

Farnham Quarry

Site Biodiversity Action Plan



Prepared:	2006
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Updated: 2009, 2012 and 2013

Site Information - Farnham Quarry

Site Name and	Runfold Farm, Farnham , Surrey				
Location (incl. Grid	Central Grid Reference SU 872485				
Ref.)	(nb. closer to Aldershot than Farnham itself)				
Hanson Company	Hanson Aggregates				
BAP(S) that will be targeted	National BAP Surrey BAP				
Habitat(s) to be	Wetland (including river and streams, fen, marsh, swamp				
developed	and linear reedbed)				
	Lowland unimproved neutral grassland / Floodplain grazing				
	marsh				
	Standing open water and reedbeds				
	Lowland mixed Broadleaved Woodland				
	Wet Woodland				
BAP species to be	Otter				
encouraged	Bals (esp. Daubenion s) Wintering wildfowl enp. een. Common enipe				
	Breeding birds eg. Little ringed plover skylark reed bunting				
	Dragonflies/damselflies (Odonata)				
Designated Natural	The majority of the site falls within the London Basin (66).				
Area	while the southern edges of the site and the corridor of the				
	A31 falls within the North Downs (69)				
Background and	The 55ha sand and gravel pit was operational between 1998				
site description	and 2010 with majority of site restored in 2011. Final				
	restoration of the plant site area is due to take place in 2014.				
	The site can be divided into 7 compartments (See Fig. 1):				
	I he site can be divided into 7 compartments (See Fig. 1):				
	Blackwater along with an area of broadleaved plantation and				
	natural copse providing a landscape buffer between the				
	residential areas to the north and the former mineral				
	workings to the south. Within the north western part of the				
	compartment, the river was realigned by the Environment				
	Agency in 2006 to create a more natural meandering				
	channel to aid flood flows and improve biodiversity, and				
	wooded / riparian corridor is also served by a network of				
	permissive footpaths, providing connectivity with the				
	'Blackwater Valley Path' and a valuable recreational				
	resource for local residents.				
	Compartment 2a: comprises an area of former silt lagoons				
	which has mostly regenerated with a mix of willow scrub,				
	rough grassland and marginal wetland habitat. The lagoon				
	bund walls of the two south eastern lagoons have been				
	partially breached to provide connectivity with the main lake				
	Compartment 2b : is a partly in-filled former lagoon which				
	has been re-profiled to create enhemeral ponds and scrapes				
	to benefit newts and other amphibians.				
	Compartment 3: is an extensive area of wet grassland				
	which has been restored in a series of phases since 2003.				
	Some of the lower lying areas remain permanently damp				
	and are subject to periodic flooding. The area includes				

	proposed linear plantations along the western and southern boundaries. Compartment 4: is a lower lying area within the former quarry void which for most of the year forms a permanent area of standing open water. Lake margin areas and a series of spits and islands which are subject to seasonal or periodic flooding, mostly comprise bare gravel and overburden substrates. Compartment 5: comprises the former plant site and stockyard area. The proposed restoration scheme will create a mix of wet meadow grassland and woodland plantations with smaller habitat features such as a proposed bat tunnel utilising former processing plant structures. This compartment also includes remnant hedgerows/ trees along the boundary with Compartments 2/ 4
National Designations (SSSI, SAC, SPA etc) within 500m	none
Resource Requirements- comment on cost if appropriate	Site Restoration fund accrued during the operational life of the site is expected to be sufficient to fund remaining restoration earthworks and 20-year extended Aftercare management programme
Contribution to biodiversity	Site has already made a significant contribution to the wetland biodiversity of the Blackwater valley and is already recognised as one of the area's finest sites for birdwatching. The restored land is already designated as SNCI and will continue to develop as a significant local resource especially given its proximity to high local population
Partners and Local initiatives	Blackwater Valley Countryside Partnership, see website <u>http://www.blackwater-valley.org.uk</u> Site management committee comprises partnership between Hanson, Surrey CC, BVCP and local birdwatching group. Environment Agency re river re-alignment scheme RSPB Nature After Minerals use site as case study for wet meadow restoration
Other documents supporting the site BAP	Final Restoration Proposals plan F49r/77b (revised restoration and landscaping scheme) 20-year (S106) Aftercare and Management Scheme Plan F49r/82 (BAP and Management Scheme)





Action Plan

Item	Objective	Biodiversity	Targets	Tasks	Assessing	Responsible	Timescale
No.		Feature			Indicator	Person	(Completion)
1	Habitat creation through completion of	Wet woodland Species-rich rough wet grassland Bat roost	Create approx 2.5 ha of unimproved grassland and 2.5 ha of native broadleaved woodland.	1. Implement revised restoration scheme as outlined on drawing ref. F49m/77b.	Area of grassland and native woodland created.	Ops Manager	Earthworks to be completed by end of 2014.
	restoration of former plant site (AMS Cpt 5)		Design and create bat roost utilising existing concrete tunnel structure.	2. Enhance recovery tunnel with appropriate protective mesh and fixtures for bats	Successful use of bat roost.	BVCP	Grassland and woodland planting completed by Q2 2015
2	Prepare and agree 20 Year Aftercare and Management Scheme.	A wide range of habitats and associated species (see items 3 – 8 below).	To put in place a 20 year Aftercare and Management Scheme	1. Prepare and agree Management Scheme as required by S106 Agreement	Approved scheme in place	Lands and Planning Manager	Annual Aftercare reporting for 5 years then triennially for remainder of 20 year period
3	Manage existing restored grassland (Cpt 3)	Lowland unimproved neutral grassland / floodplain grazing marsh with associated bird and invertebrate species.	Create and manage species-rich mesotrophic grassland communities which are broadly comparable with MG5 and MG8 classification within 10 years of commencement of management regime.	 Secure grazing tenancy and let FBT Maintain grassland by appropriate combination of seasonal grazing/hay cutting Monitor in accordance with 20-year Aftercare & Management Scheme (AMS) Repeat green hay strewing or wildflower over-seeding if necessary 	Successful cattle grazing in place Records of breeding birds such as skylark, lapwing, snipe and redshank Periodic botanical monitoring of grassland	Lands and Planning Manager Landscape Manager Local birdwatching group Consultant ecologist	Tenant sourced and FBT let in 2013. Cattle grazing to be in place before end of 2014 growing season Ongoing annual bird records/counts 5-yearly survey of vegetation

