

# Sligo Wastewater Treatment Plant and Sludge Reception Facility



The Wastewater Treatment Plant and Sludge Reception Facility, which serves the greater Sligo County Council area entered into service in December 2008. The Treatment Plant was initially designed for a population equivalent (PE) of 50,000 with the potential to be increased to a capacity of

80,000 PE in the future. The combination of secondary and tertiary treatment processes at the Plant has eliminated the discharging of un-treated sewage into Sligo Bay and has allowed Irish Water / Sligo County Council to meet its obligations under various EU Directives.

The plant, operated by Celtic Anglian Water Ltd, on behalf of Sligo County Council, will provide primary settlement along with Aeration lanes & Final Clarification to achieve BOD/COD removal and partial nitrification. Process treatment includes:

- Fine screening;
- Grit removal;
- Odour control;
- Primary settlement;
- Biological secondary treatment
- Sludge pasteurisation technology
- UV disinfection.

Sludges are treated by pasteurisation and digestion before dewatering to 25% dry solids and recycled to agriculture as a fertiliser.

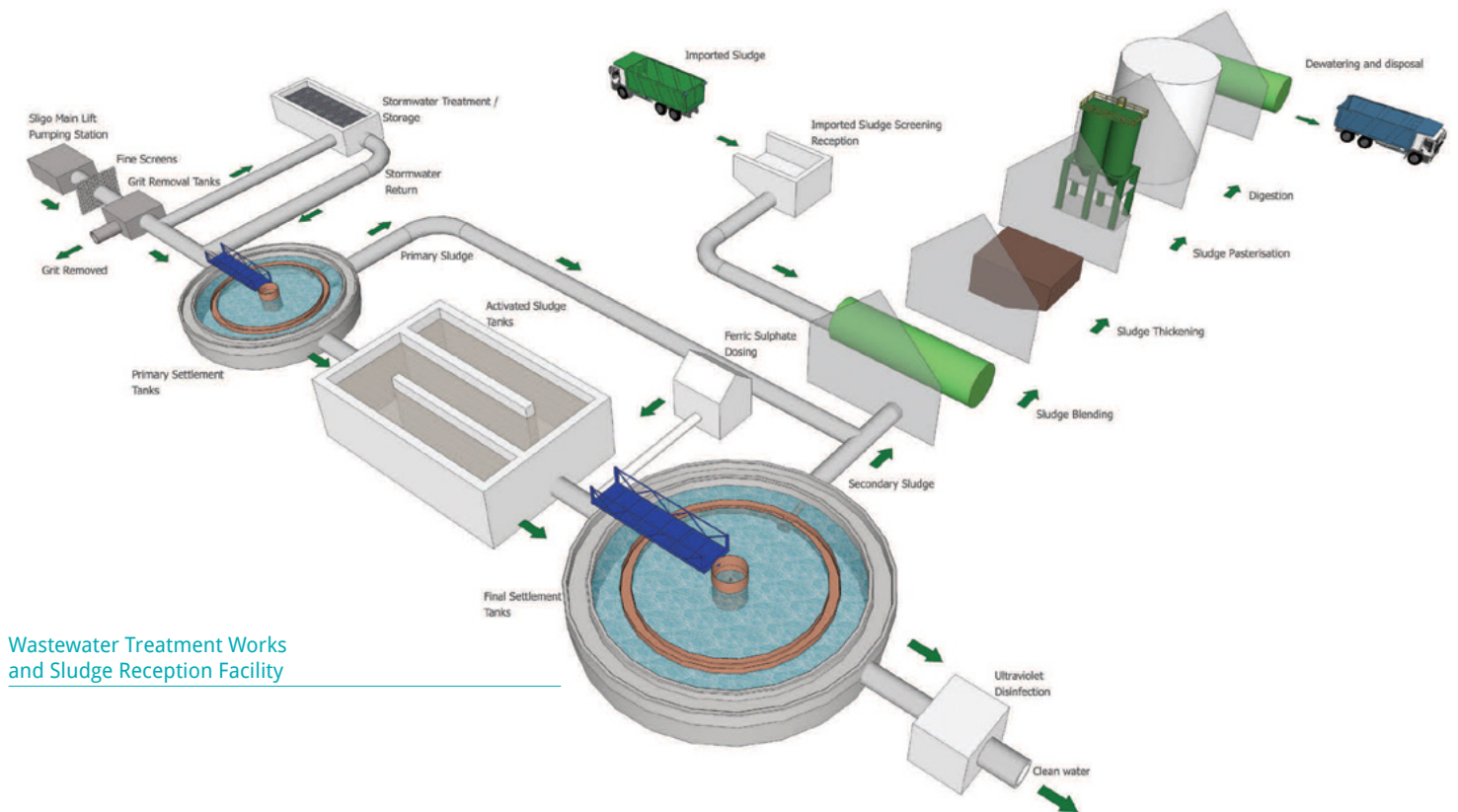
Sligo has also been designated as a county sludge hub centre and therefore includes a sludge acceptance facility and treatment centre for sludges generated in County Sligo. It is also expected to be able to receive biosolids for treatment from outside the county boundary.

The sludge produced from the site and imported sludge must receive the appropriate treatment to reach the standards necessary to be classified as "Class A" biosolids to be reused by spreading on agricultural land.

The plant is constructed in a bunded area of Sligo estuary, which was developed during dredging works in Sligo harbour in the 1980's. Ultra Violet treatment for bacterial reduction is provided to protect shellfish activities in Sligo Bay area.

**KEY DATA:**

Population Equivalent:	50,000
Dry Weather Flow:	145 l/s
Flow to Full Treatment:	434l/s
Maximum flow to storm:	6569 l/s
Maximum flow to Works:	703 l/s
BOD:	3000 kg/d
Suspended Solids:	3000 kg/d
Orthophosphorous:	148 kg/d



Wastewater Treatment Works and Sludge Reception Facility