


### Ecological Constraints Assessment

<b>Site Name</b>	Dockfield Road		
<b>Structure</b>	CSO under bridge invert		
<b>Watercourse</b>	Bradford Beck		
<b>Grid Reference</b>	SE 15114 37866		
<b>Visit Date</b>	29/07/20	<b>Visit Conditions</b>	Dry, clear
<b>Surveyor</b>	Neil Wilkinson		
<b>Designations</b>	No sites within 1km. Trench Meadows SSSI 1.9km from site. Leeds-Liverpool Canal local wildlife site.		
<b>Works</b>	Initial investigation works to determine the potential location of the pipe leak. <ul style="list-style-type: none"> <li>- Vegetation clearance</li> <li>- Excavator stone platform on bank</li> <li>- Use tonne bags to deflect &gt;50% of flow to allow inspection</li> </ul> Secondary works likely to include cofferdam around the working area, excavation to the pipe, and conducting a repair.		
<b>Site Description</b>	The access route is through a brownfield site which has been colonised by a mixture of rural and woodland species. Half of the site has recently been scraped clear.		
<b>Interest Feature</b>	<b>Records/Observed/ Potential Presence</b>	<b>Likely Impact/Risk</b>	<b>Further Survey/ Avoidance Measures</b>
<b>Sensitivity to water pollution</b>	Bradford Beck flows into the River Aire approximately 70m downstream of the site.	Site investigation works pose a low risk. However, there are unknown risks associated to the CSO issue, when reducing the flows.  For the main repair works the nature of the issue and likely required works mean the risk of polluting the water course is high.	Site investigation – low risk if completed at lower river flows and during dry weather as CSO unlikely to activate. Site to have the ECoW contact details.  Main works – ECoW/ACoW on site conducting water quality monitoring. Pollution management plan should be produced.
<b>Fish &amp; Crayfish</b>	Records of Brown trout within the watercourse.  No records of crayfish in the area.	Site investigation works pose very little physical risk to aquatic species. In channel works will be undertaken manually.  Main works – will include the use of a cofferdam and possible excavation works. A fish rescue should be undertaken before the cofferdam is installed and within it once sealed.	Site investigation – if no change to current methods no fish rescue is required.  Main works – Fish rescue will be required to remove fish from the working area. Fish team to check for presence of crayfish during the rescue.
<b>Mammals</b>	Records of pipistrelle and Daubenton's bats. No other records near site.  No signs of otter, badger or water vole found on site.	Low risk of disturbing mammals.	No further actions.  Good practice – if any excavations will be left open over night, a ramp should be installed.

<b>Birds</b>	<p>Records of passerines on and near site.</p> <p>House sparrows observed in willow near access gate.</p> <p>Kingfisher observed flying along the water course.</p> <p>No nesting behaviour observed on site.</p>	Risk of disturbing late brood nesting birds in vegetation.	Supervision during the vegetation clearance.
<b>Amphibians &amp; Reptiles</b>	No records near site	No observations on site.	No actions required
<b>Plants &amp; Habitats</b>	<p>Site consists of bare ground, tall ruderal herb, and immature broadleaf trees.</p> <p>Saplings species include – Oak, sycamore, willow, birch.</p> <p>Buddleia, willowherb, bramble, ornamental plants, Yorkshire fog and common bent. Himalayan balsam.</p>	<p>A small area of the site will be cleared to create access to the riverbank. Some loss of bankside trees will occur. The site is currently being cleared by the landowner.</p>	<p>Vegetation clearance should be supervised to ensure INNS are managed appropriately.</p> <p>The minimum number of trees should be removed and wherever possible coppiced instead.</p>
<b>Invasive Species</b>	<p>Records of Himalayan balsam and Japanese knotweed upstream of the site.</p> <p>H.balsam on site and on the access route.</p>	Risk of spreading INNS to other sites or other areas of the current site.	<p>H.balsam on the access route to be cut or snapped between the roots and first node.</p> <p>Removed balsam to be stored in area approved by ECoW.</p> <p>All plant and boots to be scraped clean before leaving site.</p> <p>Cabins to be located on existing areas of hard standing away from the water course and the patches of H. balsam.</p> <p>Measures to be integrated into the site's method statement.</p>

<b>Additional Notes</b>	
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<b>Recommendations</b>
Site investigation – Input to method statement regarding INNS procedures and ecological constraints
Site investigation – Supervision of vegetation removal.
Main works – ECoW/ACoW present to monitor water quality.
Main works – Fish rescue of the working area.
<b>Main works recommendations to be updated once a scope of required works is confirmed. This report should be updated if the works require additional areas of land or are larger in scale than the initial site investigation works.</b>