

Appendix 8-1 Habitat survey target notes

Application site

1 Amenity grassland / scattered trees

Close-mown amenity grassland, with small trees including Japanese cherry (*Prunus cerasus*) and a single mock-orange (*Amelanchier sp.*) shrub.

The lawn is dominated by fine grass species, with abundant red fescue (*Festuca rubra*), and frequent crested dog's-tail (*Cynosurus cristatus*), rough meadow-grass (*Poa trivialis*) and common bent (*Agrostis capillaris*). Herbs include frequent self-heal (*Prunella vulgaris*), black medick (*Medicago lupulina*), field forget-me-not (*Myosotis arvensis*) and white clover (*Trifolium repens*).

2 Neutral grassland / tall ruderal / scattered trees

Mature beech (*Fagus sylvatica*) and 3 mature ash (*Fraxinus excelsior*) trees with a tall-herb fringe grading to neutral grassland.

Grasses include Yorkshire fog (*Holcus lanatus*), false oat-grass (*Arrhenatherum elatius*), rough meadow-grass (*Poa trivialis*), rat's-tail fescue (*Vulpia myuros*), creeping bent (*Agrostis stolonifera*) and soft-brome (*Bromus hordaceus*). The wide range of herbs includes ragwort (*Senecio jacobaea*), great willowherb (*Epilobium hirsutum*), cow parsley (*Anthriscus sylvestris*), hemlock (*Conium maculatum*) and water figwort (*Scrophularia auriculata*).

3 Tall ruderal

Tall-herb dominated bund with abundant stinging nettle (*Urtica dioica*), hemlock and great willowherb. Other species include welved thistle (*Carduus acanthoides*), weld (*Reseda luteola*) and bristly ox-tongue (*Picris echioides*).

4 Ephemeral / short perennial vegetation

Bare concrete with interstitial areas of vegetation, and areas of short, sparse vegetation developed on thin soils.

Grasses include Yorkshire fog, rat's-tail fescue, creeping bent and rough meadow-grass. The wide variety of herbs includes weld, water figwort, common stork's-bill (*Erodium cicutarium*), little mouse-ear (*Cerastium semidecandrum*), common centaury (*Centaureum erythraea*), common mallow (*Malva sylvestris*), biting stonecrop (*Sedum acre*), mouse-ear hawkweed (*Pilosella officinalis*), great lettuce (*Lactuca virosa*) and ploughman's spikenard (*Inula conyza*).

5 Swamp / tall ruderal

Emergent vegetation of ditch includes abundant bulrush (*Typha latifolia*) and common water-starwort (*Callitriche stagnalis*); locally abundant creeping bent, creeping buttercup

(*Ranunculus repens*) and celery-leaved buttercup (*Ranunculus sceleratus*); frequent water figwort; and occasional field horsetail (*Equisetum arvense*) and great willowherb.

The banks are dominated by stinging nettle, with hemlock, welshed thistle, ground-ivy (*Glechoma hederacea*), hedge bindweed (*Calystegia sepium*) and hemlock.

6 Neutral grassland / ephemeral – short perennial vegetation

Short, heavily rabbit-grazed grassland, grading into ephemeral – short perennial vegetation. Grasses include abundant Yorkshire fog and creeping bent, with occasional annual meadow-grass (*Poa annua*). Herbs include abundant daisy (*Bellis perennis*), self-heal, water figwort and ground-ivy, with frequent ragwort, occasional smooth hawk's-beard (*Crepis capillaris*) and rare yellow-wort (*Blackstonia perfoliata*). The moss *Calliergonella cuspidata* is abundant.

This area to the north of the factory is bounded by a tall hawthorn (*Crataegus monogyna*) and elder (*Sambucus nigra*) hedge, with dog rose (*Rosa canina*) and tall herbs including water figwort and rosebay willowherb (*Chamerion angustifolium*).

7 Tall ruderal / scattered scrub

Stinging nettle- dominated tall-herb vegetation on an elevated area in the north-east of the site, interspersed with scattered elder scrub. False oat-grass becomes more abundant further east. Additional species include frequent hogweed (*Heracleum sphondylium*), cleavers (*Galium aparine*), great willowherb and ground-ivy.

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8 Inundation community

Very shallow standing water, vegetated with rushes and grasses, including abundant creeping bent and soft rush (*Juncus effusus*); creeping buttercup (*Ranunculus repens*) is also abundant. Other species include rough meadow-grass, couch (*Elytrigia repens*), jointed rush (*Juncus articulatus*), broad-leaved dock (*Rumex obtusifolius*) and curled dock (*Rumex crispus*).

9 Swamp

Diffuse area of standing water defined by abundant common reed (*Phragmites australis*); other species include locally frequent bulrush (*Typha latifolia*) and common spike-rush (*Eleocharis palustris*). Reed canary-grass (*Phalaris arundinacea*) is locally dominant at the margins; other species include frequent hard rush (*Juncus inflexus*), with locally frequent great willowherb and gipsywort (*Lycopus europaeus*), occasional false fox-sedge (*Carex otrubae*) and rare soft rush.

10 Tall ruderal

Tall-herb – dominated vegetation with co-dominant great willowherb and stinging nettle; other species include hedge woundwort (*Stachys sylvatica*), creeping thistle, false oat-grass, hogweed and hemlock.

11 Inundation community

Short, seasonally-wet grassland, dry at the time of survey. Species include abundant creeping buttercup, creeping bent, rough meadow-grass, creeping cinquefoil (*Potentilla reptans*) and silverweed (*Potentilla anserina*).

12 Inundation community / scattered scrub

Dry hollow fringed with frequent grey sallow (*Salix cinerea*) and rare osier (*Salix viminalis*). Vegetation includes small stands of common reed, with frequent hard rush and occasional common spike-rush. The grassy margins support abundant rough meadow-grass and occasional meadow foxtail (*Alopecurus pratensis*), grading to extensive stands of tall-herb vegetation to the south and west, dominated by stinging nettle and great willowherb.

13 Open water (ditch)

The aquatic flora of the ditch is dominated by common water-starwort (*Callitriche stagnalis*), with abundant watercress (*Rorippa nasturtium-aquatica*) and occasional lesser water-parsnip (*Berula erecta*). Wood dock (*Rumex sanguineus*) occurs at the margins, while the left bank supports tall ruderal vegetation with abundant stinging nettle and cleavers, and occasional charlock (*Sinapis arvensis*) and water figwort.

14 Inundation community

Small seasonally-flooded area with a stand of wood small-reed (*Calamagrostis epigeios*).