



Centralized Stormwater Structural Best Management Practices

Centralized Stormwater Structural Best Management Practices (BMP)

Description: Stormwater system is moderate to large in size, accepts runoff from mixed land use drainage areas or drainage area greater than 10.0 acres.

BMP Type	Description
<p>Bed Filter</p> <p><i>(Examples: Underground Sand Filter, Surface Sand Filter, Perimeter Sand Filter, Organic Media Filter)</i></p>	<ul style="list-style-type: none"> • A flow-through structure that uses granular media (e.g. sand or activated alumina) to actively filter stormwater to remove pollutants. • Little to no volume loss occurs through filtration process. • Filtration is controlled by flow rate through media, runoff discharged via outlet or underdrain. • Typically, moderate sized centralized BMPs but can be designed as small decentralized BMPs to treat small areas of imperviousness. • Treatment Process: Media Filtration. • Vegetation: No. • Location: Above ground or below ground. • Type: Centralized
<p>Detention Basin</p> <p><i>(Examples: Detention Pond)</i></p>	<ul style="list-style-type: none"> • A flow through basin with discrete inlets and outlets to detain stormwater runoff for some minimum time to reduce peak flows. • Must include at least one outlet at base of basin to allow complete draining between storms. • Little to no volume loss via infiltration. • Treatment Process: Particle Capture by settling. • Vegetation: Optional • Location: Above Ground • Type: Centralized
<p>Dry Basin</p> <p><i>(Examples: Extended Detention, Basin Dry Pond)</i></p>	<ul style="list-style-type: none"> • A flow through basin with discrete inlets and outlets to detain stormwater runoff for some minimum time to reduce peak flows. • Must include at least one outlet at base of basin to allow draining between storms. • Footprint is pervious and infiltration capacity of base is maintained to consistently infiltrate some fraction of volumes to unsaturated zone. • Moderate distribution of grass and/or tree species in basin likely and acceptable. No wetland/riparian vegetation. • Treatment Process: Infiltration, Particle Capture • Vegetation: Yes • Location: Above Ground • Type: Centralized



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<p>Infiltration Basin</p> <p><i>(Examples: Extended Detention, Basin Dry Pond)</i></p>	<ul style="list-style-type: none"> • A flow through BMP with highly permeable substrate (aggregate or rock) designed to store and infiltrate significant volumes of stormwater into unsaturated zone. • Little to no surface detainment storage • Vegetation distribution should be minimal (<10%) • Treatment Process: Infiltration • Vegetation: Yes, Minimal (<10%) • Location: Above Ground • Type: Centralized
<p>Wet Basin</p> <p><i>(Examples: Wet Pond, Retention Pond, Wetland Swale, Wet Extended Retention Pond, Stormwater Wetlands, Constructed Wetlands)</i></p>	<ul style="list-style-type: none"> • A flow through basin with discrete inlets and outlets to detain storm water runoff for some minimum time to reduce peak flows. • One or more outflow offices may exist at different elevations. Lowest outlet elevation sets wet pool capacity. • Dense vegetation is common, specifically wetland species or riparian species with very high densities. • Treatment Process: Bio-Chemical Cycling • Vegetation: Yes, dense wetland/riparian species. • Location: Above Ground • Type: Centralized
<p>Media Filter</p> <p><i>(Examples: Proprietary Subsurface Filtration Systems: Stormfilter® Perk Filter™ Jellyfish® Tree Box Biofilter (TreePod™), FloGard® Downspout Filter)</i></p>	<ul style="list-style-type: none"> • A proprietary subsurface flow-through structure that uses a membrane to actively filter stormwater pollutants. • Proprietary models may be selected to target the specific removal of the pollutants of concern. • Pollutant load reductions achieved but no stormwater volume reduction occurs (no infiltration). • May be within a confined space. • Treatment Process: Media Filtration • Vegetation: No • Location: Primarily Below Ground, some Above Ground. • Type: Centralized



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<p>Treatment Vault</p> <p><i>(Examples: Hydrodynamic Separator (e.g. Vortechs, CDS®, DVS) Wet Vault Detention, Vault Flow Separation, Vault Gross Solids Retention Devices.)</i></p>	<ul style="list-style-type: none">• A subsurface flow-through structure that physically separates sediment, trash, leaf litter, debris and other particulate pollutants from stormwater.• Pollutant load reductions achieved but no stormwater volume reduction or infiltration occurs within treatment vaults.• Accumulation of material at base of BMP can be observed and measured via manhole access.• Treatment Process: Particle Capture• Vegetation: No• Location: Below Ground• Type: Centralized