

EROSION AND SEDIMENT CONTROL - THE BASICS

Everyone working on development sites is responsible for preventing sediment pollution caused by erosion. Follow the practices described below to help minimise erosion on your site, meet your legal requirements, and help protect our waterways.



Drainage controls divert upslope runoff around your site, reducing the amount of water needing to be treated.

Drainage controls include diversion channels, scour protection, and early installation of roof drainage.



Erosion controls stop soil on site from moving in the first place.

Erosion controls include minimising soil disturbance, keeping existing plants and vegetation, revegetating as you go, using erosion mats and blankets, and protecting stockpiles.



Sediment controls capture soil that is already eroding and prevent it from leaving your site.

Sediment controls include stabilised site access, sediment fences, protecting stormwater pits, and rock filter dams.

Key steps to effective erosion and sediment control:

- Have an Erosion and Sediment Control Plan (E&SCP) and make sure everyone working on site understands and maintains it.
- Install erosion and sediment controls before the start of any ground disturbance.
- Minimise the area of soil disturbed and exposed to erosion at any one time.
- Preserve existing vegetation.
- Divert 'clean' runoff away from the work site but not onto other property.
- If sediment does accidentally become mobile, capture and clean runoff before it leaves your site.
- Revegetate disturbed areas quickly.
- Inspect and maintain your erosion and sediment controls throughout the project. Maintenance is key.

Here are the basics to reduce erosion and control sediment on your site.

All builders and developers are responsible for erosion and sediment control during each phase of a development. Having a practical understanding of erosion and sediment control will help you meet your legal responsibilities and protect the environment.

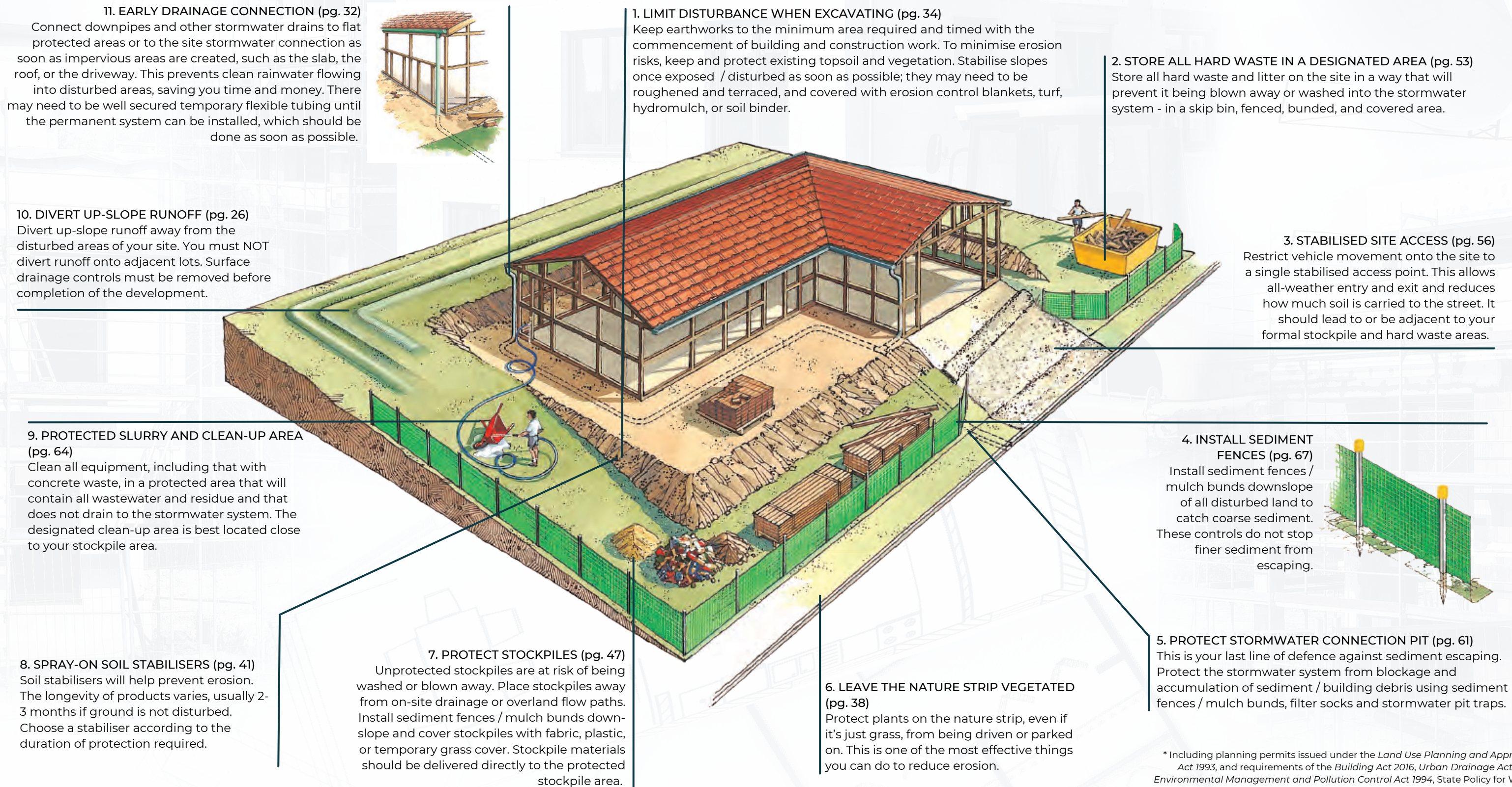
Under Tasmanian law* and each council's stormwater management strategy you must control sediment on your site so that it does not cause an environmental nuisance, environmental harm, or property damage.

