

RTC4512A**Unit Descriptor****Unit Sector****Prepare acid sulphate soil management plans**

Prepare acid sulphate soil management plans

No sector assigned

ELEMENT**PERFORMANCE CRITERIA**

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| 1. Conduct desktop assessment of the land and groundwater disturbing activity for potential and actual ASS risk | 1.1 Current/proposed land use established and documented following discussions with landholder and relevant consent authority.
1.2 Site data assessed following industry guidelines and relevant consent authority standards.
1.3 Compliance issues established/checked with relevant regulatory authority or environmental legislation and/or industry procedures.
1.4 Site investigations communicated to proponent/landholder and concurrence is established to develop a management plan in accordance with relevant consent authority requirements. |
| 2. Develop ASS remediation/management strategy | 2.1 Field investigation and laboratory test data reviewed and matched to strategy options consistent with industry principles and relevant consent authority standards.
2.2 ASS management options identified consistent with industry guidelines and relevant consent authority requirements.
2.3 Remediation/management strategies identified and documented in consultation with the landholder/developer and relevant consent authority. |
| 3. Prepare an ASS site management plan | 3.1 Remediation/management strategies are checked against industry guidelines and relevant consent authority requirements.
3.2 Design specifications for structures incorporated in management plan details.
3.3 Monitoring strategies for the site are detailed in line with prevailing site factors and industry guidelines and relevant consent authority standards.
3.4 On site responsibilities listed following industry guidelines and relevant consent authority requirements.
3.5 Contingency procedures in accordance with industry guidelines and relevant consent authority requirements. |

KEY COMPETENCIES

What processes should be applied to this competency standard? There are a number of processes that are learnt throughout work and life, which are required in all jobs. They are fundamental processes and generally transferable to other work functions. Some of these are covered by the key competencies, although others may be added. The questions below highlight how these processes are applied in this competency standard. Following each question a number in brackets indicates the level to which the key competency needs to be demonstrated where 0 = not required, 1 = perform the process, 2 = perform and administer the process and 3 = perform, administer and design the process.

Key Competency	Example of Application	Performance Level
Communicating ideas and information	By discussing ASS management plans and strategies at meetings, or formally in writing with clients and stakeholders.	3
Collecting analysing and organising information	Planning ASS management plans and strategies will require detailed information to be collected, analysed and organised by research and consultation	3
Planning and organising activities	Planning ASS management plans and strategies requires extensive planning and organising of resources and others according to enterprise guidelines, industry best practice, and relevant consent authority standards.	3
Working with others and in teams	Planning ASS management plans and strategies will require the development and management of ASS aware work teams to achieve outcomes.	3
Using mathematical ideas and techniques	Complex mathematical techniques relating to ASS management plans and strategies and design could be applied in the design capacities of infrastructure and the implementation of laboratory result recommendations.	3
Solving problems	While planning ASS management plans, strategies and contingencies, technical, organisational and cultural problems may arise requiring complex solutions.	3
Using technology	Analysis, design, monitoring and presentation technology may be required.	3

RANGE STATEMENT

What current/proposed land use may be included?

Stock grazing, cropping, farm forestry, dairying, water, plantation, horticulture, aquaculture, drainage schemes, subdivisions, access tracks, infrastructure development, urban development and managed riparian zone, wetlands, open space reserve areas and emergency works.

What site data may be included?	Desktop indicators including interpretation of ASS risk and planning maps and Local Environmental Plans, site investigation of surface and ground water, soils, plants, and laboratory test results on soils and water.
What ASS assessment tools may be included?	Risk maps (NSW), planning maps (NSW), ASS Manual (NSW), relevant guidelines, field testing procedures, analysis of ASS laboratory tests and results, and associated amelioration recommendations.
What ASS management factors may be included?	Type of land use and/or works, land class (LGA zoning and ASS Planning and Risk Map classes), site characteristics, land tenure, drainage administration, construction methodology, materials remediation, and site rehabilitation to industry guidelines and relevant consent authority standards.
Which remediation/management strategies may be included?	Avoidance, dilution, containment, neutralisation and transformation.
Which remediation management planning options may be included?	Options may include but not be limited to soil and water management on site and off site, schedule of works, and contingency procedures.
Which site design specifications may be included?	Civil, agricultural and remediation works such as capacities of drains and pipes, and engineering specifications of stabilising ponds, excavations, stabilising structures, flood gates, and materials stockpile areas. Soil and water amelioration and disposal.
Which monitoring procedures may be included?	Monitoring the approved plan to industry guidelines and relevant consent authority standards by establishing a record and documentation system, detailing the roles and responsibilities of people involved in the monitoring process, and implementing contingency procedures to address any unsuccessful management strategy or treatment.
What other site responsibilities may be included?	Site induction of all stakeholders with regard to individual responsibilities, duty of care, and reinforcement of the requirement to implement the approved planned works to industry guidelines and relevant consent authority standards.

EVIDENCE GUIDE

What specific knowledge is needed to achieve the performance criteria?

- Knowledge and understanding are essential to apply this standard in the workplace, to transfer the skills to other contexts, and to deal with unplanned events. The knowledge requirements for this unit are listed below:
- relevant environmental, planning and groundwater legislation
- planning process for remediation and management plans
- principles of duty of care and due diligence
- soils and soil chemistry
- levels and levelling
- earthmoving principles
- total catchment issues
- environmental impact issues
- managing acid leachate water flows
- subsurface and surface drainage principles and systems.

What specific skills are needed to achieve the performance criteria?

To achieve the performance criteria, some complementary skills are required. These skills include the ability to:

- ability to assess field and laboratory results from AASS and PASS sites
- collaborate with designers and relevant consent authority
- effectively communicate to the landowner, relevant consent authority and contractors
- develop remediation and management strategies
- develop monitoring strategies
- prepare works action plans
- prepare ASS management plans
- prepare reports on materials management and remediation and site rehabilitation to implement approved ASS plans.

Are there other competency standards that could be assessed with this one?

This competency standard could be assessed on its own or in combination with other competencies relevant to the job function.

Essential Assessment Information

There is **essential information about assessing this competency standard for consistent performance and where and how it may be assessed**, in the Assessment Guidelines for this Training Package. All users of these competency standards must have **access** to the **Assessment Guidelines**. Further advice may also be sought from the relevant **sector booklet**.