Is this the best OSD system ever?

OSD Systems are often very expensive and problematic to build. They can be complex and trades people to build them are hard to find.

These economical modular pre cast concrete Landscape Tanks offer a ready made solution, which is easy and simple to install.

You may not even need a costly traditional OSD system at all. Incorporate our Landscape Tanks OSD System as your Structural Retaining Wall, Front Fence, Pool Surround and you may be able to eliminate the costly traditional OSD system altogether.

Modular above or below ground use for massive cost savings. Tanks may be installed and plumbed in a matter of hours not weeks.

Have your OSD system as part of your attractive, quality structural retaining wall, front fence of pool surround. Sounds impossible doesn’t it, well its not and lots of people are doing it already and are loving the stunning results and great savings.

Incorporate water storage and OSD system combined whilst still acting as your retaining wall. Have half your retaining wall for water storage and the other half as your OSD system.

Designed using The Upper Parramatta River Catchment Authority Handbook of 2005 as a model.

(Handbook developed with assistance from Baulkham Hills Shire Council, Blacktown City Council, Holroyd City Council and Parramatta City Council)

Landscape Tanks comply with the design requirements of above handbook.

Visit: www.landscapetanks.com.au
Clever Design.
If you design your build correctly using our Landscape Tanks as a retaining wall or front fence you may not need a traditional costly OSD system at all.

High Grade Concrete - No Footings Required - Pre Engineered For Use (Empty) as Structural Retaining Walls/OSD Systems - Three Sizes - Australia Wide.

Domestic and Commercial - Inbuilt Fully Draining HED Tank (if required) with S/S Machined Orifice and RH 30/30 Removable Mesh Screen.
Endless Storage Capacity.
Options
(Many OSD systems do not require all these features)

- HED unit with internal 3mm S/S Machined Orifice Plate.
- Removable RH 30/30 Gal mesh filter.
- HED tank and reservoirs drain fully empty to stormwater.
- Modular by design for endless storage capacity.
- Incorporate water storage (water tank) as part of your OSD system.
- Access hinged grates or polycarbonate hatch as appropriate.
- Above or below ground application.
- HED tanks may be in centre or at either end as required.
- Easy push fit cast in interconnecting “O” ring seals top and bottom to suit.
- Ventilation 100mm ports in each corner of planter top at rear.
- High grade pre cast concrete with SL62 mesh and 10mm bar.
- No footings required and very Cost effective.
System structures

100mm HED tank overflow into reservoirs for endless capacity.

Base of HED tank slopes towards orifice plate on side or end as required.

S/S Orifice plate. Located in slot in base of tank and affixed to internal sidewall of the tank using S/S Dyna bolts to ensure invert level of pipe is level with the tank floor for 100% drainage. Tanks all drain to HED tank and then to stormwater through orifice plate. V groves in base of HED tank ensure all water drains away effectively.

1° decline - eliminates ponding

The Landscape Tanks are very versatile and there are many and varied ways of configuring them to suit your project. The options offer endless water storage reservoir capacity. Place the HED unit (incorporating a pit and mesh filter) anywhere in the system to suit. Handy, lockable, easy access cover is standard with all HED units.

Commercial and high flow environments.

The Landscape Tanks can also be “open vented” to allow the tanks to take as much water as possible or when full, the excess stormwater (1/100 year storm) will flow to stormwater LPD. Large sized piping can be accommodated in this manner.
Supplementary information

OSD system and water tank storage combined—from roof only.

Two attractive options using combined water storage and OSD system combined. In both cases below the integrity of the retaining wall or front fence or pool surround is also maintained.

Water tank on bottom half of system.
OSD on the top.

Water tank at one end and OSD at the other end.

Standard flow path.

Water flow

Water emptying through control orifice
Emergency overflow may be located as required.

Orifice plate—3mm stainless.

Internal.
Face of tank wall showing orifice plate. Invert level of PVC pipe ensure complete draining.

External.
Tank wall showing PVC pipe inserted into rubber “O” ring seal. Orifice plate affixed on the internal side of concrete wall.
Access through planter top galvanised class B hinged grate.

Planter top with access

Flat top with access—not trafficable.

600mm x 600mm hinged grate - Class B

900mm x 600mm hinged grate - class B

Roof water only through standard tank 600mm tank filter—optional

Flat top available.
Supplementary information.

Tanks may be configured to form any shape, which suits the property or customer. See standard part numbers (below) but custom units are also available.

“Easy fit” interconnection EPDM rubber “O” ring seals.

Interconnection “easy fit” seals: (EPDM rubber)
The Landscape Tanks use their own patented highly effective proven easy fit “O” ring seal to join the tanks together. This results in virtually no plumbing works required to join the tanks together.

The seals are cast into the tanks during manufacture, enabling the PVC pipes to be inserted from either direction in one simple motion. They are very flexible and provide a water tight seal even in the most challenging environments.

Seals can be expected to last a lifetime and may be placed anywhere in the tanks as required. Seal sizes range from 50mm, 90mm and 100mm.
Technical specifications:

Full set of DWG downloadable files is available for downloading of our web site. 
Www.landscapetanks.com.au (go to the builders and architects tab)
All tanks measure 2800mm long and 1100mm wide.

**Capacity** (including trash pit and HED tank)
- Small tank 1,750 litres
- Medium unit 2,250 litres
- Large unit 3,150 litres

**Weight** (including planter top)
- Small unit 2.5 tonnes 1,055mm high
- Medium unit 2,250 tonnes 1,325mm high
- Large unit 4,00 tonnes 1,655mm high

**Concrete** (Standard—any strength available)
- High grade concrete (50mpa after 28 days).

**Lifting** (4 Swift anchor points per tank)
- Small tank 1.3 tonnes
- Medium tank 1.3 tonnes
- Large tank 2.5 tonnes.
- Planter tops (both sizes) 1.3 tonnes.

**HED tank/trash pit mesh**
RH 3030 galvanised

**Access Hatch**
Class B hinged galvanised grate.
Optional lockable lightweight access hatch.

**Delivery times**
Please allow three weeks from order

**Pipe plumbing sizes**
Standard 90mm
Optional 100mm
Equalising ports 50mm standard.
Equalising ports 90/100mm optional.

More detail on physical sizing please see below.
Custom design configurations available subject to discussions with Landscape Tanks staff.
*Specifications in this document are subject to change without notice.*
HED tank - includes:

- Galvanised hinged/lockable class B grates for easy access through planter top.
- Galvanised 3mm mild steel lightweight access top—lockable. (Optional)
- 3mm machined stainless steel orifice plate fitted internally - for total drainage.
- Removable internal galvanised RH/3030 mesh.
- S/S orifice plate may be located anywhere in the system as required.
- S/S orifice plate allows PVC pipe invert level to line up with the base of the tank.
- 90mm internal non return valve for equalising port between HED tank and reservoir.
- Internal concrete baffles between HED tank and reservoir.
- Step irons as required.
- Custom units as required.

Standard tank part numbers.