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Flood Risk Assessment - Statement

St Wilfrids RC College Extension

for

St Wilfrids RC College

JK-6110

September 2020

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Revision	Date of issue	Comments	Prepared By	Checked By
0	30.09.20	First Issue	KR	DH

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Introduction

This statement identifies flooding or surface water management issues relating to the existing college building and the proposed extension. This statement is intended to provide a summary of the key flood risk information and is not formatted to provide the level of detail that would typically be presented in a comprehensive flood risk assessment and drainage strategy report.

Site Location

The proposed development is located off Temple Park Road, South Shields, Tyne and Wear NE34 0QA. It sits within a mostly residential area.

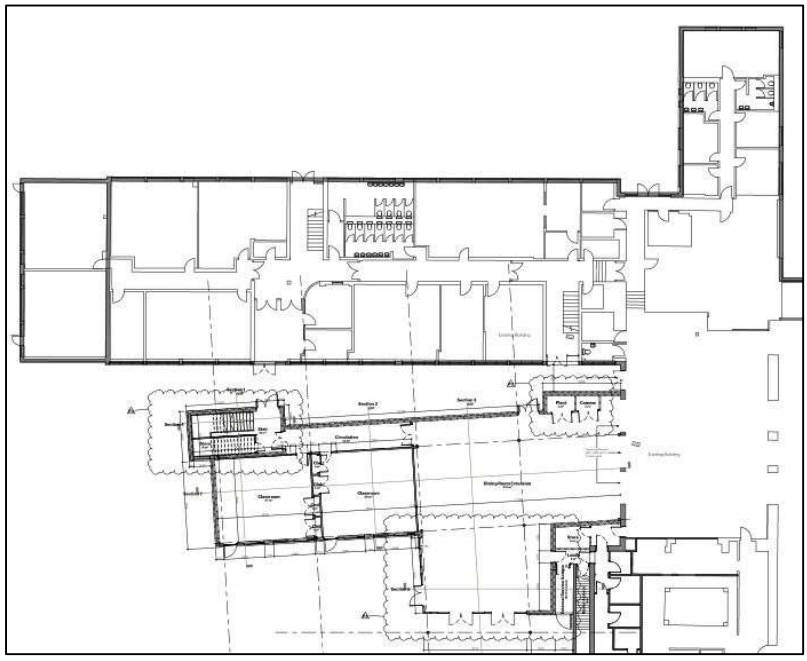
The site is centred on National Grid Reference 436666mE, 564676mN and covers an area of approximately 2.10 hectares (excluding associated sports/amenity areas).

Nearby water features include the following:-

- River Tyne (Main River) - approximately 1.75km to the north of the site.
- River Don (Main River) - approximately 2.6km to the south of the site.

The Proposed Development

The proposed development consists of a 2 storey extension to the existing college building which will provide a new dining space, additional classrooms and toilets.

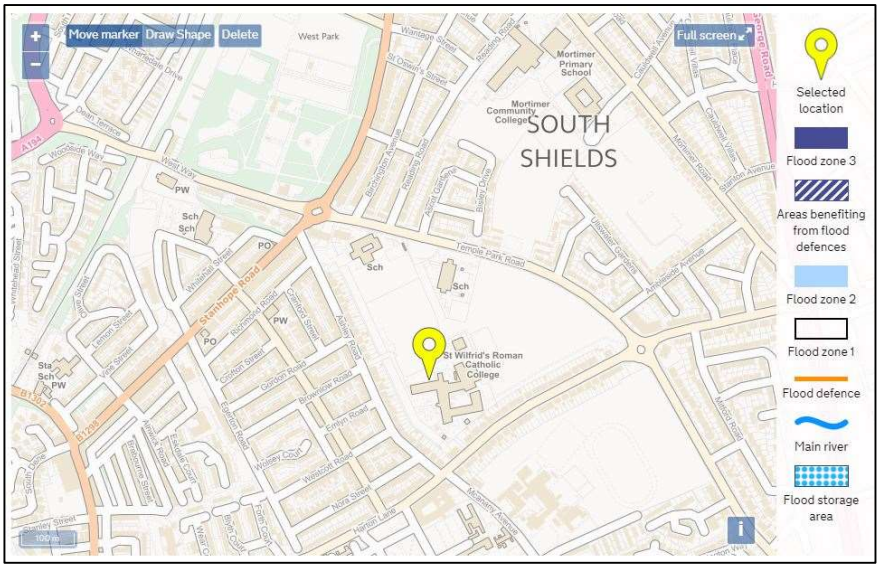


Proposed Site Layout – Space Architects

Fluvial and Tidal Flood Risk

The flood maps for planning provided by the EA indicate the extent of the extreme flooding from surface water, rivers or the sea and reservoirs that would occur without the presence of flood defences. The maps indicate that the site is **entirely within Flood Zone 1**.

