



BOHERBOY WATER SUPPLY SCHEME

24,000m³ & 17,500m³ Reservoirs, Pumping Station & 40km of pipelines

Client: South Dublin County Council

SUMMARY:

Value: €36 million

Status: Under Construction

Services Provided:

Preliminary Report, Detailed Design,

Project Management, Project Supervisor Design Phase (PSDP)

The Boherboy Water Supply Scheme will augment and extend the water supply infrastructure for much of the southern section of south dublin. It will provide low level reservoir storage at Saggart (TWL 145mAOD) and high level reservoir storage at Kiltalown (TWL 175mAOD). Water will be fed to the Saggart reservoir from a connection off the existing 1600mm diameter Dublin City Council (DCC) main from Ballymore Eustace Water Treatment Works. Water will be pumped from the new Saggart reservoir to the high level reservoir at Kiltalown via a dedicated rising main. A series of distribution mains from each reservoir will serve the area of South Dublin bounded by Athgoe to the west, Newcastle/Baldonnel to the north, Woodtown to the south and Edmondstown to the east.

The main components of the scheme are:

Reservoirs:

Saggart Site: 24,000m³ twin compartment rectangular in-situ / pre-cast reservoir, together with ancillary services and site works.

Kiltalown Site: 17,500m³ twin compartment rectangular in-situ / pre-cast reservoir, together with ancillary site works.

Pumping Station:

Saggart Site: Pumping station with duty / standby high lift pumps (40m lift 975m³/h flow) to feed the Kiltalown Reservoir and (7m lift 2305m³/h flow) duty/standby auxiliary booster pumps to ensure security of storage and supply pressure at the Saggart site.

200mm-1600mm dia. ductile iron pipelines:

- 0.1km of 1600mm watermain
- 0.4km of 700mm watermain
- 8.8km of 600mm watermain
- 4.7km of 500mm watermain
- 3.2km of 450mm watermain
- 10.1km of 400mm watermain
- 8.1km of 300mm watermain
- 3.6km of 200mm watermain

Associated Works:

Control Buildings at each reservoir site for valving control, pump control and chlorine dosing boosting system. The work currently underway includes the construction and commissioning of the Reservoir / Pumping Station structures and pipelines with associated fittings, instrumentation, connections and chambers.

