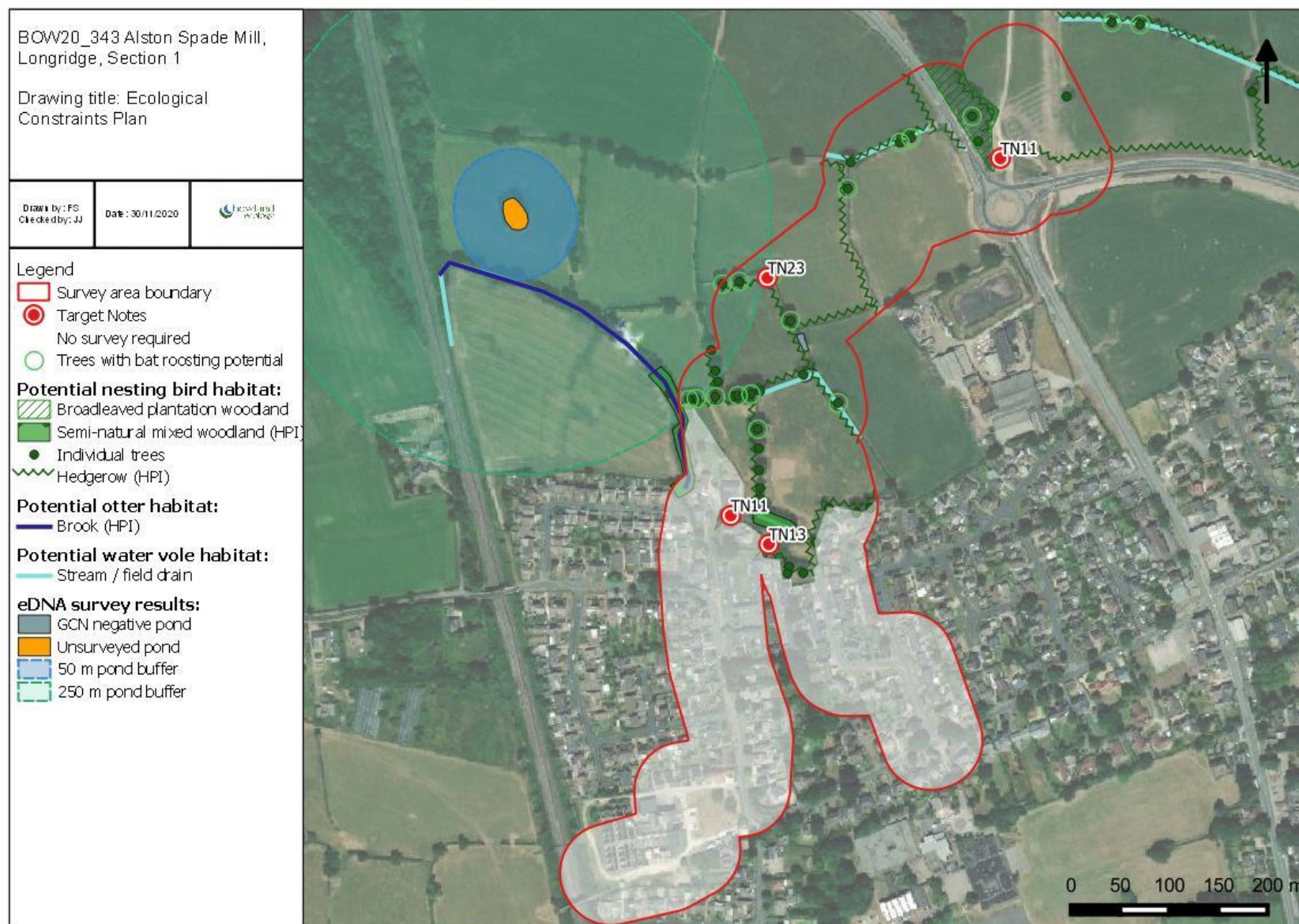
