



NONPOINT SOURCE POLLUTION

STORMWATER MANAGEMENT SOLUTIONS

Nonpoint Source Pollution (NPS), one of the largest environmental concerns of this age, is the collection and conveyance of precipitation that moves over or through the ground. This runoff eventually deposits into the surrounding lakes, rivers, coastal or ground waters, and wetlands. Runoff often carries pollutants, chemicals and garbage; one can imagine the environmental impact if the proper precautions aren't taken.

When a previously permeable surface becomes impervious, such as with the installation of a parking lot or Astro-turf field, stormwater runoff is exacerbated. Because of this, each state has regulations to control NPS and direct any runoff into a stormwater management system.

While there are many types of stormwater systems, one commonly used is the open bottom, plastic stormwater chamber. Chambers are arch-shaped, durable plastic structures that differ in size and capacity by model. They can be used for stormwater retention and/or detention, and can do so simultaneously if required.



Whether the chamber is used for retention or detention depends on the inlet pipe location, allowing engineers to customize the system. Chambers are placed underground in trenches or beds to optimize above-ground development. Often, a designated row of chambers covered with geotextile fabric is employed for water quality, first-flush containment and as an access point for system maintenance. This row is then jetted out to remove contaminants.

CULTEC's Separator™ Row for water quality has been third-party verified for TSS removal.

Less expensive than pipe or concrete systems, subsurface plastic chambers have a smaller design footprint and can be stored on-site on pallets. With varying project constraints such as workable elevations or storage volume requirements, an extensive product line is essential. **CULTEC** offers the largest product line in industry, able to accommodate most site parameters with sizes ranging from 8.5" to 4 feet tall. Overall, plastic chambers are the smartest choice for reliable, economical stormwater management.