



# Austerfield Quarry

## Site Biodiversity Action Plan



Prepared: May 2010

Updated: July 2016

### Site Information-Austerfield

<b>Site Name and Location</b>	Austerfield Quarry is situated approximately 1km to the north of Bawtry in South Yorkshire. Grid ref SK 657 947
<b>Hanson Company</b>	Hanson Aggregates - North
<b>BAP(s) that will be targeted</b>	UK BAP Doncaster LBAP
<b>Habitat(s) to be developed</b>	Hedgerows, lowland mixed deciduous woodland, lowland heath and acid grassland
<b>BAP species to be encouraged</b>	<i>Mammals:</i> Water vole, brown hare, harvest mouse, bats (all species) <i>Birds:</i> Barn owl, woodland edge species (turtle dove, green woodpecker, bullfinch, spotted flycatcher, lesser spotted woodpecker, farmland species (marsh tit, tree sparrow, grey partridge, corn bunting, yellow wagtail, skylark) and sand martin <i>Reptiles and amphibians:</i> All species <i>Invertebrates:</i> Solitary wasps and bees, <i>Plants:</i> number of heath/acid grassland species listed in the Preliminary Atlas for Doncaster (January 2007)
<b>Designated Natural Area</b>	Humberhead Levels
<b>Background and site description</b>	To the south of the quarry lies the River Idle Washlands SSSI, to the west of the site is King's Wood, an area of Ancient and Semi-natural woodland. The older part of the quarry is managed by the Mosaic Trust, a charitable body, which has been involved with the quarry restoration since the year 2000, with which Hanson has a strong partnership. The quarry is operational and is being restored progressively in collaboration with the Mosaic Trust. In November 2015 an extension of the quarry to the north was approved and likewise this will be worked and restored progressively.
<b>National Designations (SSSI, SAC, SPAs, RAMSARs and NPs) within 500m</b>	Between the quarry and Bawtry to the south lies the River Idle Washlands SSSI, designated due to its good examples of wet grassland plant communities and large number of passing and wintering waterfowl. The older part of the quarry is designated as an SSI (County wildlife site)
<b>Resource Requirements</b>	Works funded by restoration budget
<b>Contribution to biodiversity</b>	When fully worked restored the site has the potential to hold UK BAP/LBAP priority habitats and their associated species most notably lowland heathland and acid grassland. Restoration of the site (including the northern extension) will fit with the existing designated local wildlife site and increase the biodiversity value of the area as a whole.
<b>Partners and Local initiatives</b>	The Mosaic Trust
<b>Other documents supporting the site BAP</b>	Site Restoration Plan Management and Aftercare plan 2010



## Action Plan

<b>Item No.</b>	<b>Objective</b>	<b>Biodiversity Feature</b>	<b>Targets</b>	<b>Tasks</b>	<b>Assessing Indicator</b>	<b>Responsible Person</b>	<b>Timescale (Completion)</b>
<b>1</b>	Creation of lowland acid grassland.	• Lowland acid grassland, moss and lichen rich.	Establish areas of lowland acidic grassland using natural regeneration or seeds of local provenance.	1.Create and seed acid grassland  2. Manage acid grassland once established	Ha restored and managed	Landscape Architect	2019
<b>2</b>	Restoration and creation of hedgerows and woodland areas.	• Hedgerows encouraging birds, invertebrates.  • Broad-leaved and mixed woodland.	Increase in amount of hedgerow on site.  Increase connectivity of habitats on site  Increase in woodland on site.	1. Plant and manage hedgerows in accordance with detail in establishment and aftercare report.  2. Plant and manage/create woodland areas in accordance with detail in establishment and aftercare report including glades and coppice.	Lin. m planted and maintained  Ha. planted and managed.	Landscape Architect	2029
<b>3</b>	Creation of shallow pools and ephemeral wetland habitat	• Open water/shallow pools and ephemeral ponds	Create shallows and marginal habitat suitable for target amphibian species and dragonflies etc	1.Create pools  2.Restrict access/install signage to particularly sensitive areas (i.e. bird nesting sites such as sand martins)	Successful breeding by number of species  Viable breeding populations of amphibians and dragonflies	Landscape Architect  Site Manager	2019 to 2024  Annually
<b>4</b>	Species conservation	• Bats (all species).	Bat box program in suitable trees on site.	1. Erect bat boxes	Bat box checks	Ecological Consultant	Ongoing until 2029

	and management.	<ul style="list-style-type: none"> <li>• Birds: Barn owl, woodland edge species, farmland species and sand martins</li> <li>• Reptiles and amphibians: all common species</li> <li>• Invertebrates: Solitary wasps and bees</li> <li>• Plants: species of heath/acid grass mosaic</li> </ul>	<p>Creation of suitable woodland and hedgerow habitat for range of species. Maintenance of breeding population of sand martins.</p> <p>Viable populations of a number of the common species.</p> <p>Maintain and increase populations.</p> <p>To maintain presence of species already recorded (13 species)</p>	<p>2. Maintain vigilance of existing nest sites and limit disturbance by making site staff aware of habitat areas. Leave a suitable sand cliff for sand martins and/or build an artificial nesting wall.</p> <p>3. Maintain woodland edge habitat near areas of open grassland to provide suitable habitat for reptiles.</p> <p>4. Manage to maintain bare sand areas</p> <p>5. Manage current habitats where the species are found to maintain in favourable condition and provide new habitat for colonisation.</p>	<p>Regular breeding by a range of species including sand martins.</p> <p>Records of breeding of a number of species</p> <p>Presence of nesting holes in sandy areas</p> <p>Continued presence in previous areas and presence within new areas</p>	<p>Site Manager</p> <p>Mosaic Trust/Landscape Architect</p>	
<b>5</b>	Habitat and species monitoring.	All of the above.	Maintain agreed monitoring programme to ensure target species are monitored and appropriate response agreed.	1. Monitoring data on bird and rare plant species collected and summarised in a report during extraction and continuing for 5 years following restoration.	Monitoring reports	Mosaic Trust/local groups/staff	Every five years up to 2034