</p>
<b>Water and soils</b>
<p>6. The EIS must map the following features relevant to water and soils including:</p> <ol style="list-style-type: none"> <li>a. Acid sulfate soils (Class 1, 2, 3 or 4 on the Acid Sulfate Soil Planning Map).</li> <li>b. Rivers, streams, wetlands, estuaries (as described in s4.2 of the BAM).</li> <li>c. Wetlands as described in s4.2 of the BAM.</li> <li>d. Groundwater.</li> <li>e. Groundwater dependent ecosystems.</li> <li>f. Proposed intake and discharge locations.</li> </ol>
<p>7. The EIS must describe background conditions for any water resource likely to be affected by the project, including:</p> <ol style="list-style-type: none"> <li>a. Existing surface and groundwater.</li> <li>b. Hydrology, including volume, frequency and quality of discharges at proposed intake and discharge locations.</li> </ol>

<ul style="list-style-type: none"> <li>c. Water Quality Objectives (as endorsed by the NSW Government <a href="http://www.environment.nsw.gov.au/ieo/index.htm">http://www.environment.nsw.gov.au/ieo/index.htm</a>) including groundwater as appropriate that represent the community's uses and values for the receiving waters.</li> <li>d. Indicators and trigger values/criteria for the environmental values identified at (c) in accordance with the <a href="#">ANZECC (2000) Guidelines for Fresh and Marine Water Quality</a> and/or local objectives, criteria or targets endorsed by the NSW Government.</li> <li>e. Risk-based Framework for Considering Waterway Health Outcomes in Strategic Land-use Planning Decisions <a href="http://www.environment.nsw.gov.au/research-and-publications/publications-search/risk-based-framework-for-considering-waterway-health-outcomes-in-strategic-land-use-planning">http://www.environment.nsw.gov.au/research-and-publications/publications-search/risk-based-framework-for-considering-waterway-health-outcomes-in-strategic-land-use-planning</a></li> </ul>
<p>8. The EIS must assess the impacts of the project on water quality, including:</p> <ul style="list-style-type: none"> <li>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.</li> <li>b. Identification of proposed monitoring of water quality.</li> <li>c. Consistency with any relevant certified Coastal Management Program (or Coastal Zone Management Plan)</li> </ul>
<p>9. The EIS must assess the impact of the project on hydrology, including:</p> <ul style="list-style-type: none"> <li>a. Water balance including quantity, quality and source.</li> <li>b. Effects to downstream rivers, wetlands, estuaries, marine waters and floodplain areas.</li> <li>c. Effects to downstream water-dependent fauna and flora including groundwater dependent ecosystems.</li> <li>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).</li> <li>e. Changes to environmental water availability, both regulated/licensed and unregulated/rules-based sources of such water.</li> <li>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.</li> <li>g. Identification of proposed monitoring of hydrological attributes.</li> </ul>
<p><b>Flooding and coastal processes and associated hazards</b></p>
<p>10. The EIS must map the following features relevant to flooding as described in the Floodplain Development Manual 2005 (NSW Government 2005) including:</p> <ul style="list-style-type: none"> <li>a. Flood prone land.</li> <li>b. Flood planning area, the area below the flood planning level.</li> <li>c. Hydraulic categorisation (floodways and flood storage areas).</li> <li>d. Flood hazard</li> </ul>

