

# VAYNOR QUARRY

## Appendix 7/2 to EclA – Target Notes

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| Photograph                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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|    | <p>TN1 – Moorland</p> <p>Sheep grazed unimproved grassland sward comprising sheep's fescue (<i>Festuca ovina</i>), mosses, tufted hair grass (<i>Deschampsia cespitosa</i>), gorse (<i>Ulex</i> sp.), bracken (<i>Pteridium aquilinum</i>), bilberry (<i>Vaccinium myrtillus</i>), heather (<i>Calluna vulgaris</i>), purple moor grass (<i>Molinia caerulea</i>), cocksfoot (<i>Dactylis glomerata</i>) and field woodrush (<i>Luzula campestris</i>).</p>                                            |
|    | <p>TN2 – Pond 1</p> <p>Shallow body of water (depth of 30-40cm) water quality good, grassland sloping into water with soft rush (<i>Juncus effusus</i>) and mosses at the edges. Unsuitable for fish and water fowl. Estimated 20m length x 3m wide. Common frog (<i>Rana temporaria</i>) spawn present in the pond, waterbody considered ephemeral.</p>                                                                                                                                               |
|   | <p>TN3 – Scrub Mosaic</p> <p>Grassland species identified as sheep's fescue, mosses, tufted hair grass, bracken, heather, purple moor grass, cock's foot (<i>Dactylis glomeratus</i>) and field woodrush. Hawthorn (<i>Crataegus monogyna</i>) and gorse have a scattered distribution.</p>                                                                                                                                                                                                            |
|  | <p>TN4 – Bare rock and scree</p> <p>Buddleja (<i>Buddleja davidii</i>) sporadic, willow (<i>Salix</i> sp.), and hawthorn occur on the upper slopes/benches.</p> <p>Vegetation is virtually absent from the quarry floor areas which are dominated by bare rock, scree and boulders. Cracks and crevices in quarry faces are of moderate suitability for roosting bats. Peregrine falcon (<i>Falco peregrinus</i>) was recorded and areas of 'white wash' identified indicating possible nest site.</p> |
|  | <p>TN5 – Western upper quarry face</p> <p>Cracks and crevices which provisionally assessed as offering low suitability for bats although with ledges suitable for nesting birds potentially including peregrine falcon.</p>                                                                                                                                                                                                                                                                            |
|  | <p>TN6 – Grassland and Scree</p> <p>Grassland containing abundant purple moor grass and bracken, with hawthorn and soft rush amongst scattered rocks and scree.</p>                                                                                                                                                                                                                                                                                                                                    |

| Photograph                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|    | <b>TN7 – Tip</b><br>Boulders and scree with species including fescues, mosses and purple moor grass with scattered hawthorn and willow scrub.                                                                                                                                                                                                                                                                                                                                                                                                           |
|    | <b>TN8 – Pond 2</b><br>A shallow pond approximately 10m in length x 4m wide with a depth of approximately 20cm. Water quality moderate with 0% shading on the perimeter, 80% vegetation coverage consisting of soft rush and occasional bulrush ( <i>Typha latifolia</i> ).                                                                                                                                                                                                                                                                             |
|   | <b>TN9 – Shake Holes</b><br>Botanical species identified similar to T1 including, sheep's fescue, mosses, tufted hair grass, gorse, bracken, heather, purple moor grass, cocksfoot and field woodrush.                                                                                                                                                                                                                                                                                                                                                  |
|  | <b>TN10 – Moorland</b><br>Extensive area dominated by purple moor grass and occasional scrub.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|  | <b>TN11 – Central Spine</b><br>Undulating aggregate tip and unworked reserve. Plant species include wild strawberry ( <i>Fragaria vesca</i> ), bracken, hawthorn, common sorrel ( <i>Rumex acetosa</i> ), fescue <i>sp.</i> , mosses, gorse, Yorkshire fog ( <i>Holcus lanatus</i> ), creeping bent ( <i>Agrostis stolonifera</i> ), soft rush, annual meadow grass ( <i>Poa annua</i> ), occasional cherry tree ( <i>Prunus cerasus</i> ), yarrow ( <i>Achillea millefolium</i> ), brambles ( <i>Rubus fruticosus</i> ) and locally abundant buddleja. |
|  | <b>TN12 – Pond Area 3</b><br>A group of 4 pools of water, considered ephemeral, the largest of which is approximately 30m in length x 20m in width. Water quality considered moderate, unsuitable for fish or water fowl, moderate terrestrial habitat. 0% shading on the perimeter of the water bodies, the substrate is aggregate, with considerably sparse/no aquatic vegetation at. Common frog spawn present.                                                                                                                                      |
|  | <b>TN13 – Mammal burrow</b><br>Located at the toe of the quarry face, not assessed as badger due to size and shape of tunnel, fox ( <i>Vulpes vulpes</i> ) faeces by entrance.                                                                                                                                                                                                                                                                                                                                                                          |