The Flood Maps are based upon the approximate extent of floods with a Flood Zone 2 having between a 1% and 0.1% annual probability of flooding from rivers or between 0.5% and 0.1% annual probability of flooding from the sea and tidal rivers in any year. Flood Zone 3 has a greater than 1% annual probability of flooding from rivers and greater than 0.5% annual probability of flooding from the sea and tidal rivers under present expectations, or where this is greater, the extent of the highest known flood. It should be noted that the flood map areas assume no defences and does not consider the likelihood that flood risk will be increased by climatic change.

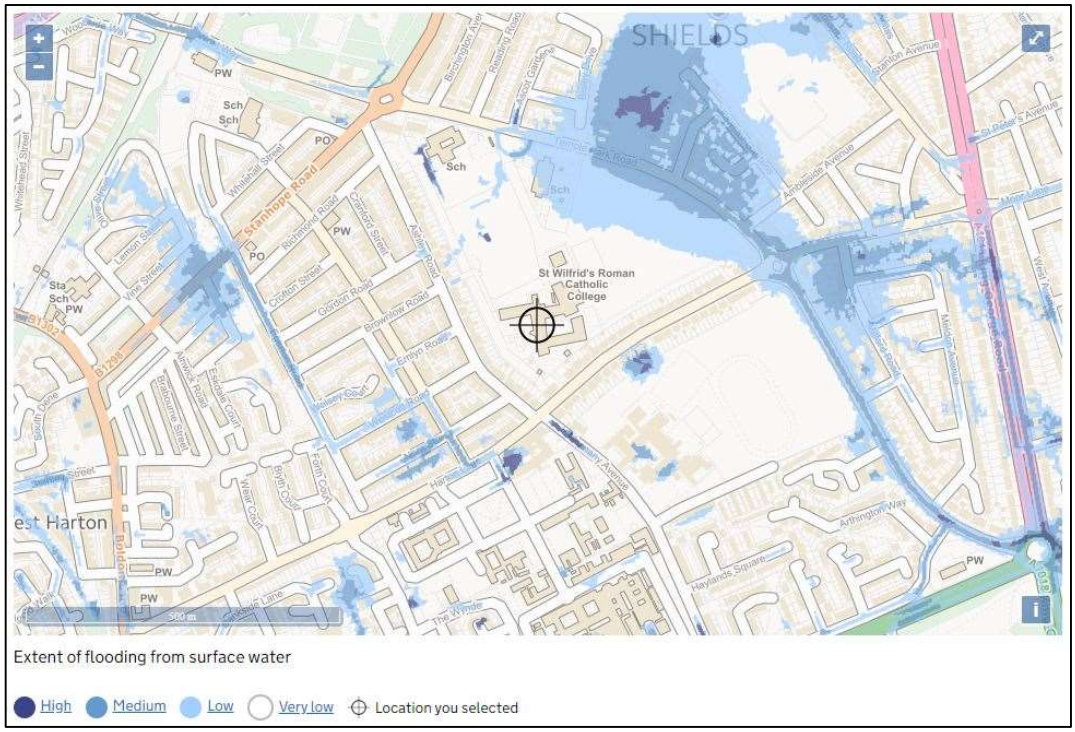


Flood Risk Zones (Fluvial and Tidal) – EA

Surface Water Flood Risk

The plan below is an extract from the EA surface water flood risk map which shows that there are no areas within the site that are currently identified as being at risk from surface water flooding.

The EA flood plans represent the best available current information on the extent of flood risk. However, it should be noted, that these maps are indicative only, and are to be used as a basis of consultation and not as the sole basis for decisions on where planning policies apply.



Surface Water Flood Risk - EA

The way in which the Environment Agency categorises is summarised in the table below:-

High	Flooding occurring as a result of rainfall with a greater than 1 in 30 chance in any given year (annual probability of flooding 3.3%)
Medium	Flooding occurring as a result of rainfall of between 1 in 100 (1%) and 1 in 30 (3.3%) chance in any given year
Low	Flooding occurring as a result of rainfall of between 1 in 1000 (0.1%) and 1 in 100 (1%) chance in any given year
Very Low	Flooding occurring as a result of rainfall with less than 1 in 1000 (0.1%) chance in any given year

Surface Water Flood Risk Zone Definitions - EA

Surface water flood maps use LIDAR information to identify low areas of topography where surface water can become trapped.

Existing Drainage

The existing below ground drainage serving the college building comprises a network of pipes for the conveyance of surface water, foul water and combined flows. It should be noted that the existing network appears to have been subject to a number of modifications in response to previous building extensions. The network exits the site to the as a 150mm diameter combined drain.

NOTE: The network appears to be severely constrained in relation to pipe capacity and may be at risk of frequent surcharge and/or flooding under storm conditions.

Statement Conditions

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All work carried out in preparing this statement has utilised and is based upon Jasper Kerr Consulting Engineers Ltd professional knowledge and understanding of current UK standards and codes, technology and legislation. Changes in this legislation and guidance may occur at any time in the future and cause any conclusions to become inappropriate or incorrect.

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