11. The EIS must describe flood assessment and modelling undertaken in determining the project's design flood levels for events, including a minimum of the 5% Annual Exceedance Probability (AEP), 1% AEP, flood levels and the probable maximum flood, or an equivalent extreme event.
12. The EIS must model the effect of the project (including fill) on the current flood behaviour for a range of design events as identified in 11 above including the 0.5% and 0.2% AEP year flood events as proxies for assessing sensitivity to an increase in rainfall intensity of flood producing rainfall events due to climate change.
<p>13. Modelling in the EIS must consider and document:</p> <ul style="list-style-type: none"> <li>a. Existing council flood studies in the area and examine consistency to the flood behaviour documented in these studies.</li> <li>b. The impact on existing flood behaviour for a full range of flood events including up to the probable maximum flood, or an equivalent extreme flood.</li> <li>c. Impacts of the project 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, hazard categories and hydraulic categories.</li> <li>d. Relevant provisions of the NSW Floodplain Development Manual 2005.</li> </ul>
<p>14. The EIS must assess the impacts of the project on flood behaviour, including:</p> <ul style="list-style-type: none"> <li>a. Whether there will be detrimental increases in the potential flood affectation of other properties, assets, and infrastructure.</li> <li>b. Consistency with Council floodplain risk management plans.</li> <li>c. Consistency with any Rural Floodplain Management Plans.</li> <li>d. Compatibility with the flood hazard of the land.</li> <li>e. Compatibility with the hydraulic functions of flow conveyance in floodways and storage in flood storage areas of the land.</li> <li>f. Whether there will be adverse effect to beneficial inundation of the floodplain environment, on, adjacent to or downstream of the site.</li> <li>g. 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.</li> <li>h. Any impacts the project may have upon existing community emergency management arrangements for flooding. These matters are to be discussed with the NSW SES and Council.</li> <li>i. Whether the project incorporates specific measures to manage risk to life from flood. These matters are to be discussed with the NSW SES and Council.</li> <li>j. Emergency management, evacuation and access, and contingency measures for the project 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 NSW SES.</li> <li>k. Any impacts the project may have on the social and economic costs to the community as consequence of flooding.</li> </ul>

## Attachment B – Biodiversity and Conservation Division Project-specific Environmental Assessment Requirements (SSD 30956841)

### National Parks and Wildlife Estate

1. The EIS must identify and assess:
  - a. Whether the project is permissible under the *National Parks and Wildlife Act 1974* or consistent with the objects of the *Wilderness Act 1987* and the management principles for the wilderness area if this Act applies.
  - b. Alternative options that have been explored to avoid the park and a clear justification of any on-park components of the project.
  - c. Include documentation of consultation with the NSW National Parks and Wildlife Service (NPWS), and clearly document the role of the NPWS in the management of the Goolawah Reserve Trust, especially as it relates to the management of the subject lands and the standards of rehabilitation and reporting which may apply.
  - d. Clearly document any potential or likely impacts, both direct and indirect on the adjoining Goolawah National Park Estate, with reference to the following guidelines 'Developments adjacent to National Parks and Wildlife Service Lands' (NPWS) and include documented consultation with the Macleay Area Office of the National Parks and Wildlife Service.
  - e. In the case of a project that adjoins, is in the immediate vicinity of a park or upstream, the matters outlined in the *Developments adjacent to National Parks and Wildlife Service lands guidelines for consent and planning authorities* (DPIE 2020) and include:
    - i. The nature of the impacts, including direct and indirect impacts.
    - ii. The extent of the direct and indirect impacts.
    - iii. The duration of the direct and indirect impacts.
    - iv. The objectives of the reservation of the land.
  - f. Measures proposed to prevent, control, abate, minimise and manage the direct and indirect impacts including an evaluation of the effectiveness and reliability of the proposed measures.
  - g. Residual impacts.

