

## **Criggion Quarry**

## **Site Biodiversity Action Plan**



## Site Information- Criggion

Site Name and	Criggion Quarry, near Welshpool, Powys
	(0.1000144)
Hanson Company	(SJ290144) Hanson Aggregates
BΔP(s) that will be	LIK BAP
targeted	Powys BAP
Habitat(s) to be	Saum' with rarities; Heath/acid grassland; Bare rock with bryophyte and
developed	lichens; Rock faces; Woodland; Hedgerows; Ponds; Nutrient poor species rich
	grassland.
BAP species to be	<b>Higher plants</b> : <i>Potentilla rupestris*; Sorbus stirtoniana*</i> (syn. <i>S. leptophylla</i> );
encouraged	Silene viscaria; veronica spicata; Pilosella peleteriana subpeleteriana;
	Potentilla argentea: sedum forsterianum: Sorbus anglica: Sorbus
	rupicola:Trifolium glomeratum:
	Lower plants: Bartramia stricta
	Birds: Peregrine falcon.
	Invertebrates: White-letter hairstreak butterfly*.
	Other notable species: Adder <sup>*</sup> .
Designated Natural	None
Area	
Background and	Criggion Quarry is situated approximately 10km north-east of Welshpool in
site description	Powys, Wales. The quarry is located within the Breidden Hills SSSI, a site
	designated primarily because of the presence of rare flora and unusual acidic
	grassland habitat. The management aims for the part of the SSSI within the
	species and communities. This will be achieved in 2 ways firstly by re-
	introduction and secondly by management. Seed is collected from rarities
	already on site and then propagated before being re-introduced. Management
	to remove trees and scrub that shade the crags is also undertaken. The acid
	grassland community in the quarry will also be maintained by removing
	encroaching trees and scrub. Rock faces will be cleared to create the open
	haditals suitable for the ranges. Elsewhere, woodland will further add to biodiversity. Woodland will be linked with bedgerows as babitat corridors. On
	final restoration nutrient poor species rich grassland will be created on the
	quarry floor as well as small ponds, wetland areas, rock outcrops and scree.
National	Breidden Hills SSSI within the site.
Designations	
(SSSI, SAC, SPAS, RAMSARs and NPs)	
within 500m	
Resource	Restoration budget.
Requirements-	Propagation and planting of whitebeam tree species and Sticky catchily
appropriate	Spiked speedwell, Nock cliqueioli, Mouse-eared Hawkweed
appropriato	
Contribution to	Criggion Quarry, when fully worked and subsequently restored, has the
biodiversity	potential to hold national BAP priority habitats and their associated species.
	I he quarry is situated within the Breidden Hills SSSI with the restoration of the
	of the area as a whole
Partners and Local	Natural Resources Wales
initiatives	The Rare British Plants Nursery
Other documents	Criggion Quarry - Management Plan
supporting the site	Criggion Quarry - Review of Previous Work and Guiding Principles for
BAP	Establishing 'Saum' Habitat on the Quarry Benches

