**Discover Brightwater habitat improvement works River Skerne,**

**Fishburn to Holdforth Bridge.**



The section of the River Skerne planned for habitat improvement works, is located to the north of Sedgefield. The section of river is located between the A177 from NGR: NZ 34723 31378 upstream to the B1278 salters lane at NGR: NZ 36144 31363.



The River along this section has been modified historically through being straightened and engineered. Habitat diversity is generally poor with lack of in-river features, flow dynamics poor bed substrate being heavily silted in areas and heavily over shaded.

**Proposed works. See map and attached spread sheet for locations..**

There are a number of suitable interventions to help to improve the river through this section, these are:

* Introduction of flow deflectors.

To be constructed from sections of timber sourced on site cut to length and anchored in place using re bar anchor pins, ( as previously used on other sections of the Skerne). Either installed in pairs or in a staggered pattern through listed sections. Design as per river restoration manual.

* Introduction of large woody debris, anchored and pinned as required.

Utilising trees growing over and alongside the river for material.

* Canopy thinning section is heavily over shaded and would benefit from a canopy thin.
* Re profiling of sections of bank , big sections of the river are very incised with steep bank faces, re- profiling to a more gentle slope <45’ / marginal shelf formation.

Map shown below, attached spread sheet shows detail.

9

8

7

6

5

4

3

2

1