## Attachment C – Guidance material (SSD 30956841)

Title	Web address
<b><u>Relevant Legislation</u></b>	
<i>Biodiversity Conservation Act 2016</i>	<a href="https://www.legislation.nsw.gov.au/#/view/act/2016/63/full">https://www.legislation.nsw.gov.au/#/view/act/2016/63/full</a>
<i>Coastal Management Act 2016</i>	<a href="https://www.legislation.nsw.gov.au/#/view/act/2016/20/full">https://www.legislation.nsw.gov.au/#/view/act/2016/20/full</a>
<i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i>	<a href="http://www.austlii.edu.au/au/legis/cth/consol_act/epabca1999588/">http://www.austlii.edu.au/au/legis/cth/consol_act/epabca1999588/</a>
<i>Environmental Planning and Assessment Act 1979</i>	<a href="http://www.legislation.nsw.gov.au/maintop/view/inforce/act+203+1979+cd+0+N">http://www.legislation.nsw.gov.au/maintop/view/inforce/act+203+1979+cd+0+N</a>
<i>Fisheries Management Act 1994</i>	<a href="http://www.legislation.nsw.gov.au/maintop/view/inforce/act+38+1994+cd+0+N">http://www.legislation.nsw.gov.au/maintop/view/inforce/act+38+1994+cd+0+N</a>
<i>Marine Parks Act 1997</i>	<a href="http://www.legislation.nsw.gov.au/maintop/view/inforce/act+64+1997+cd+0+N">http://www.legislation.nsw.gov.au/maintop/view/inforce/act+64+1997+cd+0+N</a>
<i>National Parks and Wildlife Act 1974</i>	<a href="http://www.legislation.nsw.gov.au/maintop/view/inforce/act+80+1974+cd+0+N">http://www.legislation.nsw.gov.au/maintop/view/inforce/act+80+1974+cd+0+N</a>
<i>Protection of the Environment Operations Act 1997</i>	<a href="http://www.legislation.nsw.gov.au/maintop/view/inforce/act+156+1997+cd+0+N">http://www.legislation.nsw.gov.au/maintop/view/inforce/act+156+1997+cd+0+N</a>
<i>Water Management Act 2000</i>	<a href="http://www.legislation.nsw.gov.au/maintop/view/inforce/act+92+2000+cd+0+N">http://www.legislation.nsw.gov.au/maintop/view/inforce/act+92+2000+cd+0+N</a>
<i>Wilderness Act 1987</i>	<a href="http://www.legislation.nsw.gov.au/viewtop/inforce/act+196+1987+FIRST+0+N">http://www.legislation.nsw.gov.au/viewtop/inforce/act+196+1987+FIRST+0+N</a>
<b><u>Biodiversity</u></b>	
Biodiversity Assessment Method (DPIE, 2020)	<a href="https://www.environment.nsw.gov.au/research-and-publications/publications-search/biodiversity-assessment-method-2020">https://www.environment.nsw.gov.au/research-and-publications/publications-search/biodiversity-assessment-method-2020</a>
Biodiversity Development Assessment Report	<a href="https://www.legislation.nsw.gov.au/#/view/act/2016/63/part6/div3/sec6.12">https://www.legislation.nsw.gov.au/#/view/act/2016/63/part6/div3/sec6.12</a>
Guidance and Criteria to assist a decision maker to determine a serious and irreversible impact (OEH, 2017)	<a href="https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Animals-and-plants/Biodiversity/guidance-decision-makers-determine-serious-irreversible-impact-190511.pdf">https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Animals-and-plants/Biodiversity/guidance-decision-makers-determine-serious-irreversible-impact-190511.pdf</a>
Accreditation Scheme for Application of the Biodiversity Assessment Method Order 2017	<a href="https://www.legislation.nsw.gov.au/regulations/2017-471.pdf">https://www.legislation.nsw.gov.au/regulations/2017-471.pdf</a>
Biodiversity conservation actions	<a href="https://www.environment.nsw.gov.au/research-and-publications/publications-search/ancillary-rules-biodiversity-conservation-actions">https://www.environment.nsw.gov.au/research-and-publications/publications-search/ancillary-rules-biodiversity-conservation-actions</a>
Reasonable steps to seek like-for-like biodiversity credits for the purpose of applying the variation rules	<a href="https://www.environment.nsw.gov.au/research-and-publications/publications-search/ancillary-rules-reasonable-steps-to-seek-like-for-like-biodiversity-credits">https://www.environment.nsw.gov.au/research-and-publications/publications-search/ancillary-rules-reasonable-steps-to-seek-like-for-like-biodiversity-credits</a>
Threatened Species Website	<a href="http://www.environment.nsw.gov.au/threatenedspecies/">www.environment.nsw.gov.au/threatenedspecies/</a>
NSW BioNet (Atlas of NSW Wildlife)	<a href="http://www.bionet.nsw.gov.au/">www.bionet.nsw.gov.au/</a>