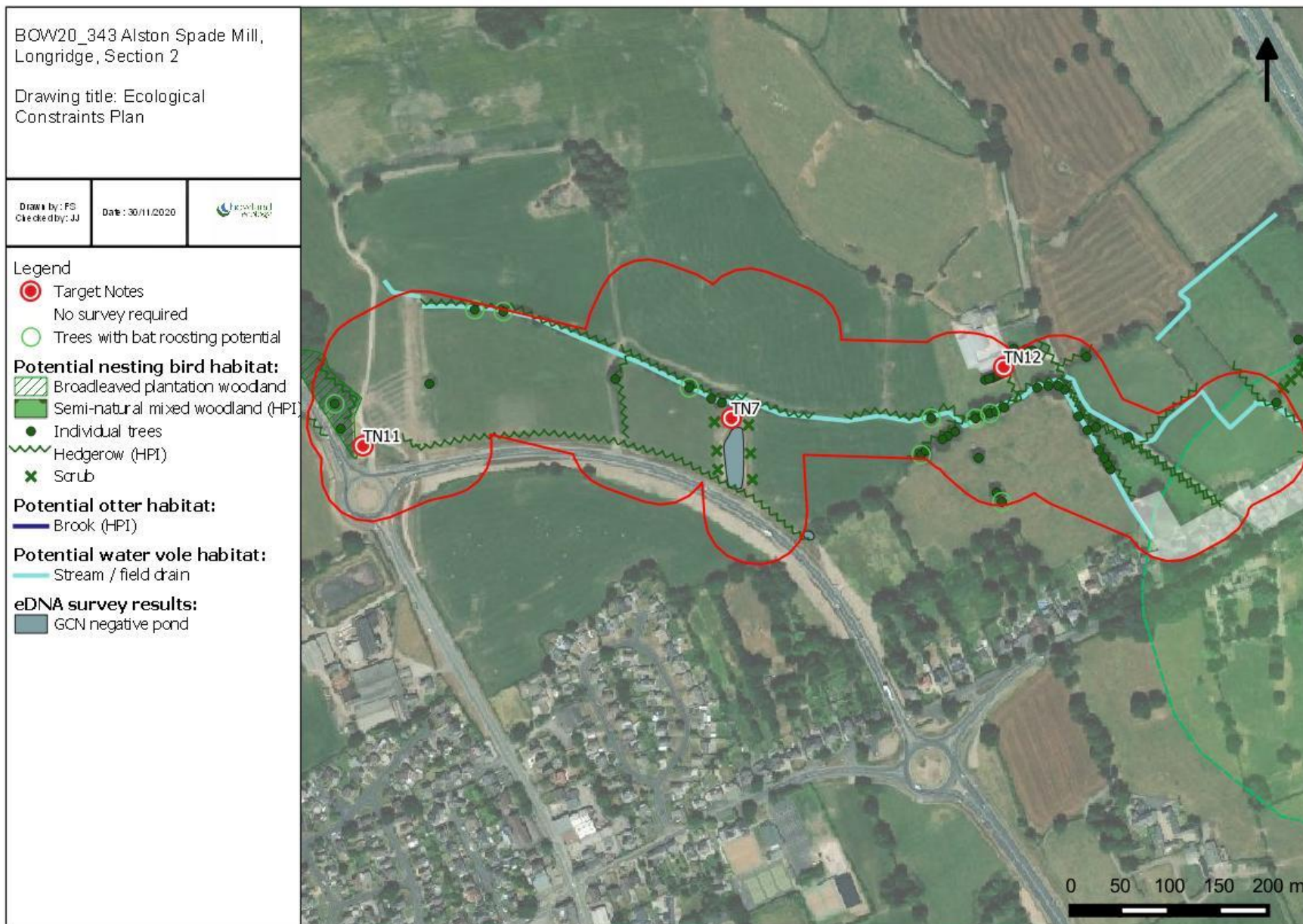
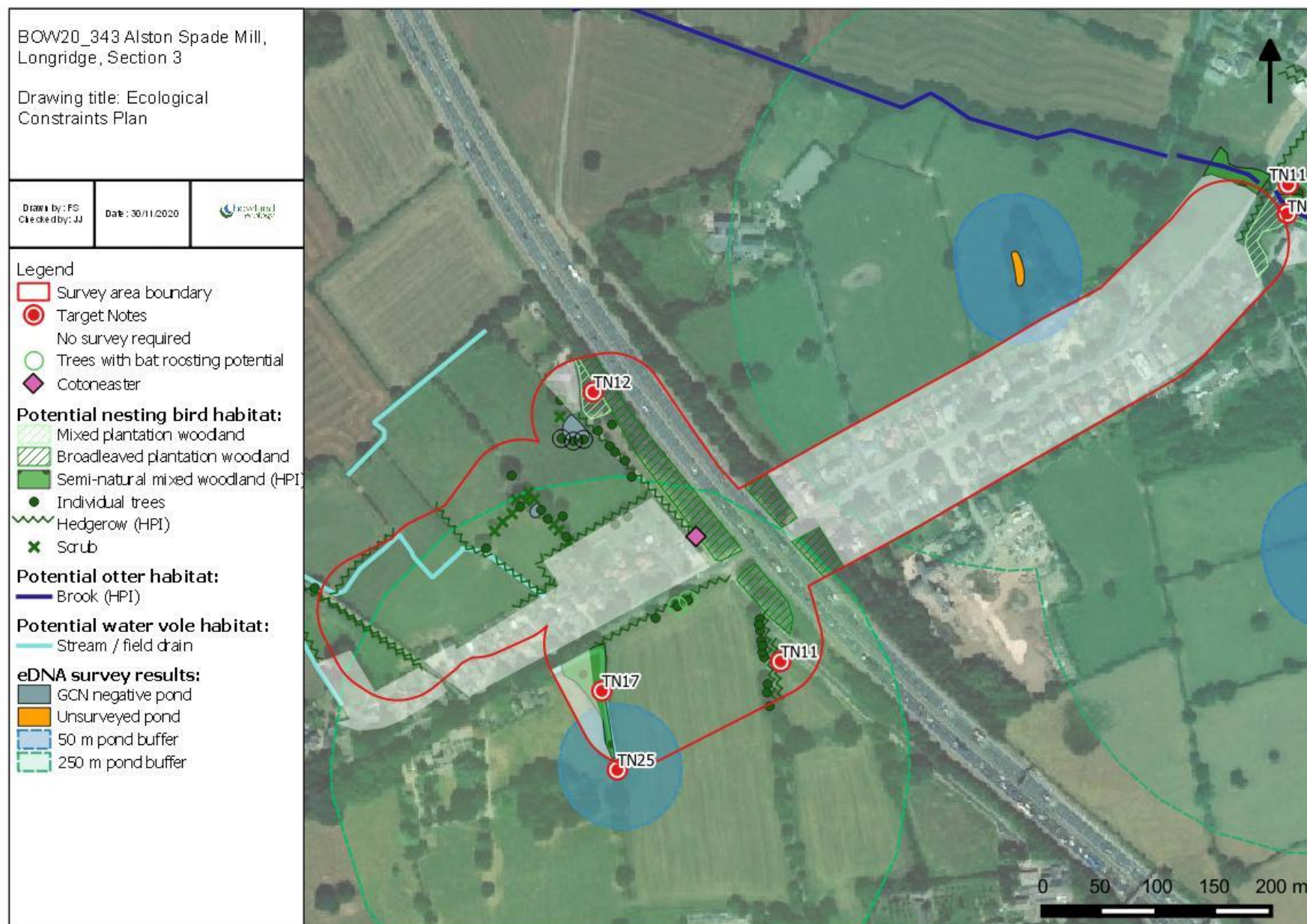
