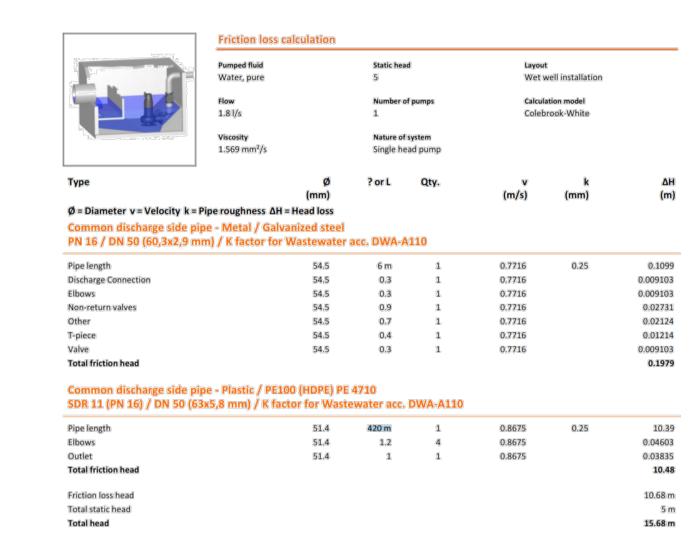
Assumptions have been made regarding the future use of pump out from foul tanks on board visiting vessels at the Deep Water Quay.

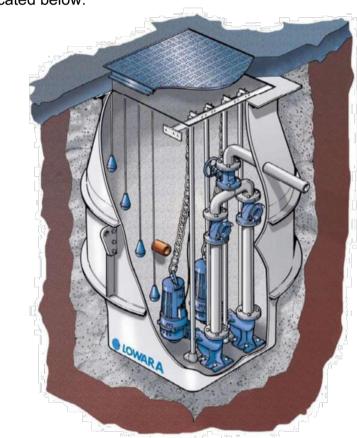
- o A dedicated foul pumping station for D.A.F.M. harbour usage has been proposed.
- This package pumping station will collect all foul at the quayside and pump it to the Údarás na Gaeltachta sewage treatment plant located to the south-east of the Deep Water Quay.
- The new rising main from the harbour is approx. 375m long and sewage is then connected into the existing gravity pipe for another 80m into the treatment plant.
- Typical maximum sewage volume from harbour/boats is predicted at 5m³ per day at a max. flow rate of 1.8 litres/sec
- o A pressure pipe of DN63 SDR 11 PN16 in PE100 (HDPE) pipe is assumed.
- A buried sump tank will have a storage volume of minimum 700 litres between a maximum invert level of +2.0mCD and invert of the incoming pipe at +4.1mCD
- Float switches will be set to initiate discharge of the sump over a small height range so that the pumps should operate approximately 2-8 times per day depending upon the incoming flow rate.
 Duty and standby pups will be provided in the package pumping station.
- According to a study carried out on passenger vessel by ocean conservancy [1], a typical vessel with passengers will produce 0.0318m³ of waste per person per day. The proposed wastewater treatment system would thus have the equivalent capacity of circa. 5 vessels of 10 persons with foul holding tank over 3 days all simultaneously dumping their foul systems in one particular day. This is considered more than sufficient for the predicted needs at Ros an Mhíl.

A specimen design for pump and rising main is shown below.