Title	Web address
NSW guide to surveying threatened plants (OEH 2016)	<a href="http://www.environment.nsw.gov.au/resources/threatenedspecies/160129-threatened-plants-survey-guide.pdf">www.environment.nsw.gov.au/resources/threatenedspecies/160129-threatened-plants-survey-guide.pdf</a>
Surveying threatened plants and their habitats NSW survey guide for the Biodiversity Assessment Method (DPIE 2020)	<a href="https://www.environment.nsw.gov.au/research-and-publications/publications-search/surveying-threatened-plants-and-their-habitats-survey-guide-for-the-biodiversity-assessment-method">https://www.environment.nsw.gov.au/research-and-publications/publications-search/surveying-threatened-plants-and-their-habitats-survey-guide-for-the-biodiversity-assessment-method</a>
Threatened biodiversity survey and assessment - Guidelines for developments and activities (2004 working draft)	<a href="https://www.environment.nsw.gov.au/research-and-publications/publications-search/threatened-biodiversity-survey-and-assessment">https://www.environment.nsw.gov.au/research-and-publications/publications-search/threatened-biodiversity-survey-and-assessment</a>
Field survey methods for environmental consultants and surveyors when assessing proposed developments or other activities on sites containing threatened species (OEH undated)	<a href="https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Animals-and-plants/Threatened-species/field-survey-method-guidelines.pdf">https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Animals-and-plants/Threatened-species/field-survey-method-guidelines.pdf</a>
NSW Survey Guide for Threatened Frogs (DPIE 2020)	<a href="https://www.environment.nsw.gov.au/research-and-publications/publications-search/nsw-survey-guide-for-threatened-frogs">https://www.environment.nsw.gov.au/research-and-publications/publications-search/nsw-survey-guide-for-threatened-frogs</a>
'Species credit' threatened bats and their habitats (OEH 2018)	<a href="https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Animals-and-plants/Threatened-species/species-credit-threatened-bats-survey-guide-180466.pdf">https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Animals-and-plants/Threatened-species/species-credit-threatened-bats-survey-guide-180466.pdf</a>
BioNet Vegetation Classification - NSW Plant Community Type (PCT) database	<a href="http://www.environment.nsw.gov.au/research/Vegetationinformationsystem.htm">www.environment.nsw.gov.au/research/Vegetationinformationsystem.htm</a>
SEED Data Portal (access to online spatial data)	<a href="http://data.environment.nsw.gov.au/">http://data.environment.nsw.gov.au/</a>
Department of Primary Industry Policy and guidelines for fish habitat conservation and management (update 2013)	<a href="https://www.dpi.nsw.gov.au/fishing/habitat/publications/pubs/fish-habitat-conservation">https://www.dpi.nsw.gov.au/fishing/habitat/publications/pubs/fish-habitat-conservation</a>
List of national parks	<a href="http://www.environment.nsw.gov.au/NationalParks/parksearchatoz.aspx">http://www.environment.nsw.gov.au/NationalParks/parksearchatoz.aspx</a>
Revocation, recategorisation and road adjustment policy (OEH, 2012)	<a href="https://www.environment.nsw.gov.au/topics/parks-reserves-and-protected-areas/park-policies/revocation-recategorisation-and-road-adjustment">https://www.environment.nsw.gov.au/topics/parks-reserves-and-protected-areas/park-policies/revocation-recategorisation-and-road-adjustment</a>
Developments adjacent to National Parks and Wildlife Service lands Guidelines for consent and planning authorities (DPIE 2020)	<a href="https://www.environment.nsw.gov.au/research-and-publications/publications-search/developments-adjacent-to-national-parks-and-wildlife-service-lands">https://www.environment.nsw.gov.au/research-and-publications/publications-search/developments-adjacent-to-national-parks-and-wildlife-service-lands</a>
<b><u>Acid sulfate soils</u></b>	
Acid Sulfate Soils Planning Maps via Data.NSW	<a href="http://data.nsw.gov.au/data/">http://data.nsw.gov.au/data/</a>
Acid Sulfate Soils Manual (Stone et al. 1998)	<a href="http://www.environment.nsw.gov.au/resources/epa/Acid-Sulfate-Manual-1998.pdf">http://www.environment.nsw.gov.au/resources/epa/Acid-Sulfate-Manual-1998.pdf</a>



