



Stingray Environmental Engineering Ltd.
2 Forgehill close, Stamullen, K32VK76
Co. Meath, Ireland
T: +35316949174
M: +353857215590
Email: info@stingrayenvironmental.ie
www.stingrayenvironmental.ie

Date: 09th February 2022

c/o Joe Fallon Architectural
Ryland House
Ryland Street
Bunclody
Co. Wexford

RE: Planning permission for development @ Tig Mhuire, Old Bridge Road, Templeogue, D16, D16W6F4 -SD21B/0589 Brian and Lauren Monaghan Further Information Request dated 20/01/2022.

To Whom it may concern,

Further to the request for the additional information, issued by South Dublin County Council on the 20th of January 2022, Stingray Environmental Engineering prepared the site-specific design reports to detail:

- ✚ Stormwater Disposal system via Sustainable Drainage System Design (SuDS)
- ✚ Foul water disposal system via FPS

for a proposed development.

Additional information request-Section 2. Storm Water

The applicant is requested to submit a drawing showing that the proposed soakaway is located such

that:

- (i) At least 5m from any building, public sewer, road boundary or structure.*
- (ii) Generally, not within 3m of the boundary of the adjoining property.*
- (iii) Not in such a position that the ground below foundations is likely to be adversely affected.*
- (iv) 10m from any sewage treatment percolation area and from any watercourse/floodplain.*
- (v) Soakaway must include an overflow connection to the surface water drainage network/nearby watercourse.*



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Response:

The standard soakaway system won't be suitable for disposal of storm water on this site. The advanced Cultec Storm Water Management SuDS system has been proposed as more advanced alternative. With limited space available for installation, large impermeable area and moderate soil infiltration rates encountered, the recommended setback distance to the watercourse had to be reduced to 7.9m. Collected storm water will be polished and discharged into ground with no direct connection to waterbody, thus protecting receiving waters to the best available standard.

No overflow connection to stormwater network and/or watercourse is required.

For details, please refer to SUDS Design Report.

Additional information request-Section 3 & 4 Foul Water

It is unclear where the proposed foul water discharges from the proposed development site. The applicant is requested to submit a drawing showing existing and proposed foul water drainage layouts up to and including the point of connection to the public foul water sewer. The drawing shall include the location of all AJs, manholes, pipe size, material type and direction of flow. The drawing shall clearly show that the foul and surface water systems are discharging to separate pipe networks. Maps of the public watermains and Wastewater drainage networks may be obtained, if available, for required locations in by emailing: datarequests@water.ie.

The applicant is requested to submit a report showing design calculations for the proposed wastewater pumping station. The report shall also outline how access to the pumping station will be achieved, how maintenance will be carried out and how the pump will operate in the event of power and/or pump failure. The applicant is also requested to submit drawings showing the layout and specification of proposed pumping station. Gravity drainage systems are preferred and pumping of wastewater shall only be considered as a last resort. All design and layout details of proposed pumping station shall comply with the requirements of the Building regulations Part H-Drainage and Wastewater disposal and Irish Water's Code of Practice for Wastewater Infrastructure



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Response:

All foul water generated on site will be lifted by new foul pumping station, via 75mm rising mains into the existing Foul manhole located along Old Bridge Road.

- Service access to pump station would be via 600x600 tank opening.
- Proposed FPS 1.8m³ of total capacity, will provide minimum of 24hrs emergency capacity in case of power failure.
- Applicant is to sign annual maintenance contract with qualified service provider.
- The alarm system to be monitored daily by house occupier.

For foul design details please refer to Foul Water Network Design Report.

I look forward to hearing from you, after you have received a grant of planning permission for the project.

In the meantime, should you require any further information or have any queries in relation to the enclosed please contact me.

Yours Sincerely,

Waldemar Debowski

Waldemar Debowski

Director/Environmental Engineer

Documents attached:

- SUDS Design Report
- Foul Water Network Design Report.