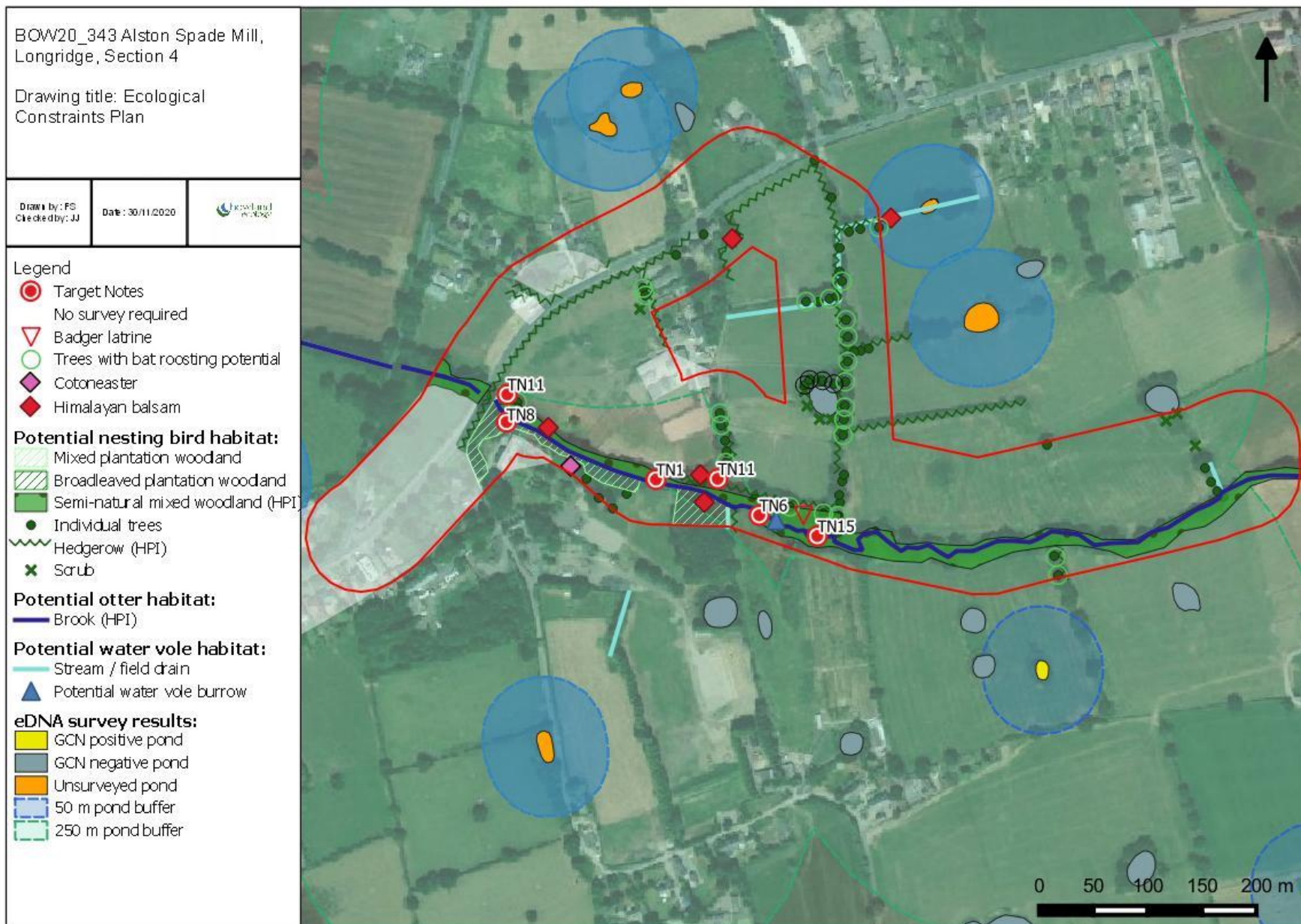


