

12.06.2023

Bolton By Bowland Village Hall

Installation of a 3 Bay Broadband Cabinet – Flood Risk Assessment

Flood Risk Zone 3

A site specific flood risk assessment has been undertaken to assess the flood risk to and from the proposed installation of the 3 bay broadband cabinet.

A flood risk assessment is required as the site lies within the indicative flood risk area as detailed on the Environment Agency Flood Zone 3. It lies within the area benefiting from flood defences according to the EA flood risk map and information supplied.

Tidal/Storm Surge: Low Risk: There is no risk of flooding from the sea.

Rivers: High Risk: The main risk of flooding is Kirk Beck which runs approximately 3.50m to the east of the current building. The EA report provides historical flood data. Flooding occurred in the village in August 2004. The village hall was outside the flooded area.

Land: Surface water drains are limited to roof water. There is no history of flooding from surface water

Groundwater: No risk: The Environment Agency's Groundwater Vulnerability Zone Map indicates that the proposed development sits within an area that is designated "Medium Low". There is no aquifer vulnerable to contamination.

Reservoirs: No risk. There are no reservoirs in the area that form a risk.

Sewers: The installation a broadband cabinet will have no impact on the sewage system.

See Appendix B for EA flood hazard maps for Rivers and Seas and Surface Water.

Flood Defence Assessment

The site is protected by fluvial defences against Kirk Beck. Details of the defences with information on modelled flood scenarios is provided in the EA Flood Risk Assessment Report (FRAR) (Formerly Product 4) attached as Appendix C.

Present and Future Flood Risk

The FRAR provides details of the fluvial flood defence. The flood defence is a wall. The height of the wall is AODm86.65. Condition is shown as fair.

Flood Records The FRAR data shows that flooding occurred in Bolton-by-Bowland Village in 2004. The flooding was within the western reaches of Main Street. The Village Hall was not within the flooded area.

The village hall has never been subject to flooding.

Flood Precaution and Mitigation.

The following mitigation measures will be incorporated.

We will redesign the layout of the cabinet to minimise the risk of damage should flooding occur.

Conclusion

The site is located within Flood Risk Zone 3 with an EA level of risk of high due to the threat of river flooding of a 1 in 100 year event.

As a result additional mitigation measures have been provided. Kirk Beck benefits from fluvial defences. This risk assessment has been based on an undefended scenario. Climate change modelling data has been taken into account.