4	Mosaic of	Reed swamp	To establish and manage	1. Maintain Phragmites	Area of willow	BVCP	Annual
	terrestrial	water bodies	terrestrial successional	excess willow scrub	of volunteer-	voluniteers	tasks for BVCP
	habitats on	Scrub	habitats within cpt 2a to		days		
	former silt	Wet woodland / mixed	support varied associated	2. Cut back south-facing	Presence of	Landscape	Excavator
	lagoons (cpt	native broadleaved	fauna: water fowl,	invertebrate banks and	open banks and	Manager	clearance of
	2a).	Rough grassland and	amphibians reptiles and	conditions	records		$\Omega_3 2014$
		tall ruderal vegetation	invertebrates.		1000103		Q0 2014
		Bare mineral faces for		3. Establish scrub/woodland	Area of trees		Planting
		invertebrates.		along northern edges as per	and shrubs		completed by
				plan 77b and AMS	planted		Q2 2015
5	Create pond	Ponds and scrapes	Establish and maintain a	1. Complete earthworks to	No. of ponds	Landscape	Pond complex
	amphibians	Amphibians (incl. G-C.	terrestrial babitat to	water bodies	created	Manager	2013
	within Cpt 2b	newt)	promote the colonisation		Area of		earthworks
		Reptiles	by newts (possibly Great	2. Establish surrounding	grassland		
		Odonata	Crested Newts in the long	grassland/scrub/woodland	seeded and		Vegetation
			term) and other fauna		area of		establishment
					scrub/woodland		as per AMS
					planted		Q2 2015
				3. Monitor for use by	Presence of	Local expert	
				amphibians, reptiles and invertebrates	target species	volunteers	
6	River	Rivers & streams	Create realigned river	1. Re-align main river onto	New river	EA	New channel
	Blackwater &	water vole	channel (in partnership	new naturalised river channel	channel in place	Wild Trout	created Dec
	riparian	Otter	with the EA), with suitable	2 Plant up with locally	No. of voluntoor	I rust	2013 and In-
		npanan invertebrates	vegetation	collected aquatic/riparian	davs	DVCF	and vegetation
	.,.		Vegetation	vegetation, and create in-	aayo		planted March
				river features			2014
7	Enhance	Standing open water,	Create and maintain	1. Prevent excessive scrub	Willow scrub <	Landscape	Ongoing,
	quality and	reed swamp,	mosaic of marginal and	encroachment by periodic	20% of lake	Manager	throughout 20
	DIODIVERSITY	epnemerai/snort	ephemeral habitats.	cutting/spraying/nand-pulling	margin		year AMS

	value of existing lake, islands and margins (Cpt 4).	perennial vegetation/ bare ground mosaic and associated fauna, including waders/ wetland bird species,	Maintain and enhance habitats for wading birds and other wetland species,	 Maintain bare ground for breeding LRPs by patch- spraying with herbicide Monitor bird populations 	Monitoring records of numbers and species wetland birds,	Local birdwatchers	period
8	Maintain and enhance habitat value of existing broadleaved	Native broadleaved woodland and associated woodland birds, bats and invertebrates.	Implement outstanding tree planting as per approved restoration scheme.	1. Plant up remaining perimeter buffer/ habitat linkage strips and plant site blocks	Area of woodland planted	Operations Manager	Planting to be completed by Q2 2015 Felling Licence
	woodland and plantations (Cpts 1, 3 &5)		Manage existing plantations/woodland to improve structural diversity to promote bats, woodland birds and invertebrates. Consider	2. Thin existing screen plantations to favour long- lived final crop canopy species and develop understorey	Area of woodland thinned	Landscape manager	by end Q2 2015 and thinning commenced by Q2 2016
			introduction of appropriate woodland ground flora	3. Coppice and enrich gappy areas of semi-natural woodland between plant site and river	No. of glades coppiced and interplanted.	BVCP volunteers	Copse management underway by Q2 2016
9	Community involvement	Various	Increase knowledge of the existing ecology of the site	1. Collect records from all available local sources and users of site, or external consultants if necessary	Monitoring data provided and submitted to SCC with annual Aftercare reports	Lands and Planning Manager	2013 species monitoring report completed
			Educational visits	2. Make site available for educational visits	No. of school and community visits	BVCP	Ongoing through 20 year AMS period.
			Bird Hide installation and erection of interpretation boards	3. Install bird hide and erect interpretation board/s in suitable locations, explaining	Bird Hide and panels in place	Operations Manager, BVCP	Bird Hide installed by Q4 2016

		the history of the operation, the restoration process/aims and the nature conservation value of the site.			BVCP and
	Volunteer work parties	4. Establish regular programme of volunteer work parties and publish locally	Annual work party programme and reports	BVCP	birdwatcher work parties underway winter 2013/14