Title	Web address
National Acid Sulfate Soils Guidance: National acid sulfate soils identification and laboratory methods manual, Department of Agriculture and Water Resources, Canberra, ACT. (Sullivan, L, Ward, N, Toppler, N and Lancaster, G. 2018a).	<a href="https://www.waterquality.gov.au/sites/default/files/document/s/dewatering-acid-sulfate-soils.pdf">https://www.waterquality.gov.au/sites/default/files/document/s/dewatering-acid-sulfate-soils.pdf</a>
National Acid Sulfate Soils guidance: National acid sulfate soils sampling and identification methods manual, Department of Agriculture and Water Resources, Canberra ACT. (Sullivan, L, Ward, N, Toppler, N and Lancaster, G. 2018b).	<a href="https://www.scu.edu.au/media/scueduau/eal/documents/National-acid-sulfate-soils-sampling-and-identification-methods-manual.pdf">https://www.scu.edu.au/media/scueduau/eal/documents/National-acid-sulfate-soils-sampling-and-identification-methods-manual.pdf</a>
National Acid Sulfate soils Guidance: Overview and management of monosulfidic black ooze (MBO) accumulations in waterways and wetlands, Department of Agriculture and Water Resources, Canberra ACT. (Sullivan, LA, Ward, NJ, Bush, RT, Toppler, NR, Choppala, G. 2018c)	<a href="https://www.scu.edu.au/media/scueduau/eal/documents/Overview-and-management-of-monosulfidic-black-ooze-MBO-accumulations-in-waterways-and-wetlands.pdf">https://www.scu.edu.au/media/scueduau/eal/documents/Overview-and-management-of-monosulfidic-black-ooze-MBO-accumulations-in-waterways-and-wetlands.pdf</a>
National Acid sulfate soils guidance: Guidelines for the dredging of acid sulfate soil sediments and associated dredge spoil management, Department of Agriculture and Water Resources, Canberra, ACT (Simpson, SL, Mosley, L, Batley, GE and Shand P. 2018).	<a href="https://www.waterquality.gov.au/sites/default/files/document/s/dredging-sediments-spoil.pdf">https://www.waterquality.gov.au/sites/default/files/document/s/dredging-sediments-spoil.pdf</a>
National Acid Sulfate Soils Guidance: Guidance for the dewatering of acid sulfate soils in shallow groundwater environments, Department of Agriculture and Water Resources, Canberra, ACT. (Shand, P, Appleyard, S, Simpson, SL, Degens, B, Mosley, LM 2018)	<a href="https://www.waterquality.gov.au/sites/default/files/document/s/dewatering-acid-sulfate-soils.pdf">https://www.waterquality.gov.au/sites/default/files/document/s/dewatering-acid-sulfate-soils.pdf</a>
<b><u>Flooding, Stormwater and Coastal Processes and Associated Hazards</u></b>	
Reforms to coastal erosion management	<a href="http://www.environment.nsw.gov.au/coasts/coastalerosionmgmt.htm">http://www.environment.nsw.gov.au/coasts/coastalerosionmgmt.htm</a>
Floodplain development manual	<a href="http://www.environment.nsw.gov.au/floodplains/manual.htm">http://www.environment.nsw.gov.au/floodplains/manual.htm</a>
Guidelines for Preparing Coastal Zone Management Plans	<a href="http://www.environment.nsw.gov.au/resources/coasts/130224CZMPGuide.pdf">http://www.environment.nsw.gov.au/resources/coasts/130224CZMPGuide.pdf</a>
NSW Climate Impact Profile	<a href="http://climatechange.environment.nsw.gov.au/">http://climatechange.environment.nsw.gov.au/</a>
Climate Change Impacts and Risk Management	<a href="#">Climate Change Impacts and Risk Management: A Guide for Business and Government, AGIC Guidelines for Climate Change Adaptation</a>
<b><u>Water</u></b>	
Water Quality Objectives	<a href="http://www.environment.nsw.gov.au/ieo/index.htm">http://www.environment.nsw.gov.au/ieo/index.htm</a>
ANZECC (2000) Guidelines for Fresh and Marine Water Quality	<a href="http://www.environment.gov.au/water/publications/quality/australian-and-new-zealand-guidelines-fresh-marine-water-quality-volume-1">www.environment.gov.au/water/publications/quality/australian-and-new-zealand-guidelines-fresh-marine-water-quality-volume-1</a>

Title	Web address
Applying Goals for Ambient Water Quality Guidance for Operations Officers – Mixing Zones	<a href="http://deccnet/water/resources/AWQGuidance7.pdf">http://deccnet/water/resources/AWQGuidance7.pdf</a>
Approved Methods for the Sampling and Analysis of Water Pollutant in NSW (2004)	<a href="http://www.environment.nsw.gov.au/resources/legislation/approvedmethods-water.pdf">http://www.environment.nsw.gov.au/resources/legislation/approvedmethods-water.pdf</a>