

Forres (River Findhorn & Pilmuir) Flood Alleviation Scheme Pilmuir

OCTOBER 2013

Scheme

- 1 Surface water gathers in this area of land and can cause flooding
- 2 Water from area 1 drains into the open channels
- 3 Under normal conditions the water flows past the pumping station. If there's too much water sensors will activate the pumps which will force the water out to the River Findhorn
- 4 The water flows to an outfall structure into the river. The structure has flap valves to prevent back flow and rock armour to reduce erosion.



- drainage channels
- water travels underground

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The Pumping Station

The pumping station will contain three pumps and be capable of discharging water at $3.3\text{m}^3/\text{s}$, enough to drain 110 Olympic size swimming pools in a day.

The pumps will be regularly tested and maintained.

750m of pipes and culverts as well as 840m of drainage channels make up this part of the scheme.