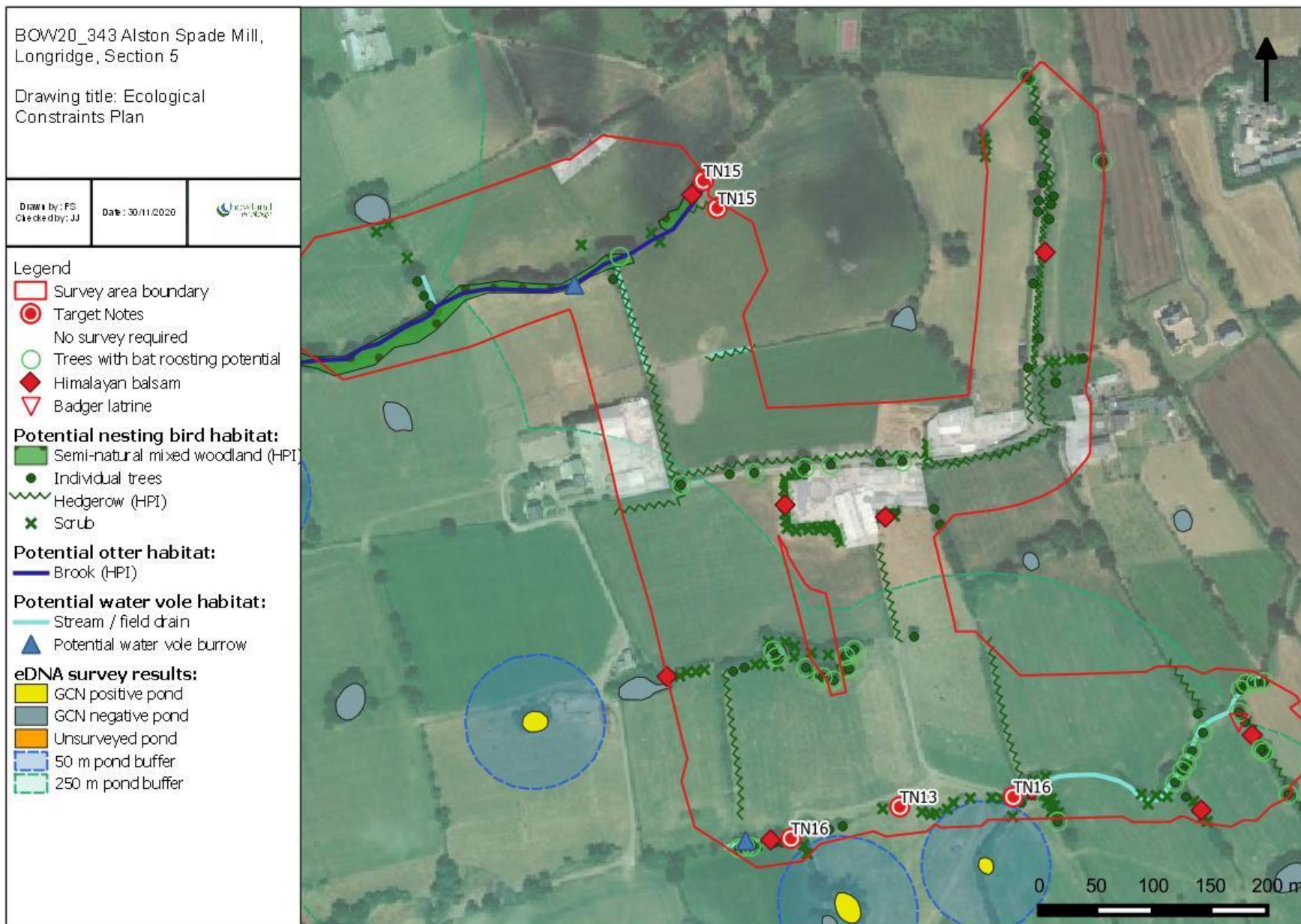
Ecological Constraints Plan – Alston/Spade Mill Pipeline