| Photograph                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|    | <p>TN14 – Eastern quarry void secondary bench</p> <p>Running water from cliff face flowing down the secondary bench cliff face, across the bench and down to the next bench/quarry floor. Bare rock, scree and boulders – colonised by mature goat willow (<i>Salix caprea</i>) and buddleja.</p> <p>Quarry faces are approximately 15m in height with low suitability for roosting bats.</p>                                                                                                               |
|    | <p>TN15 – Eastern Lower Bench Pond Area 4</p> <p>Pooling of water formed on line of running water cascading down from second bench. Two small pools separated by a pile of boulders overall 20m in length x 5m wide and 30cm depth. The northern side being densely vegetated by bulrush. Water quality and terrestrial habitat considered good. Not suitable for fish or water fowl. Considered ephemeral. Common frog spawn present.</p>                                                                  |
|   | <p>TN16 – Scrub</p> <p>Slope within the eastern quarry void which is densely vegetated with goat willow and silver birch (<i>Betula pendula</i>).</p>                                                                                                                                                                                                                                                                                                                                                       |
|  | <p>TN17 – Mosaic</p> <p>Slope within the eastern quarry void continues from dense scrub to more sparsely vegetated areas of grassland with scattered goat willow and buddleja.</p>                                                                                                                                                                                                                                                                                                                          |
|  | <p>TN18 - Pond 5</p> <p>Large body of water approximately 200m in length x 30m wide, with a depth of 1-1.5m bordered by four smaller shallow pools along the eastern side of the pond and another shallow pool to the north. Well established aquatic vegetation in the larger water body including bulrush and pondweed (<i>Potamogeton</i> sp.). Common frog spawn present and a palmate newt also found.</p> <p>The quarry faces bordering to the west of have moderate suitability to support bats.</p> |
|  | <p>TN19 – Pond Area 6</p> <p>Interlinking flow of water from the western quarry face, forming pools along its course across the quarry floor, the largest of which is approximately 20m in length x 10m wide with a depth of 30cm at the time of survey. Bare rock substrate with limited aquatic vegetation (pond weed and occasional bulrush). Not suitable for fish or water fowl. Water quality moderate and terrestrial habitat good. Considered to be ephemeral.</p>                                  |

| Photograph                                                                          | Description                                                                                                                                                                                                                                                                                                  |
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|    | TN20– Mammal burrow<br>Located in soft scree pile on northern slope in processing plant area. Investigated for badger evidence, tunnel narrows considered more typical of fox.                                                                                                                               |
|    | TN21 – Processing plant area<br>Piles of aggregate, scree and boulders, vastly un-vegetated apart from occasional buddleja. Disused quarry infrastructure and building.                                                                                                                                      |
|    | TN22 – Concrete structure<br>Structure leading into the ground, filled with water. Negligible suitability for bats.                                                                                                                                                                                          |
|   | TN23 – Processing plant Building 1<br>Large single skin metal corrugated building/shed structure; open at both ends with open areas in the corrugated sides. Metal frame with a brick foundation, with tipped scree piles inside. Negligible bat potential. Fox den in tipped scree located inside.          |
|  | TN24 – Pond 7<br>Approximately 20m in length x 10m wide, 25cm in depth. 10% cover of bulrush and horsetail ( <i>Equisetum</i> sp.), with 50% shade from treeline. Common frog spawn present. Considered ephemeral. Water quality moderate and terrestrial habitat good. Not suitable for fish or water fowl. |
|  | TN25 – Processing plant Building 2<br>Large single skin corrugated building/shed structure; open at both ends with open area in the corrugated sides with small holes in roofing and sides from damage. Metal frame with a brick foundation. Tipped gravel inside. Negligible bat potential.                 |
|  | TN26 – Small Water Tank 1<br>Metal corrugated tank on concrete base. Negligible bat potential.                                                                                                                                                                                                               |