Effective erosion and sediment control also protects local waterways and the species that live there from sediment pollution. Sediment can carry other pollutants such as cement and metals. You will also be preventing the stormwater system from becoming clogged, potentially causing increased flooding.

For more information about your legal responsibilities, controls and how to install them, download *Erosion and Sediment Control - The fundamentals for development in Tasmania* from the TEER Program or Derwent Estuary Program websites. Page numbers in the captions below refer to that document.

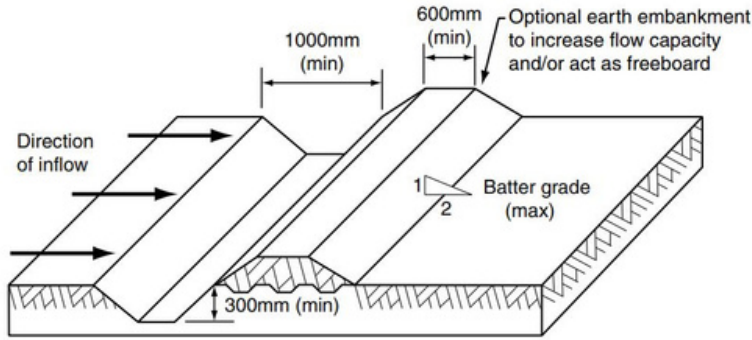
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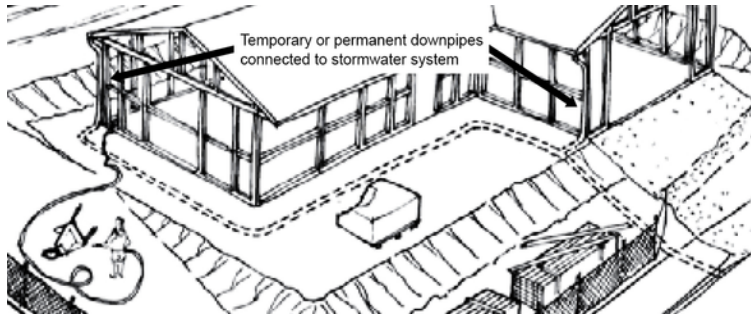


* Including planning permits issued under the *Land Use Planning and Approvals Act 1993*, and requirements of the *Building Act 2016*, *Urban Drainage Act 2013*, *Environmental Management and Pollution Control Act 1994*, *State Policy for Water Quality Management 1997*, or future equivalents.