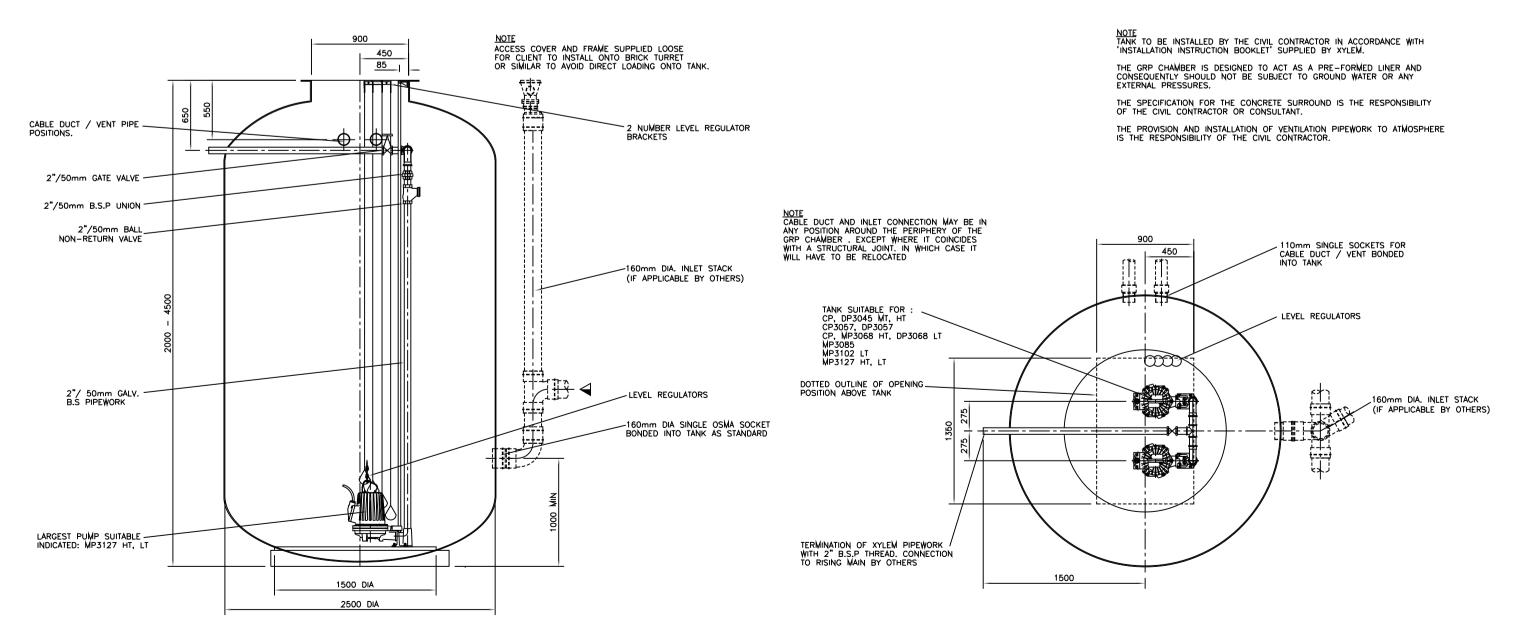


An indicative wet well chamber is as per the SPS (Southern Pumps Servicing Ltd) package pumping station as indicated below.



1500 Series

- Diameter: 1.5 metres
- Depth: 2.5 6 metres
- Tank Weight: 390kg (approx.)*
- Effective Volume: 720 litres
- Number of dwellings: up to 40**



XYLEM SPS PUMPING STATION - 1500 SERIES

DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS IN ALL CASES. VERIFY DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE DESIGNERS IMMEDIATELY.

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE DESIGNERS SPECIFICATION.

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS, BILLS OF QUANTITIES, ARCHITECTURAL, SERVICES AND ENGINEERING DRAWINGS.

- ALL LEVELS ARE IN METRES RELATED TO ORDNANCE DATUM MALIN HEAD.
- 3. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 4. DRAWINGS ARE NOT TO BE SCALED.
- 5. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE.

 21.11.25
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 JK
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 DATE
 DESCRIPTION
 BY
 APP

ROS AN MHÍL DEEP WATER QUAY

FOUL DRAINAGE DESIGN INFORMATION

FOUL DRAINAGE DESIGN INFORMATION

DEPARTMENT OF AGRICULTURE, FOOD & THE MARINE



DRAWN:		CHECKED:	APPROVED:
JK		CF	CF
PROJECT NUMBER:		DATE:	SCALE @ A1:
24984		NOVEMBER 2025	AS SHOWN
ACCEPTANCE CODE: DUBBOCE OF		- 100115	DUDDOSE CO

24984-XX-XXX-DR-MWP-CE-5417

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