

## COMPANY CASE STUDY

Construction of a new flood attenuation pond and earthworks within Springs Field, Keswick, Cumbria.



### AT A GLANCE

**Client:** Cumbria County Council  
/VolkerWessels

**Location:** Keswick, Cumbria

**Value:** £220,000

**Duration:** 12 Weeks



### THE PROJECT:

The works involved the construction of a new flood attenuation pond within Springs field, Keswick, including the construction of earth embankments, an outlet control structure to regulate flows out of the storage area and into the Castlehead Drain.

### WORKS UNDERTAKEN:

Associated landscaping works, plus drainage improvement works to the allotment gardens to intercept and divert hillside runoff from Castlehead Wood into the Castlehead Drain, Keswick

Work scope included:

- Surface water management, installation and maintenance of a silt control system.
- Earthworks to form the basin, including production of a 3D GPS model for our earthmoving equipment.
- Construct flow control structure along with inlet and outlet headwall
- Excavate and lay drawdown pipework through allotments including cast in-situ headwall
- Form new emergency spillway
- Topsoil and seed in accordance with drawings and specification.
- Finishes to storage basin including installation of clay liner, seepage barrier and erosion protection matting.
- Construction of access track and filter drain
- Fencing and gates
- Reinstatement to original condition unless otherwise specified.

Access to site from 11th September 2019 and completed in January 2020. Programming of the works was key, with no HGV deliveries or movements allowed between 08:00 and 09:00 and 15:00 and 17:00 as per the works information dictated by Cumbria County Council.

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