

Briefing Note

Date:	13/11/2019
To:	Genesis Planning
From:	RPS (Donnla Fisher)
Regarding:	Package Pumping Station

Dear Sir(s),

Regarding the proposed SHD development at Mill Streert, Maynooth the floor plans indicate that there are 43 no. 1 bed dwellings, 70no. 2 bed dwellings and 7no. 3 bed dwellings. Occupancy rates have been assumed as:

No. of bedrooms	Occupancy rate
1bed	2
2 bed	3
3 bed	5

A daily consumption of 150l/h/day was used to determine a total flow of 1.72l/s for domestic foul flows.

The non-domestic flows are based on the number of toilet facilities, sinks and appliances in the commercial units and amounts to a total flow of 2.63l/s.

The pumping station will pass forward flows at a rate of 4.35l/s and requires a storage of 24hours of dry weather flow, which for this site equates to approximately 60m³.

RPS would recommend a package pumping station with a minimum storage of **60m³** and can forward flows at a rate of **4.25l/s**.

Attached is an extract of the Klargester Pumping Station brochure with details of a Klargester Horizontal Pumping Station, this can provide adequate storage and forward flows.

Prepared by:

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Prepared for:

Comer Property

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Klargester Horizontal Pumping Stations



If power supplies fail, Klargester horizontal pumping stations respond instantly, separating liquids and solids into a separate chamber, storing waste for up to 24 hours.

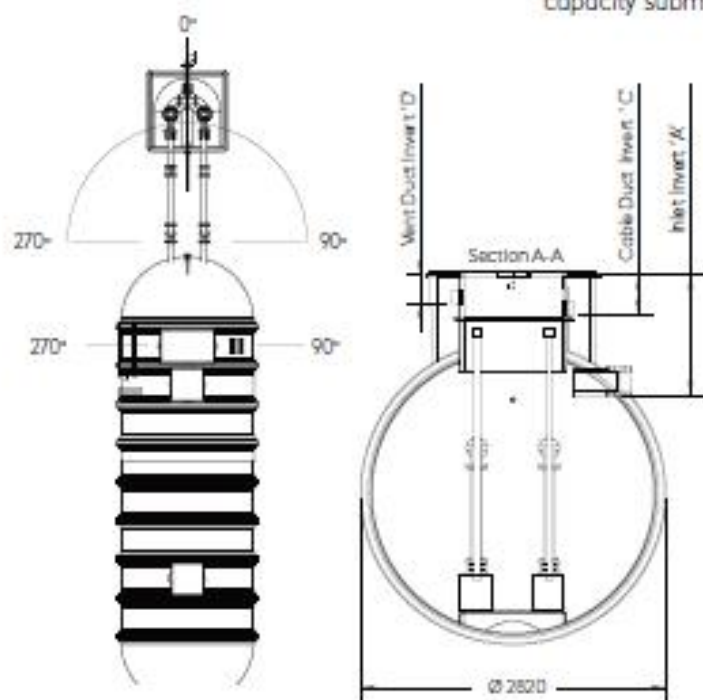
Once power is restored, the pumps will work normally again without further maintenance.

Product Benefits

- Single-tank installation up to 79m³ (multiple tank systems available).
- Multiple valve chamber location and invert options.
- Weir screen features innovative removable filters, so there's no need to access the chamber during maintenance.
- High-level alarm.
- Totally sealed system.
- One-piece tank chamber for easy installation.
- Minimal on-site assembly.
- Less crange and shallower excavation than concrete pumping stations.
- On-site Health & Safety issues are minimised - no requirement for personnel to enter the tank.
- Grundfos industrial pump for high capacity submerged installation.

Klargester horizontal pumping stations are designed as a single piece chamber with two separate sections - one for normal operation and one for emergency storage.

Typical Grundfos Industrial Pump



Technical Specification

Tank Size (mm)	Capacity (Ltrs)	Tank Material	Control Panel	Alarm	Pump Type
2,600 Diameter	18000-79000	GRP	Included	Standard	Single/Twin