

## **Flood Risk Assessment For Pennine Canoe Club Storage, Car Park, Changing & Recreational Facility**

The proposed changing, recreational, storage and car parking is for Pennine Canoe Club and will be used as a base for the storage of all types of canoes, kayaks and equipment and their use of the adjacent river. It will provide a recreational facility for the club and nationing canoeing events.

This proposal falls within NPPF policy as a water compatible recreational activity and therefore acceptable for development in a Flood Zone 3b, i.e a functional flood plain.

The storage for canoes will comprise 4No. 20ft Containers & 1No. 30ft Container with the additional of 1No. Changing building & 1No. Recreational building. These are situated adjacent to the site's boundary wall, which forms a natural flood barrier, providing minimal obstruction to the flow of water.

The containers will each be bolted down to concrete cubes set just above ground level to allow for waterlogging and low level flooding, and for air flow to dry out the containers in the event of flooding, it is not envisaged that the containers will be air tight and this will allow for sacrificial water ingress and drainage. In the event of extreme flood conditions the containers will not float away using the proposed anchoring method.

The changing & recreational buildings will be bolted down to concrete pads, raised min 450mm above the current ground level. This allow for the building to be raised out of the flow zone and to allow floc water flows around the building, minimising any potential obstructions. In the event of extreme flood conditions the buildings will not float away using the proposed anchoring method. If the buildings are flooded during extreme events then can easily be cleaned out and repaired as necessary.

The car parking area will be finished with a layer grasscrete providing a permeable surface, resulting in no significant increase in rain / flood water run off