



D

Overview of ESC practices

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D1.0 Overview of ESC practices

D1.1 Scope of Part 2

This part of the guideline outlines the ESC practices for earthwork activities that reflect the evolution of industry best practice and technological innovation. This part is split into four sections:

- **Section D - Overview of ESC practices:** Summarises the scope of Part 2 of the guideline, the practices included and the approach to new emerging practices/innovations
- **Section E - Erosion control practices:** Outlines best practice non-structural approaches to erosion control, as well as water management controls and soil stabilisation practices
- **Section F - Sediment control practices:** Outlines sediment control practices that are considered current best practice
- **Section G - Specific activities:** Explains what practices are most relevant for specific earthworks activities, including dewatering, small sites, roads and utilities, works within a watercourse, works within the CMA, quarrying and agriculture (farm tracking and general earthworks only).

For each practice detailed in Sections E and F:

- Guidance is provided in relation to design; construction, operation and maintenance; and decommissioning (where relevant)
- The guideline is structured in such a way that the construction, operation, maintenance, and decommissioning subsections for each practice can be printed separately from the design subsections. This will enable contractors (or other users) to only print out the sections they need to take on site.

Additional guidance for contractors on practices is provided in the Construction Quality Checklists Section in Appendix C. The purpose of these checklists is for contractors to complete on-site self-checks of construction quality for ESC practices. They are not intended as compliance or as-built checklists.

Recommended line types/symbols, e.g. ESC site plans/drawings are detailed in Appendix D. Example ESC site plans/drawings are provided in Appendix E. These are intended to provide guidance on what an ESC Plan should cover in terms of detail and content. Plans should always be tailored to the specific project and site.

D1.2 Current best practice methods and measures

The current best practice methods and measures covered in this part of the guideline include:

Table 4: Best practice methods and measures covered by this document

Erosion control practices E	Non-structural approaches	E1.0		Section	
	Water management controls	E2.0	Clean water' diversion channels and bunds	E2.1	
			Dirty water' diversion channels and bunds	E2.2	
			Contour drains (cut-offs)	E2.3	
			Check dams	E2.4	
			Pipe drop structures and flumes	E2.5	
			Stabilised entranceways	E2.6	
			Surface roughening	E2.7	
	Soil and surface stabilisation practices	E3.0	Top soiling and grass seeding	E3.1	
			Hydroseeding	E3.2	
			Turfing	E3.3	
			Mulching	E3.4	
			Geotextiles and erosion control blankets	E3.5	
	Sediment control practices F	Structural approaches	F1.0	Sediment retention ponds	F1.1
				Decanting earth bunds (including T bars)	F1.2
Silt fences				F1.3	
Super silt fences				F1.4	
Silt socks				F1.5	
Stormwater inlet protection				F1.5	
Coagulant and flocculant treatment		F2.0			

Section G - Specific activities refers back to some of the above practices where relevant.

D1.3 New emerging practices/innovations

This guideline includes a comprehensive selection of current best practice ESC measures that have proven their effectiveness in the field. Note that ongoing development and innovation of ESC measures is dynamic and evolving. As such, Greater Wellington Regional Council will consider the use of new emerging ESC practices/innovations not explicitly included in this guideline if the practice/innovation and performance can be demonstrated to be an appropriate alternative in line with the principles of this guideline.