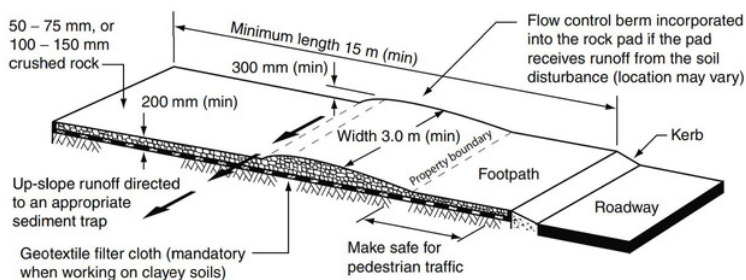
Remember, each site is different. Controls need to be assessed on a site-by-site basis as well as for different activities.



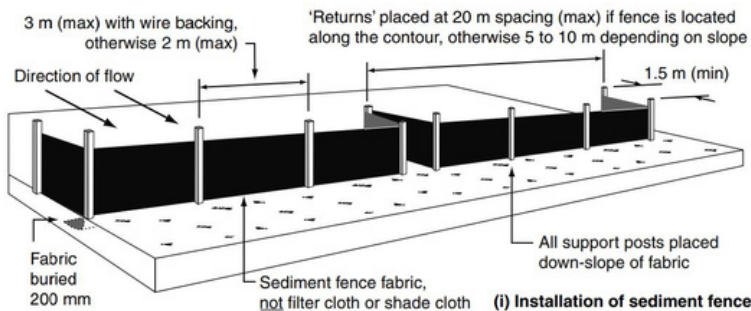
1. Diversion drain. The drain channel must be at least 150 mm deep with a curved shape that will be site specific. Stabilise the flow path to protect it from scour by lining the drain with matting or rock. If dispersive soils are present, create diversion drains by building soil berms instead of digging.



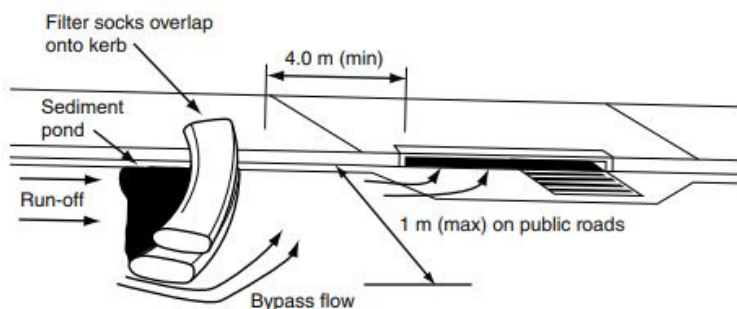
2. Early drainage connection. Connect downpipes and other drainage to the stormwater system as soon as the roof is on and / or other impervious surfaces are constructed, such as driveways, parking areas, or the building slab. Temporary flexible downpipes can be useful until permanent pipes and drainage system is in place.



3. Stabilised site access. Stabilised access is from the site boundary to a formal stockpile area or work site; minimum length for small developments is 10 m. Strip at least 150 mm of topsoil, cover with geotextile then a 200 mm thick pad. Divert water from this control to appropriate sediment controls.



4. Sediment fences. Install parallel to the contour with ends angled upwards. Bury fabric 200 mm deep. Join sections of fabric at a support post with a 2 m overlap. Ensure fabric is securely attached to all support posts. Not suitable for concentrated flow paths, creeks, or major drainage lines.



5. Stormwater pit protection. These controls are your last line of defence to protect the stormwater system by placing controls around or inside stormwater pits on site (private) and off site (public). Sediment fences, filter socks, or stormwater pits traps could be used depending on the site specific situation. Filter socks are permeable synthetic socks filled with sand, compost, straw, or aggregate, placed in the pathway of runoff. Place cones around controls in the gutters or on roads to prevent vehicles damaging them.