

## Culvert surveys on Stock Beck

### Scheme overview

The Environment Agency has proposed a Flood Risk Management Scheme to better protect homes and businesses from flooding in the Kent Catchment and is delivering a combination of the following measures;

- **Kendal:** Construction is underway, building flood walls, earth embankments and proposed new pumping station.
- **Burnside, Staveley and Ings:** Proposed flood walls, earth embankments and local flow routing.
- **Upper Catchment:** Proposed flood storage at Kentrigg and Kentmere Tarn, and a flow routing channel on Stock Beck.
- **Complimentary measures:** Natural Flood Management and Peatland restoration in the upper catchment.



### Stock Beck culvert survey activities

We will soon be undertaking a number of culvert surveys to determine the structural integrity and conveyance capacity of the Stock Beck culverts running through areas of the North East of Kendal. These surveys will identify where we need to carry out repair and restoration works and will supplement the information we already have on the culvert conditions from previous surveys we have carried out.

#### Where will the surveys take place?

The surveys will be undertaken in a number of locations throughout the Stock Beck culvert system (shown on the map opposite).

#### Who will carry out the survey works?

Working on behalf of the Environment Agency, **Andidrain** will carry out the culvert surveys using a range of specialist vehicles and equipment.

They will use CCTV (camera) surveys to identify and log the structural condition and conveyance capacity of the culverts.

Where there are blockages within the culverts they will be removed by jetting, vacuuming or using cutting equipment. Typical blockages are tree roots and silt build up.

Alongside the culvert surveys **Atlantic Geomatics** will undertake topographic surveys. The topographic surveys will record the level and sizes of pipes and outlets along the Stock Beck culverts. These surveys will be non-intrusive land surveys.



Survey locations



Topo survey equipment

## Culvert surveys on Stock Beck

### When will the surveys take place?

Our team of specialists will **start work on the 26<sup>th</sup> July 2021 for several weeks**. Each survey will generally be undertaken quickly, taking around 1 hour in the majority of locations so impacts are expected to be minimal.

### What will we see?

Andidrain's specialist vehicles will be seen in a number of locations where we are carrying out the survey work, together with topographic survey equipment used by Atlantic Geomatics. Access locations include roads, fields and several residential and business properties.

We are informing all affected landowners where we need to undertake these surveys. Where we will be working in close proximity to properties we will let residents know beforehand.

Traffic Management measures will be in place to ensure our contractors and the public are safe whilst we access the manholes. Notices of diversion routes will be in place if required and residents in the immediate vicinity will be informed directly.



Specialist vehicle



Specialist vehicle



Inside a CCTV vehicle

### What happens next?

Once we complete the surveys we will use the information to design repair, and replacement improvements to sections of the culvert system to maximise the existing flood flow capacity and reduce flood risk. We aim to deliver these improvement works in 2022.

### Where will we find the latest information?

We will be keeping the Flood Hub up to date with information relating to the investigation works and the Flood Risk Management Scheme. For more information visit [www.thefloodhub.co.uk/upperkent](http://www.thefloodhub.co.uk/upperkent)

#### Contact us

Customer service 03708 506 506

[KendalFRMS@environment-agency.gov.uk](mailto:KendalFRMS@environment-agency.gov.uk)



#### Keep up to date

[www.thefloodhub.co.uk/upperkent](http://www.thefloodhub.co.uk/upperkent)

[@EnvAgencyNW](https://twitter.com/EnvAgencyNW) 