

Conder[®]

Underground Storage Tank

Case Study

NOVEMBER 2016

LOCATION

Belfast Harbour, Northern Ireland

CUSTOMER

Bouygues Energy Services

CONTRACTOR

John Sisk & Sons Contractors



Requirements:

Full Circle Generation Energy is currently in the process of developing an Energy from Waste facility at EWF Gasification Plant that will have the capacity to supply 14.85MW of electricity to power over 21,000 households in the surrounding area of Belfast.

The site, adjacent to the Bombardier wing facility within the Belfast Harbour Estate, will convert 120,000 tonnes of Refuse Derived Fuel (RDF) comprising non-recyclable fractions of commercial and industrial (C&I) waste per annum into electricity and heat.

The facility will be operational by 2017. As part of the Fire Protection plan, a solution was required which would retain any runoff from the sprinkler system in the event of a fire.

Design Target:

To install a cost effective underground tank suitable for capturing and storing a wide range of clean liquids produced from the sprinkler system in the event of a fire.

Solution:

100,000 litre horizontal GRP underground storage tank.

Additional Information:

PTA is a recognised expert in the design, manufacture and supply of GRP storage tanks. The ideal solution provided was 3.0m in diameter and 14.650m long.

Fittings with the tank included:

- 1 NO 750mm NB man access & 3.0m extension shaft
- 2 NO 100mm NB vent socket
- 1 NO 150mm NB inlet socket

