

CHAPTER 3.9 EROSION AND SEDIMENT CONTROL

3.9.1 INTRODUCTION

This Chapter applies to all land within the Central Coast Council Local Government Area.

3.9.1.1 Relationship to other Chapters and Policies

This Chapter must be read in conjunction with the relevant development provisions, environmental controls and location specific development controls of the Development Control Plan.

3.9.1.2 Soil Disturbance

The purpose of this Chapter is to provide detailed guidelines for the submission of documents for the management of soil and water during construction works to support Development Applications.

OBJECTIVES

- To maintain healthy, productive and diverse water catchments on the Central Coast
- To protect streams, waterways, drainage systems, public reserves, roads and bushland adjoining private property from soil erosion and sedimentation
- To manage soil disturbance, groundwater interception and overland flows
- To guide satisfactory land and water management practices
- Meet the legislative requirements of the *Protection of the Environment Operations Act 1997*

REQUIREMENTS

The requirements for erosion and sediment control measures depend on the area to be disturbed and the type of activity proposed. The requirements for lodgement of a development application are set out in the table below.

Area of Disturbance	Development Type	Requirements
0 – 250m ²	dwelling additions small driveways garages/carports	Temporary erosion & sediment controls Or Erosion & Sediment Control Plan (for Sensitive Sites – see 1.2.1)
250m ² – 2500m ²	dwelling houses commercial/industrial small subdivisions medium/high density residential minor civil works	Erosion & Sediment Control Plan
2500m ² or greater	large subdivisions commercial/industrial medium/high density residential major civil works.	Soil and Water Management Plan

Table 1

All development must:

- Minimise soil disturbance on the site
- Minimise the extent of cut and fill excavation
- Control discharge of sediment, nutrients and other pollutants during works
- Retain sediment eroded by water or wind on the development site
- Prevent water pollution from occurring

3.9.1.2.1 Site disturbance 0 – 250m²

Where less than 250m² of land is being disturbed, temporary erosion and sediment control measures must be installed and maintained within an around the disturbed area. This may include development such as dwelling additions, small driveways garages/carports and utility installations. Reasonable care must be exercised during construction to prevent land degradation, tracking sediment offsite and polluting receiving waters.

Environmentally Sensitive Sites includes soil disturbances of land:

- with a slope greater than 20%
- adjacent to a watercourse or wetland
- with threatened species habitat or an endangered ecological community onsite

Where land to be disturbed is less than 250m² and is adjacent to Environmental Sensitive Areas, an Erosion and Sediment Control Plan is required to be submitted with the development application.

3.9.1.2.2 Site disturbance 250m² – 2500m²

An Erosion and Sediment Control Plan (ESCP) is required where 250m² to 2500m² of land is to be disturbed. This may include dwelling houses, long driveways, commercial/industrial developments, small subdivisions, medium/high density residential development and minor civil works. The ESCP must be submitted with the development application and shall:

- a Be prepared in accordance with Section 2.2 of the *Managing Urban Stormwater Blue Book (Landcom, 2004)* and include:
 - i Site plan
 - site boundaries
 - vegetation
 - site contours
 - access and internal roads
 - existing and proposed drainage patterns and stormwater discharge points
 - Areas
 - ii Construction details
 - Schedule of works (e.g. construction and maintenance)
 - Extent of disturbance
 - Stabilised vehicle access
 - Scale and extent of bulk earthworks
 - Clean water diversion drains
 - Stormwater management (e.g. run off, roof water)
 - Dewatering from excavation pits
 - Topsoil and stockpile location and management
 - Erosion and sediment control measures (e.g. turf, mulch, traps, fences)
 - Site rehabilitation
- b Be prepared by a suitably qualified accredited or experienced practitioner.

- c Be prepared with conceptual details and locations for the various mitigation measures proposed (i.e. sediment fences, sandbags and controlled access points).
- d Demonstrate that appropriate controls have been planned to minimise erosion and sediment pollution both on and off the site.
- e Include specifications and or calculations which illustrate that the control measures have been designed to exceed capacity requirements from the surrounding catchment.
- f Be able to be modified as required during works to achieve erosion and sediment control throughout the construction works.

Further information of the preparation of ESCP's is detailed in Chapter 9 of the *Managing Urban Stormwater Blue Book* (Landcom, 2004).

3.9.1.2.3 Site disturbance >2500m²

Soil and Water Management Plans (SWMP) are required where land disturbance exceeds 2500m². This may include large subdivisions, commercial/industrial developments, medium/high density residential development and major civil works. The SWMP must be submitted with the development application and shall be prepared:

- a In accordance with Section 2.3 and Chapters 4-9 of the *Managing Urban Stormwater Blue Book* (Landcom, 2004) and include:
 - i Conceptual details and locations for the various mitigation measures proposed for erosion and sediment control measure (i.e. sediment fences, sandbags and controlled access points).
 - ii Evidence that appropriate controls have been planned to minimise erosion and sediment pollution both on and off the site.
 - iii Provide soil loss and sediment basin calculations to support engineering designs.
 - iv Details on the maintenance and inspection schedules for all controls (i.e. treating, de-watering and cleaning the sediment basin). These must be carried out by suitably trained site personnel.
- b Be prepared by a suitably qualified accredited or experienced consultant.