

## Challenge

In an Oxfordshire community, residents suspected that a building developer was providing misleading groundwater measurements of in a flood-prone area. If the groundwater exceeded a certain height, building permission would likely be denied due to the increased risk of flooding.

## Solution

By installing an OTT ecoLog 1000 and implementing continuous, accurate monitoring compliant with Environment Agency standards, the occupants were able to prove that the building company was avoiding taking measurements during and after rainfall.

## Benefits

The groundwater level was found to be too high, leading to the rejection of the planning permission and alleviating the community's flooding concerns. Underscoring the importance of continuous monitoring for decision making in communities.

## Project

A local resident contacted the OTT HydroMet team regarding a flooding issue in Standlake, a town highly prone to flooding due to the water table being very close to the surface. A building developer was tasked with measuring the water table, as exceeding certain levels would result in refusal of building permission.

However, locals noticed that measurements were taken manually and never during or after rainfall. They rented an ecoLog 1000 for their own use to measure groundwater levels in boreholes near the proposed site and were able to successfully argue against the proposal.

The residents went on to purchase the ecoLog 1000 that they initially had rented for the study to use for future use in the community, and the adjacent parish has since also purchased three units. The devices user-friendly operating system and compact design makes it simple to use for monitoring water levels and data transmission.



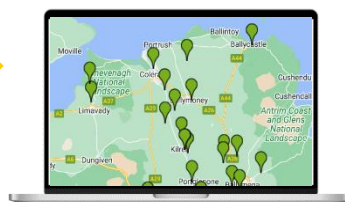
Borehole tube containing the ecoLog 1000 unit used by the Standlake residents to challenge the building development.

## Site Setup for Remote Data Access

- OTT ecolog 1000 with 15 minute measuring cadence
- 4G roaming SIM data for daily transmission
- Hydromet Cloud provides visibility to water levels at all times



## Hydromet Cloud



an OTT HydroMet brand



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