Site Layout



## Action Plan

ltem No.	Objective	Biodiversity Feature	Targets	Tasks	Assessing Indicator	Responsible Person	Timescale Completion
1	Increase rare plant species and 'saum'.	Saum habitat with: Sticky catchfly Spiked speedwell Rock cinquefoil Mouse-eared hawkweed Stirton's whitebeam	Increase rarities by seed collection from existing plants and propagation at The Rare British Plants Nursery.	<ol> <li>Propagation of collected seed.</li> <li>Planting out as plant material becomes available.</li> </ol>	Seed collected and successfully propagated. Increase in target populations. Detailed in annual reports.	Rare Plants Nursery Landscape Architect	Ongoing until 2042
2	Management of existing 'saum' habitat on both west and south crags.	'Saum' habitat, including the rarities.	Reduce shade from trees where rarities are present. No loss of exiting rarites.	<ol> <li>Remove trees (esp. pine/beech/larch) and scrub (gorse/boom/blackberry)</li> <li>Survey, protect, mark and plot on dwgexisting rarities during tree/scrub removal work.</li> </ol>	No loss of existing rarities. Success rate of re- introductions.	Landscape Architect	Ongoing until 2042
3	Management of existing heath/acid grassland	Heath/Acid Grassland	Maintain amount of acid grassland on the south crags. No more than 5% cover of scrub inc. gorse and broom.	<ol> <li>Management to prevent succession through tree/scrub removal, strimming and weed treatment. Remove arisings.</li> <li>Mark, protect and plot on dwg. any rarities found.</li> </ol>	Area of Heath/acid grassland species & composition (ha).	Landscape Architect.	Ongoing until 2042
4	Protect existing bryophytes and encourage re- colonisation.	Bryophyte communities associated with volcanic rock including <i>Schistidium helveticum</i>	Increase re-colonisation by bryophytes including Bartamia stricta & Schitidium helveticum	<ol> <li>Place large rocks on benches as they are restored.</li> <li>Tree and scrub control to keep areas open for colonisation.</li> <li>Potential reintroduction of rare species in consultation with NRW.</li> </ol>	Colonisation of lichens.	Site Manager Landscape Architect	Ongoing until 2042
5	Preserve bare rock faces.	Rock faces	Rock faces clear of trees and scrub. Open faces dominated by short grass vegetation.	<b>1.</b> Clear rock faces of trees /scrub that are causing shade esp. pine/larch/gorse/ broom.	Open rock faces.	Site Manager Landscape Architect	Ongoing until 2042
6	Habitat creation and management of woodland.	Broad-leaved woodland.	Increase woodland cover in plant site area and benches that are unsuitable for 'saum'. Elm to be included in any woodland planting mix.	<b>1.</b> Plant broadleaved trees including elm where possible.	Area created and maintained by NVC type (ha).	Landscape Architect.	Ongoing until 2042
7	Habitat creation and management of hedgerows	Hedgerows	Ensure connectivity between woodland blocks through creation of hedgerows.	<ol> <li>Plant new hedgerows</li> <li>Manage hedgerows by cutting and laying.</li> </ol>	Length of hedges planted. (m)	Landscape Architect.	On final restoration 2042
8	Habitat creation/ management nutrient poor species-rich grassland.	Nutrient poor species- rich grassland.	Establish areas using seeds of local provenance where possible and natural regeneration.	1.Seed areas with suitable species	Grassland area restored (ha).	Landscape Architect.	On final restoration 2047
9	Create small ponds	Small ponds	Create small ponds and wetland on final restoration.	1. Earthworks to create shallow margins with sinuous edges to	Habitation by wildlife such as frogs and newts.	Landscape Architect	On final restoration

				maximise habitat potential. <b>2.</b> Plant marginals or allow natural regeneration.			2042
10	Species conservation and management	Peregrine falcon. White letter hairstreak butterfly. Adder.	Maintain breeding presence. Include elm in any planted woodlands to encourage White letter hairstreak butterfly. Maintain woodland edge habitat near areas of open grassland to provide suitable habitat for adders.	<ol> <li>Maintain vigilance of existing nest sites and limit disturbance on site by making site staff aware of habitat areas.</li> <li>Plant elm.</li> <li>Manage/cut woodland edge.</li> </ol>	Site Manager to inform site staff and contractors working close to habitat areas. No. of trees planted. Area managed.	Site Manager Landscape Architect	Ongoing to 2042
11	Communications and publicity	Criggion Quarry biodiversity including flagship species.	Display to be built at the quarry offices so visitors can learn about the habitat and rare plants. Local groups use site as educational resource.	<ul> <li>1.Trip to NBGW for local residents/interested parties.</li> <li>2. Visits to Experimental Plot by interested local parties.</li> </ul>	No of colleges, schools and students visiting site.	Site Manager.	Ongoing to 2042