

SUDS/Green Infrastructure measures selected for this site (2019.11.26)

Suds Measures	Measures to be used on this site	Rationale for selecting/not selecting measure
Source Control		
Swales	Not Used	Site Constraints
Tree Pits	Not Used	Infiltration rate not suitable
Rainwater Butts/Rainwater Garden	Rainwater Gardens Used	
Rainwater harvesting	Not Used	Cost
Soakaways	Not Used	Infiltration rate not suitable
Infiltration trenches	Not Used	Infiltration rate not suitable
Permeable pavement		
- Grasscrete		
- Block paving		
- Porous Asphalt	Used in car park	
Green Roofs	Not Used	Pitched Roof
Filter strips	Not Used	No Benefit – pipes take roof water, no pollutants, Car Park has permeable asphalt for filtration
Bioretention systems	Not Used	Infiltration rate not suitable
Blue Roofs	Not Used	Pitched roof
Filter Drain	Not Used	No Benefit – pipes take roof water, no pollutants, Car Park has permeable asphalt for filtration
Site Control		
Detention Basins	Not Used	Site Constraints
Retentions basins	Not Used	Site Constraints
Regional Control		
Ponds	Not Used	Site Constraints
Wetlands	Not Used	Site Constraints
Other		
Petrol/Oil interceptor	Not Used	Less than 10 car spaces & Filtration through permeable asphalt
Attenuation tank – only as a last resort where other measures are not feasible	Due to poor infiltration storage is provided in the form of stone fill and hydro-brake.	
Oversized pipes– only as a last resort where other measures are not feasible		

Note:

1. Fingal has a preference for above ground Green Infrastructure rather than tanks or oversized pipes . Above ground flows through swales, basins etc are encouraged.
2. Demonstrate SUDS system will have sufficient Pollutant removal efficiency in accordance with Ciria Suds Manual C753
3. Basins sides should be no steeper than 1:4 and no deeper than 1.2m in the 1%AEP
4. Culverting shall be avoided where possible
5. De-culverting is encouraged.

Flood risk to be assessed

Flood risk	Applicable to subject site	Measures to reduce risk	Residual risk
Fluvial			
Pluvial			
Coastal			
Groundwater			
Dam/Embankment/Canal bank breach			
Network drainage			
Snow melt			
Watermain burst			

Note:

Models should consider the risk when outlets are surcharged