

Mr. Alan Byrne,  
Unit C8,  
Clane Business Park,  
Clane, Co. Kildare.

23<sup>th</sup> May 2022

**Re: Existing Services Capacity and Flood Risk at Coolearagh, Coill Dubh, Co. Kildare**

Dear Alan,

Please see below an overview of the both the availability and capacity of the Surface & Foul Water and Watermain services, as well as a Flood Risk analysis, in Coolearagh, Coill Dubh, Co. Kildare.

### **Surface Water Drainage**

The surface water runoff generated from any proposed developments should be discharged through a proposed attenuation system with associated flow control device and discharge to either of the following locations:

#### *Serviced Sites & Open Space/Amenity (Folio KE554468F)*

- 225mm pipe network beginning at the junction of Cois Na Mona and Church View.
- 225mm pipe network beginning at the junction of Kane's Pass and Church View.

#### *Proposed new residential zoning (Folio KE28203F)*

- 225mm pipe network at Woodlands Groove.

#### *Serviced Sites & Open Space/Amenity (Folios KE9425 & KE52741F)*

- 225mm pipe network at the roundabout of Woodland Park.

### **Foul Water Drainage**

#### *Serviced Sites & Open Space/Amenity (Folio KE554468F)*

- The existing foul network within Coolearagh discharges via gravity to a pumping station located at the junction of Kane's Pass and Church view. Irish water has advised that the pump station in its existing condition is not sufficient for any further developments in the area. Irish Water have also advised that they currently have no plans to upgrade the pumping station and any future developments will be required to fund the works.

#### *Proposed new residential zoning (Folio KE28203F)*

- Discharge via gravity to the 225mm pipe network at Church View.

#### *Serviced Sites & Open Space/Amenity (Folios KE9425 & KE52741F)*

- Discharge via gravity to the 225mm pipe network at the roundabout of Woodland Park

### Watermain

#### *Serviced Sites & Open Space/Amenity (Folio KE554468F)*

- Potable water connections for future developments are available via a watermain on Church View. The watermain diameter is 180mm HDPE south of Cois Na Mona and 75mm PVC north of Cois Na Mona.

#### *Proposed new residential zoning (Folio KE28203F)*

- Potable water connections for future developments are available via a watermain on Church View. The watermain diameter is 180mm HDPE.

#### *Serviced Sites & Open Space/Amenity (Folios KE9425 & KE52741F)*

- Potable water connections for future developments are available via a watermain on Coill Dubh street. The watermain diameter is 100mm uPVC.

### Flood Risk

According to the CFRAM mapping presented by OPW in [www.floodinfo.ie](http://www.floodinfo.ie), all the sites location are in Flood Zone C. This category is defined as an area with the lowest probability of flooding; less than 0.1% from both rivers and coastal/tidal, therefore no flood mitigation measures are necessary.

The only data available was from the general mapping interface, no detailed flood mapping was in existence. All layers were activated to assess the existence of any hazard: Fluvial Flood Extent, Coastal Flood Extent, National Indicative River Mapping, Groundwater Flood Probability and Past Flood Events. Under none of these was any risk detected.

All available maps are appended to this report.

Yours sincerely,



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Ross Lynam  
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