

## HYDROLOGY AND AGRICULTURAL LAND CLASSIFICATION

### Hydrology

The site will be located within Flood Zone 1, which is at least risk of flooding. A detailed flood risk assessment and surface water drainage strategy has been undertaken to confirm where equipment can be located to ensure there is no adverse impact on local drainage systems. Solar farms do not increase run off and any impermeable areas created by the substation pad will be offset with significant betterment measures along the Stock Green Brook. As of 2021, the Environment Agency have classified solar farms as essential infrastructure to allow them to utilise wet areas. A surface water drainage design will ensure adequate surface water drainage for the solar farm using sustainable principles. Foul water disposal will not be required.



### ALC

An Agricultural Land Classification (ALC) assessment has been conducted at the site. This assessment concluded that all of the land is classed as Grade 3b - moderate quality. This means that the entire site is neither best and most versatile (BMV), excellent, very good or even good quality land for arable farming. The raised nature of the panels will allow 99% of the site to still be used for pastoral farming such as organic sheep grazing.



A flood risk assessment will be carried out, to ensure adequate drainage from the farm.