

OceanSave®

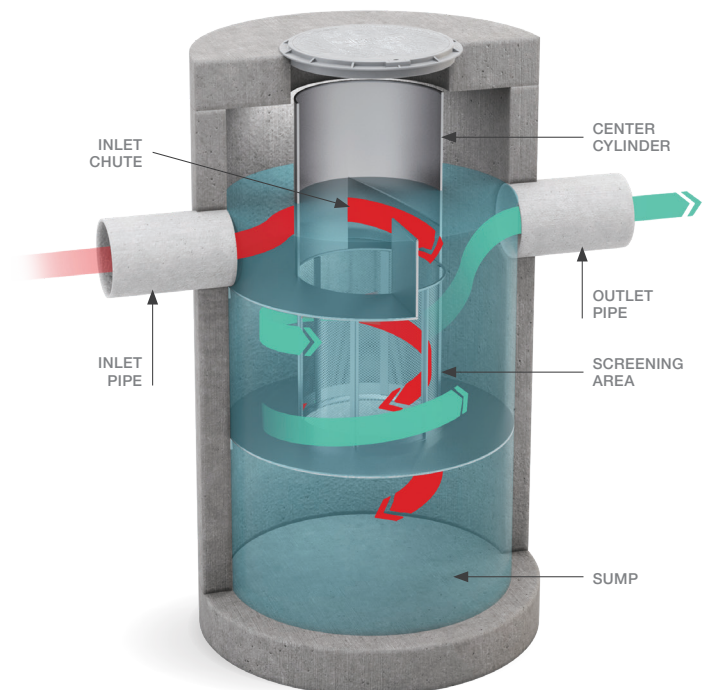
Full capture, high-capacity gross pollutant trap

The OceanSave® is a vortex type engineered stormwater treatment asset designed to remove litter, gross pollutants, sediment and associated pollutants from stormwater runoff as either a stand-alone technology or as part of a 'treatment train' (with stormwater treatment assets located downstream to provide further treatment).

The innovative screen design and specially designed internal configuration allows for higher flows than other similar technologies whilst ensuring floatables, settleable solids and neutrally buoyant pollutants are retained without screen blinding.

How does it work?

- One or more inlet pipes within a 130-degree range of the outlet pipe direct stormwater flow through a chute to the treatment chamber
- The specially designed inlet initiates a vortex at a higher flows than other similar sized vortex separators
- The specially designed screen in conjunction with swirling flow ensures screen blinding is eliminated unlike other direct screening devices
- The forces created by the vortex allow for pollutants to concentrate in the centre where they can either settle into the sump or remain floating within the screening area
- Neutrally buoyant material will also be trapped and retained
- A hydrocarbon baffle ensures that free hydrocarbons and oils are retained and prevented from escaping
- Flows that exceed the treatable flow rate are diverted to the outlet via an internal weir
- Treated and bypass flows exit via the outlet pipe





Features

- Vortex separator
- Innovative screen and internal configuration
- Easy to remove sectional screen panels
- Large separate storage sump
- Internal bypass and optional additional external bypass via a diversion box or pits
- Multiple pipe inlets

Benefits

- Superior pollutant removal
- Eliminates blinding and clogging
- No scour or resuspension of previously captured pollutants
- Flexibility in design
- Easy installation and maintenance
- Accepted technology



Configurations and Applications

The OceanSave® range covers most applications and needs. The fully trafficable precast concrete system can be arranged both on-line or off-line with low flow diversion. A range of diameters ensures your treatable flow rate requirement will be satisfied. This design flexibility makes the system ideal for a wide range of applications such as:

- Commercial, industrial and residential development, infill and redevelopment and stormwater quality retrofit applications
- Special projects, including highways, airports, seaports and military installations
- Pre-treatment for subsequent stormwater treatment assets (e.g. StormFilter®, biofiltration)

Maintenance

The key maintenance activity for the OceanSave® is the removal of accumulated sediment and gross pollutants (typically approximately every year) and inspection and cleaning of the screen (typically approximately every two years).

Speak to the team at Ocean Protect who can help you maintain your OceanSave®.