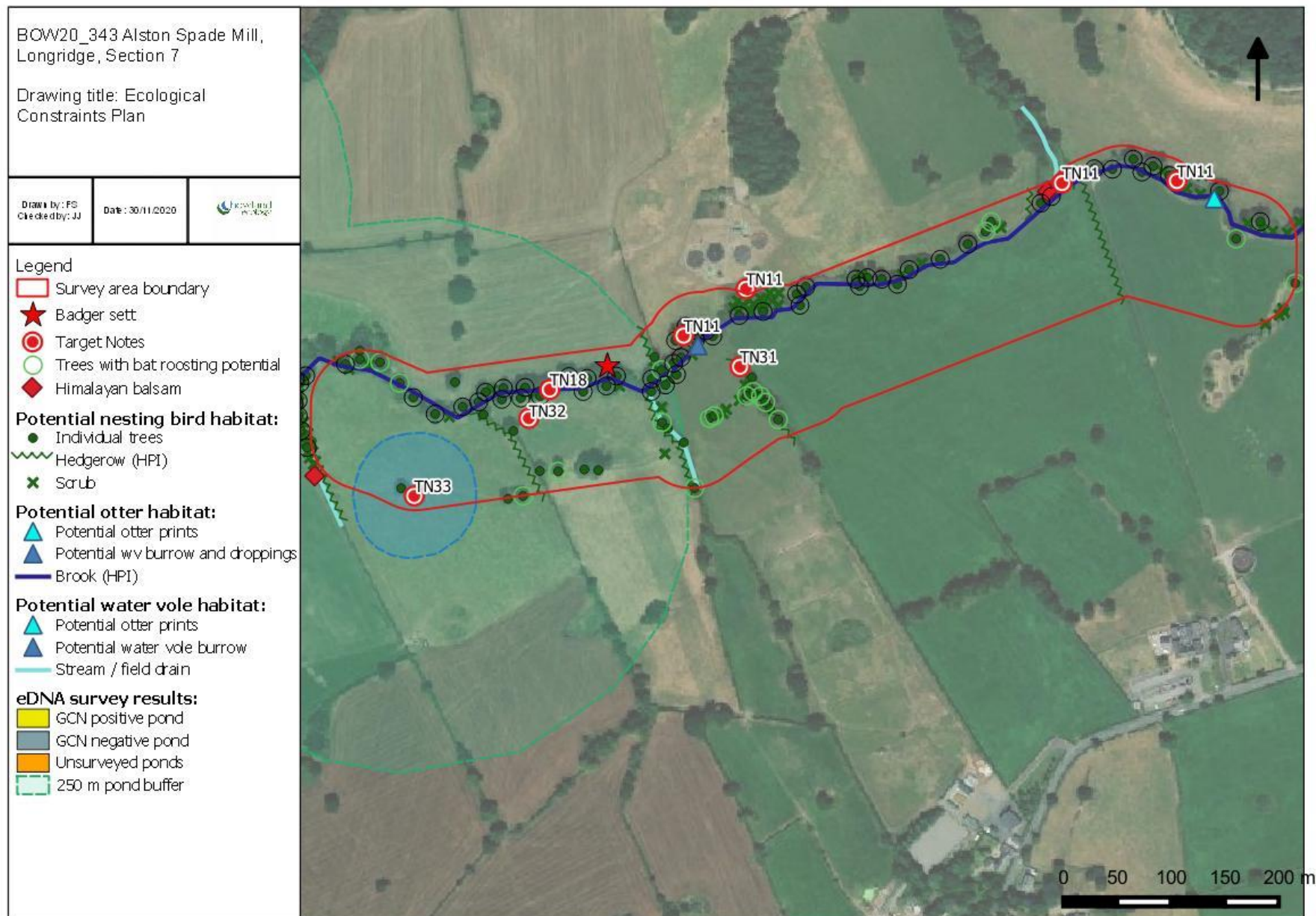


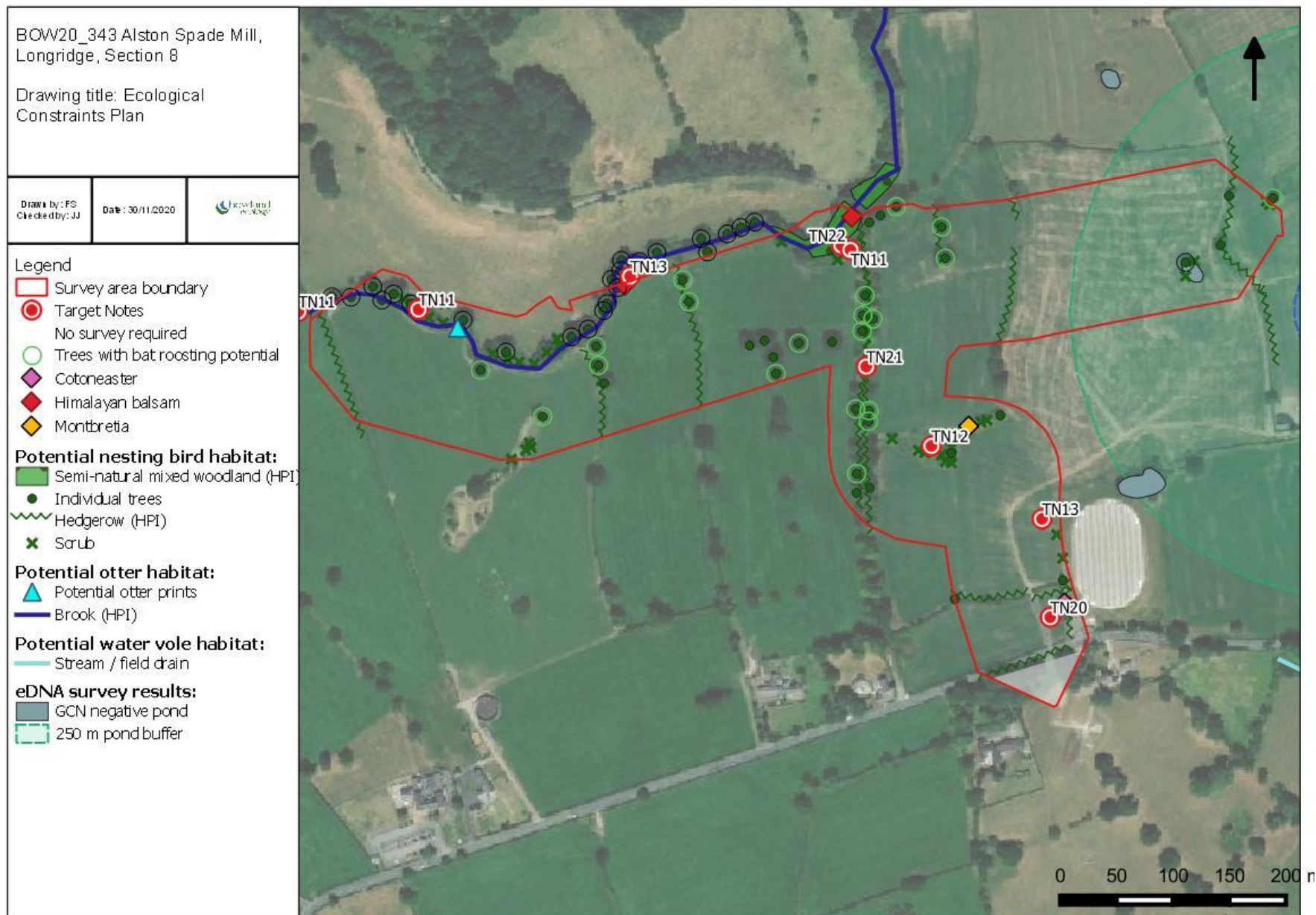


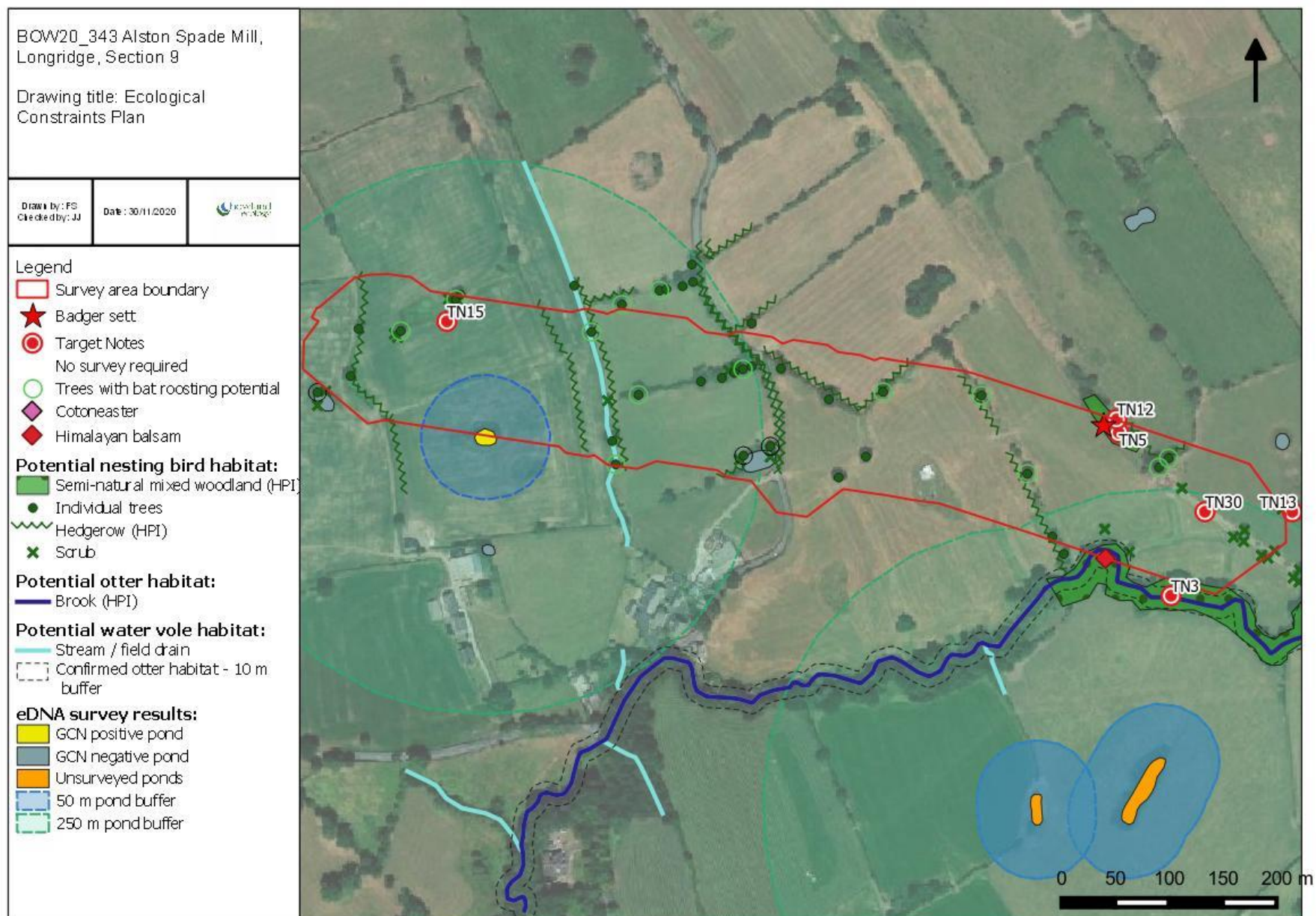


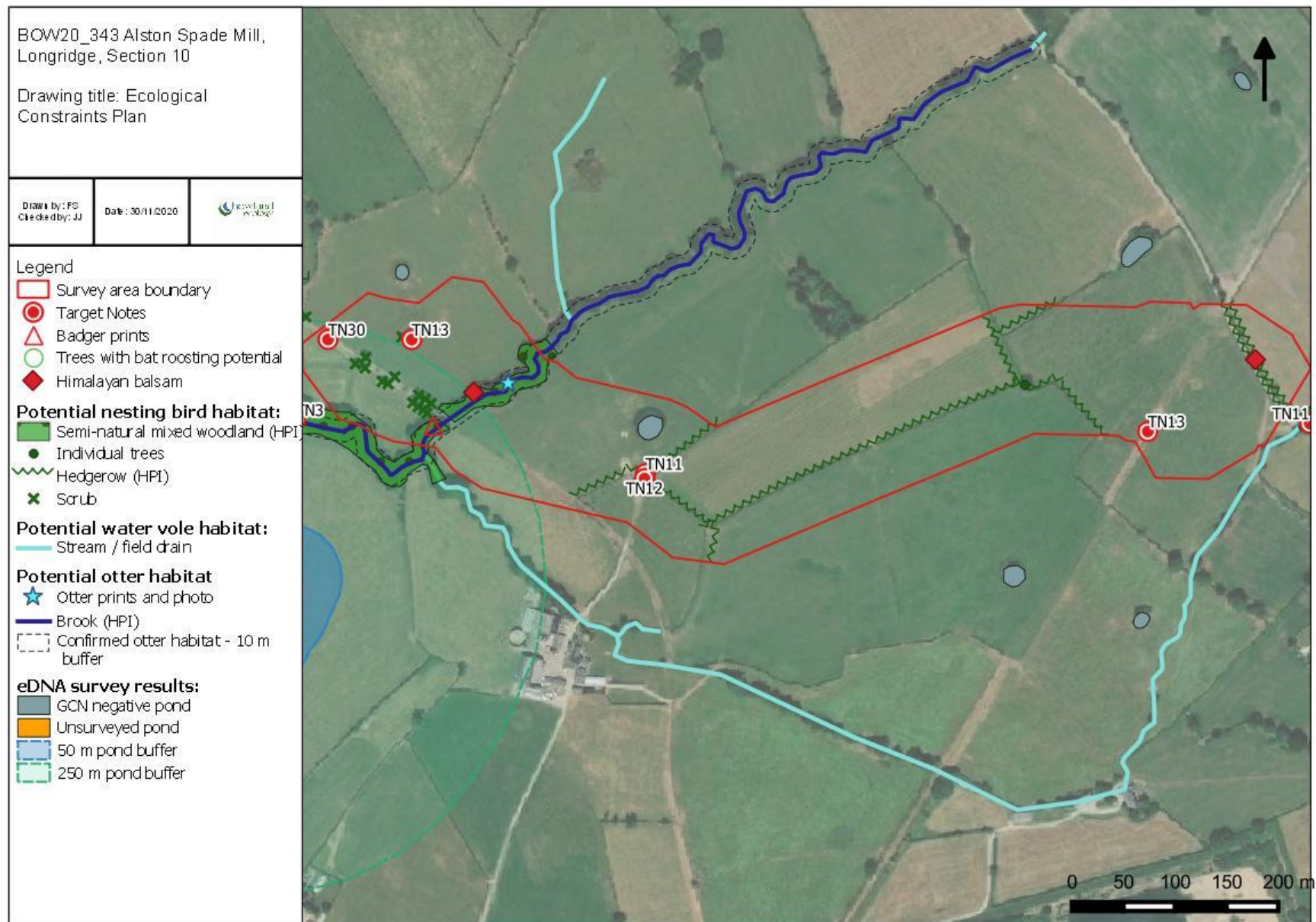


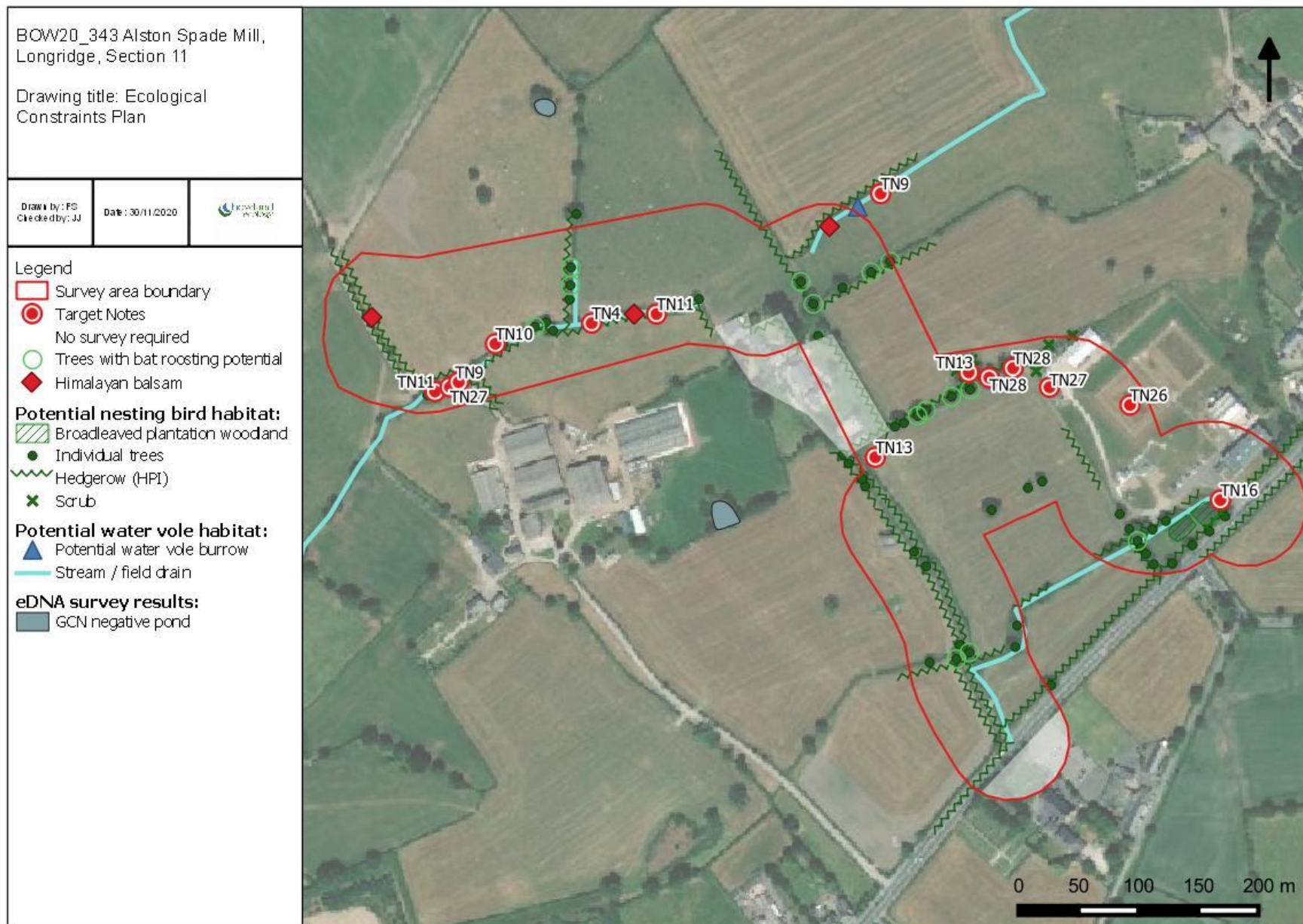












Target Notes – Ecological Constraints Plan

No	Description	Photograph
1	An extension of Dean Brook, running through Sections 4 & 5 of the survey area and situated within in a wooded clough. <i>Potential suitable habitat for otter, water vole, badgers, roosting bats and nesting birds. Also a Habitat of Principal Importance (HPI).</i>	
2	A section of Blundel Brook which runs through Sections 6, 7 & 8 of the survey area. In Section 6 it is situated between improved fields with only some scattered trees and scrub along its banks, which are dominated by grasses and tall ruderal vegetation. In Sections 7 and 8, semi-mature and mature trees continuously grow along at least one bank of the watercourse and willow scrub is present within the brook in several sections. <i>Potential suitable habitat for otter, water vole, roosting bats and nesting birds. Also a Habitat of Principal Importance (HPI).</i>	