| Photograph                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|    | TN27 – Quarry roads throughout site<br>Degraded concrete, piles of aggregate and scree. Vegetation cover mostly limited to buddleja scrub.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|    | T28 – Small Water Tank 2<br>Corrugated metal structure with negligible bat potential.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|    | TN29 – Building 3<br>Vandalised boarded up office, brick walls with concrete tiled roof, single storey. North side of the building – missing roof tile, holes under eaves into roof felt lining, gaps around chimney, air brick, large hole above doorway into roof and hole in wall where piping was previously. Eastern gable end – minor holes and gaps in soffit, window smashed but with window guard covering this (too small for a bat to fit through). South side – gaps under soffit, missing tile, gaps under ridge tiles, gap in wall between extension of building. Western gable end – gaps in soffit and hole in brick work. Moderate suitability for bats. |
|   | TN30 – Broadleaved Plantation Woodland<br>Area of plantation woodland on a screening mound/former tip with the following species present – Beech ( <i>Fagus sylvatica</i> ), alder ( <i>Alnus</i> sp.), ash ( <i>Fraxinus excelsior</i> ), silver birch, leylandi ( <i>Cupressus x leylandii</i> ), horse chestnut ( <i>Aesculus hippocastanum</i> ), goat willow, larch ( <i>Larix</i> sp.), sycamore ( <i>Acer pseudoplatanus</i> ) and hazel ( <i>Corylus avellana</i> ). The understorey is sparse and includes ash saplings, hawthorn and dog rose ( <i>Rosa canina</i> ). Ground flora limited to mosses, soft rush, cock's foot and tufted hair grass.             |
|  | TN31 – Quarry Rim<br>A former tip area now vegetated with a mosaic of habitats from open rock and transition to neutral grassland and scrub.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  | TN32 – Yard and Tip Area.<br>A mosaic of bare ground/compact aggregate and various mounds/tipped aggregates supporting scrub and young trees including bramble, hawthorn, buddleja, goat willow, young sycamore, silver birch, bracken and alder ( <i>Alnus glutinosa</i> ).<br><br>The sparsely vegetated areas include loose bare aggregate and ephemeral grassland which supports mosses, wild strawberry, St John's wort ( <i>Hypericum perforatum</i> ). A localised ephemeral water body was found to contain frog spawn although was assessed as recent flooding rather than a pond.                                                                               |
|  | TN33 – Agricultural Land<br>Three semi-improved neutral grassland fields grazed by horses at the time of survey and with gappy hedgerows forming boundaries which contain hazel, blackthorn, bramble, bracken, dog rose and ash. The grassland sward contains meadow grasses ( <i>Poa</i> spp.), creeping thistle ( <i>Cirsium arvense</i> ), creeping buttercup ( <i>Ranunculus repens</i> ), ribwort plantain ( <i>Plantago lanceolata</i> ), mosses and clovers ( <i>Trifolium</i> spp.).                                                                                                                                                                              |
|                                                                                     | TN34 – Broadleaved Plantation Woodland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

| Photograph                                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|    | <p>Screening woodland planted beyond the eastern quarry boundary and typically containing trees to 10m in height, no sign of active management. No species is particularly dominant with beech, silver birch, oak, alder, ash, cherry and hazel noted.</p> <p>The ground flora was sparse at the time of survey with grasses, lesser celandine (<i>Ranunculus ficaria</i>) and <i>Polytrichum</i> mosses.</p>                                                                                                                                                                                                                                                                                                                                                  |
|    | <p>TN35 – Pasture Land</p> <p>A series of sloping semi-improved neutral to acidic grassland fields grazed by horses and sheep at the time of survey. The swards are generally open and closely grazed (less than 5cm) although stands of bracken do occur in places alongside anthills indicating lower levels of agricultural improvement.</p> <p>The swards are characterised by meadow grasses, crested dog's tail (<i>Cynosurus cristatus</i>), perennial rye grass (<i>Lolium perenne</i>), white clover (<i>Trifolium repens</i>), moss (<i>Rhytidiadelphus squarrosus</i>) and sorrel (<i>Rumex acetosa</i>).</p> <p>Hedgerows are gappy and dominated by hazel with occasional mature ash trees noted as having potential roost features for bats.</p> |
|   | <p>TN36 – Nant-y-Glais Woodland</p> <p>Steep sloping woodland with an ash dominated canopy and hazel in the understory and bryophyte rich ground flora which also includes frequent tufted hair grass, opposite leaved golden saxifrage (<i>Chrysosplenium oppositifolium</i>), primrose (<i>Primula vulgaris</i>), bluebell (<i>Hyacinthoides non-scripta</i>) and wood sedge (<i>Carex</i> sp.)</p> <p>Flushes are also present including at least one Tufa forming spring.</p>                                                                                                                                                                                                                                                                              |
|  | <p>TN37 – Upper Quarry Rim</p> <p>At the edge of the plantation woodland (TN34), a group of 10 mature sycamore trees occur which are in excess of 10m in height and 1m DBH.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|  | <p>TN38 – Tree 1</p> <p>Mature ash tree of approximately 12m in height and 1m Diameter at Breast Height, moderate bat roost potential.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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