

Water Resource Management

In today's environment, successful management of water resources is a priority for land managers. Good land management depends on adequate, reliable water supplies and the ability to control and manage water runoff. Soil Conservation Service can assist landholders and planning managers to develop and implement a long-term water management plan.

Catchment management and runoff control

Soil Conservation Service can provide advice and assistance in the management of water catchments, water quality and control of surface water flow. This includes the design and implementation of water conservation works for waterways and flood routing to gully head stabilisation works.

Soil Conservation Service also undertakes integrated catchment modelling to determine the most cost-effective measures to control sediment movement and provide stability.

Detention ponds and artificial wetlands

Our expertise includes the survey, design, supervision and construction of sediment control ponds and artificial wetlands. These systems improve water quality, enhance erosion control and provide habitats for wildlife.

Channels, rivers and waterways

Soil Conservation Service has the experience and skills required to effectively assess and resolve issues with natural and artificial waterways.

We can provide advice and practical services to help you with:

- riverbank stabilisation
- riverbed stabilisation
- sediment transport in alluvial river systems
- channel design
- remediation of urban stream banks
- loose rock channels and fishways
- soft engineering solutions.

Farm and water supply dams

Soil Conservation Service has particular expertise in farm water management, including surface water flow management, designing farm water reticulation schemes and all aspects of farm dam construction.





When located and constructed properly, farm dams greatly enhance the value and aesthetic appeal of any property. They are particularly useful in controlling erosion by:

- reducing flows by storing runoff
- trapping sediment on site
- blocking active gullies and diverting flows to a stable area
- drowning out active gully heads with stored water.

We ensure dams are located to maximise water storage by performing field and laboratory testing to determine whether the soil is suitable. We are skilled in dam and spillway design, ensuring that the right construction technique is used for each situation.

Gully reclamation

Water flowing in a concentrated area - that is not sufficiently protected by permanent grass cover - can result in the formation of gullies. Soil Conservation Service can develop systems to safely divert flow, fill the gully and return it to productive pasture.

Gully shaping and other aesthetic practices can be employed where filling is impractical or uneconomic. We can also design and implement a solution to shape the sides of a gully where it is too deep for filling to be practical, or if the gully still needs to carry water.

Water sensitive urban design

Water supply and management is not just an issue for country areas. Soil Conservation Service provides advice for urban water management, including stormwater design, urban hydrology, and controlling water runoff in populated areas.

Salinity planning and management

The issue of dryland salinity and rising water tables can lead to the loss of native vegetation, soil structure problems, soil erosion, and land degradation. In urban situations, building foundations and infrastructure can be severely impacted.

We can provide an accurate land assessment and following this, develop an effective plan of management to address recharge and discharge areas and regenerate unproductive land.

Want to know more?

For more information on how we can work with you on soil conservation and land rehabilitation projects, please contact your nearest Soil Conservation Regional Manager.

Go to www.scs.nsw.gov.au for office locations and contact details.



Local Land
Services



Soil Conservation
Service