3	Savick Brook is situated in Section 10 of the route, within a narrow wooded clough. <i>Confirmed suitable habitat for otter and badger (prints of both species found as well as a photo of an otter)</i> <i>Potential suitable habitat for water vole, roosting bats and nesting birds. Also a Habitat of Principal Importance (HPI).</i>	
4	A tributary of Savick Brook also extends into Section 11. This section is located in a deep ditch running along hedgerows and passes adjacent to an access road and improved fields. <i>Potential suitable habitat for water vole, badgers and nesting birds.</i>	 
5	A wooded marshy depression dominated by willow in Section 9. <i>Confirmed suitable habitat for badgers (outlier sett found, potentially inactive)</i> <i>Potential suitable habitat for nesting birds, roosting bats and common amphibians.</i>	

6	A hedgehog was recorded during the trail camera survey along the banks of the brook in Section 4.	
7	Small field containing large pond surrounded by semi-improved grassland with moderate botanical diversity. Newly planted hedgerow delineates fences. <i>Potential suitable habitat for amphibians, nesting birds, small mammals and invertebrates.</i>	
8	An old, disused badger sett along the banks of the brook in Section 4	n/a
9	Droppings of a consistent size and shape to water vole located adjacent to brooks / streams (not confirmed due to similarity to other mammal droppings).	
10	Small mammal prints which are potentially associated with water vole (but could be rat)	

		
11	Small areas of tall ruderal vegetation throughout the survey area. <i>Suitable terrestrial habitat for amphibians</i>	 
12	Piles of dead wood, brash or rubble <i>Potential hibernacula for common amphibians and small mammals including hedgehog.</i>	

13	Small areas of marshy grassland throughout the survey area <i>Suitable terrestrial habitat for common amphibians</i>	
14	Sand martin burrows in the banks of a brook in Section 6	
15	Small mammal prints observed along watercourses throughout the survey area which are unlikely associated with otter, water vole or badger.	n/a
16	Culverted section of the watercourse.	n/a
17	Small stand of woodland to the south of Whittingham Lane. <i>Potential suitable habitat for roosting bats, nesting birds, badgers and small mammals including hedgehog.</i>	
18	Kingfisher observed flying along Blundel Brook in Section 7.	n/a

19	Blundel Brook within Sections 7 & 8 - trees are continuously present along the brook but the understorey is very open, dominated by improved grassland or tall ruderal vegetation, and overall forms a narrow, exposed vegetated corridor <i>Potential suitable commuting habitat for otter and water vole. Potential nesting bird habitat.</i>	
20	Pile of manure on arable field, adjacent to hedgerow. <i>Potential suitable terrestrial habitat for common amphibians</i>	
21	Disused road / track between two hedgerows with scattered trees. Tall ruderal, semi-improved grassland and scrub now fully established on top of old track. <i>Potential suitable habitat for roosting bats, foraging / commuting bats, nesting birds and small mammals including hedgehog.</i>	
22	Nest box on tree <i>Suitable habitat for nesting birds</i>	n/a
23	Flooded corner of field in a depression. Potential pond, unsurveyed during eDNA surveys, but limited GCN potential as very small shallow pool of water even after recent heavy rain and likely dries frequently. No further GCN survey required. <i>Potential suitable habitat for common amphibians.</i>	

24	Previously unmapped pond in Section 6. Situated within a depression in an improved grassland field. Hawthorn scrub and mature alder surrounding the pond and emergent soft rush, reeds, duckweed are present. <i>Potential suitable habitat for amphibians including great crested newt – previously unsurveyed (during eDNA surveys).</i>	
25	Previously unmapped pond in Section 3. Small pond in improved grassland field, adjacent to woodland with overhanging alder. Tall ruderal vegetation dominated by nettle creates a 2 m vegetation buffer around the edge of the pond, with comfrey and soft rush also present. Poor water quality and approximately 70% shaded. <i>Potential suitable habitat for amphibians including great crested newt – previously unsurveyed (during eDNA surveys).</i>	
26	Disused filter bed on a mound. Dominated by semi-improved grassland, contained within stone walls. <i>Potential suitable habitat for nesting birds</i>	

27	Piles of pipes and material storage on bare ground. <i>Potential hibernacula for small mammals including hedgehog.</i>	
28	Bat box(es) on tree.	n/a
29	Frog observed within tall ruderal in Section 11.	n/a
30	Disused railway on small embankment. Dominated by semi-improved grassland, with scattered hawthorn scrub. <i>Potential suitable habitat for nesting birds.</i>	
31	Badger hairs and a push-through were recorded beneath the scrub / hedge in Section 7.	
32	Brown hare sighted crossing improved grassland fields and watercourse in Section 7.	n/a

33	Previously unmapped pond in Section 7. Small pond in improved grassland field, likely dries into a small pond. Only minor marginal soft rush vegetation present and a single alder tree. <i>Potential suitable habitat for amphibians including great crested newt – previously unsurveyed (during eDNA surveys).</i>	
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