



**CITY OF TUKWILA
Public Works Department
206-433-0179**

DEVELOPMENT BULLETIN C3

EROSION PREVENTION AND SEDIMENT CONTROL

When do I need to provide an erosion prevention and sediment control (ESC) plan?

All projects that will clear, grade, or otherwise disturb a site must provide erosion prevention and sediment controls to prevent, as much as possible, sediment transportation offsite to downstream drainage facilities and water resources, or onto other properties.

Why do I need to provide erosion prevention and sediment control?

Even small projects can contribute to downstream drainage impacts. All projects within the City must provide erosion prevention and sediment control in order to help prevent major adverse impacts; such as flooding due to obstructed drainage ways, smothering of salmon spawning beds, and creation of alga blooms in lakes.

What should the ESC plan include?

The plan must meet the requirements in the current King County Surface Water Design Manual, Core Requirement #5 and Appendix D. The plan should emphasize erosion prevention by minimizing the extent and duration of soil exposure.

For small projects, such as one single-family residence, the ESC plan must include:

- Clearing limits
- Cover Measures
- Perimeter Protection
- Seasonal Requirements
- Sediment Retention

For larger projects, clearing 5,000 square feet or more, the ESC plan must include the above items and also the following:

- Traffic Area Stabilization
- Dust Controls
- Surface Water Controls
- Implementation Requirements
- Maintenance Plan
- Permanent Stabilization Plan

DEVELOPMENT BULLETIN C3

EROSION PREVENTION AND SEDIMENT CONTROL

What measures are the most effective?

MEASURE	TEMP or PERM	PURPOSE*	RATING**
Clearing Limits			
Natural Vegetation	P	Preserve vegetation	E
Natural Buffer Zone	P	Sheet erosion	E
Fencing	T	Protect site	M
Dust Control			
Palliatives	T	Stabilize soil	E
Wet Season Requirements			
Winter shutdown	T	Stabilize site	E
Snow controls	T	Control snow melt	E
Cover Measures			
Mulch	T	Stabilize soil	E
Seeding	T/P	Stabilize soil	E
Plantings	P	Prevent erosion	E
Netting/Matting/Blankets	T	Stabilize soil	M
Sod	P	Stabilize soil	M
Plastic Sheeting	T	Stabilize soil	P
Perimeter Protection			
Silt Fence	T	Control sediment	E
Brush Barriers	T	Control sediment	M
Sand Bags	T	Control sediment	M
Straw Bales	T	Control sediment	P
Biofilter Bags	T	Control sediment	P
Traffic Area Stabilization			
Aggregate Entrance	T	Control sediment	E
Road/Parking	T	Control sediment	E
Gravel Filter Berm	T	Control sediment	M
Sediment Retention			
Sediment Trap	T	Trap sediment	E
Sediment Basin	P	Capture sediment	E
Surface Water Controls			
Pipe Slope Drain	T	Convey runoff down slope	E
Surface Roughening	P	Stabilize soil	E
Catch Basin Inserts	T	Trap sediment	E
Rock Splash Pad	P	Prevent erosion	E
Riprap	P	Stabilize soil	E
Interceptor Dikes and Swales	T	Runoff control	M
Check Dam	T	Control sediment/runoff	M
Gabion Walls/Mattresses	T	Convey and control runoff	M
Gradient Terraces	P	Stabilize soil	M
Level Spreaders	T	Discharge runoff	P

* Assumes used for all types of erosion unless otherwise indicated.

** Assumes correctly installed and properly maintained E=Excellent, M=Moderate, P=Poor

DEVELOPMENT BULLETIN C3

EROSION PREVENTION AND SEDIMENT CONTROL

What are the seasonal requirements?

Year around

- Install temporary cover measures on disturbed areas left unworked for more than 30 days

May 1 through September 30

- Install temporary cover measures on ALL areas left undisturbed for more than seven days.

October 1 through April 30 (wet season)

- Install temporary cover measures on ALL disturbed areas which will be left unworked for more than two days,
- Install temporary cover measures on stockpiles and steep cut and fill slopes,
- Retain onsite enough cover measure materials sufficient to cover all disturbed areas,
- **By October 8** provide temporary seed and mulch on all areas that will remain unworked until the end of the wet season,
- Mulch all seeded areas,
- Stabilize construction accesses.

This Bulletin should not be used as a substitute for codes and regulations. Your project will be reviewed for specific compliance to codes and regulations.