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# What are the CGP requirements?

- A temporary sediment basin is required when the total drainage area is  $\geq 10$  acres, or 5 acres when draining into exceptional waters or waters of unknown parameters.
- They are required to stay in until final stabilization.
- Maximum drainages area per basin is 50 acres.

## Questions? Call Us!

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# Temporary Sediment Basins

A quick guide on the requirements, construction, and maintenance of temporary sediment basins.





## The Big Picture

Sediment basins are designed to trap and store suspended sediment carried by surface water from a construction site. **This practice should be one of the first things installed on-site!** A sediment pond can later be modified to serve as a post-construction stormwater management control facility.

### Design components

- Wet/dry storage zones
- Forebay
- Principal spillway
- Outlet pipe
- Emergency spillway
- Berm/Dam embankment
- Outlet protection

## Keep in mind...

The sediment basin should be located to obtain the maximum storage of drainage from the site and also have ease of cleanout. The points where surface runoff enters the basin should be protected to prevent erosion; in many cases the elevation from the inflow to the bottom of the basin is large and can cause severe gullying and additional sediment generation.

Always inspect during construction for tight pipe joints, anti-seep collar, and adequate compaction around pipes.



Dewatering devices are required to allow the water to slowly drain down to the permanent wet pool level over a 72-hr dewatering period. Two recommended methods by TDEC are either using a surface skimmer or a perforated riser pipe attached to the principal spillway.

## Maintenance

- Clean out when basin is 50% full of sediment
- Ensure spillway is function correctly and there is no debris collected on top and clogging
- Ensure the permanent pool is maintained
- Ensure there are stable slopes with no internal erosion
- Under no circumstances should a sediment basin have an open bottom outlet

### Common mistakes

- Improperly closed low flow orifice
- No dewatering device is installed
- Rills/gullies form along embankment
- Short-circuiting between the inlets and outlets

