

Habitat Management and Monitoring Plan

Site Name:	Dorothy Hyman Sports Centre Snyder Rd Cudworth Barnsley S72 8LH
Date:	22/10/2024
Version:	1.0



Author:



Client:



Contents

1. Project Background	2
Summary of Management Plan	2
Site Boundary Plan PB-F01.....	3
Site Context Plan PB-F02.....	4
Phasing strategy.....	5
Roles and Responsibilities	5
Land Use Summary.....	6
Site Context Photos PB-F03.....	6
Site Baseline, Environmental Information and Associated Impacts Checklist PB-T01	8
Baseline and Environmental Information.....	Error! Bookmark not defined.
2. Planned Management Activities	11
Principles Informed by Design Stage	11
Habitat and Condition Targets PM-T01	12
Habitat Retention.....	13
Habitat Retention Plan PM-F01	13
Creation, Enhancement and Management Targets and Prescriptions	14
Habitat Creation and Management – Risk Register and Remedial Measures PM-T02	15
3. Monitoring Schedule	19
Monitoring Strategy	19
Monitoring Methods and Intervals MS-T01.....	19
Monitoring Reports	20
Adaptive Management	20

Version Control

The version control is used for updates to the content. Record the initial version and further version control details in this table each time the management plan is altered throughout the management and monitoring period.

Version	Issue Status	Prepared by / Date	Approved by / Date
1.0	DRAFT	RHW 10/10/2024	

Document Details

Provide ownership, copyright and licensing information within this table.

Authorship Details
<p>Brooks Ecological Ltd.</p> <p>Unit A, 1 Station Road, Guiseley, Leeds, LS20 8BX</p> <p>Phone: 01943 884451</p> <p>01943 879129</p> <p>www.brooks-ecological.co.uk</p> <p>Registered in England Number 5351418</p> <p>Brooks Ecological Ltd has prepared this report for the sole use of McArdle Sport-tec Ltd.</p> <p>The information which we have prepared and provided is in accordance with the CIEEM's Code of Professional Conduct. We confirm that the opinions expressed are our true and professional bona fide opinions. This report does not constitute legal advice.</p> <p>The report is in accordance with the agreement under which our services were performed. No warranty, express or implied, is made as to the advice in this report or any other service provided by us. This report may not be relied upon by any other party except the person, company, agent or any third-party for whom the report is intended without the prior written permission of Brooks Ecological Ltd.</p> <p>This report relies on a snapshot of the site at the date it was surveyed as a baseline; the conditions and the species recorded present, or likely absent, can change rapidly. Resurvey is recommended to any third-party seeking reliance on this report. The content of this report may, in part, be based upon information provided by others and on the assumption that all relevant information has been provided by those parties from whom it has been requested. Information obtained from any third-party has not been independently verified.</p>

1. Project Background

Summarise the key aspects of your management plan in this section. Table PB-B01 can be extended to suit the specific needs of individual projects.

Site Overview PB-B01	
Project type	Off-site
Development Name and Address	Dorothy Hyman Sports Centre Snydale Rd Cudworth Barnsley S72 8LH
BNG Project Name and Address	Dorothy Hyman Sports Centre Snydale Rd Cudworth Barnsley S72 8LH
Author Organisation	Brooks Ecological Ltd.
Landowner	Barnsley Metropolitan Borough Council
Land Manager	Barnsley Premier Leisure
Responsible person/organisation for creating or enhancing the habitat	Barnsley Premier Leisure - Tom Galvin
Period covered by this management plan	2025 - 2055 Plan will be reviewed and updated first in 2030, then 5-yearly to 2055.
Planning authority	Barnsley Metropolitan District Council
Planning reference (if applicable)	2024/0578
BNG register reference (if applicable)	tbc
Central OS grid reference	SE391088
Metric revision/title	Statutory Metric (2024)
Are any Irreplaceable Habitats present onsite	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>

Summary of Management Plan

Habitats to be Retained, Created and Enhanced PB-B02

An area of existing Modified Grassland adjacent to a new sports pitch will be lost with new Neutral Grassland (wildflower grassland) created in its place.

Timescales for Actions PB-B03

Created habitat will be sown and planted during landscape works. Establishment of new habitats to the target conditions will take 5 years. Ongoing management will be secured by this plan for the statutory 30-year period.

Monitoring Requirements PB-B04

Monitoring will be carried out by a suitably qualified and experienced surveyor during the growing season May – August with reports produced in years 1,2,3,5,10,20,30

Required Consents and Licences PB-B05

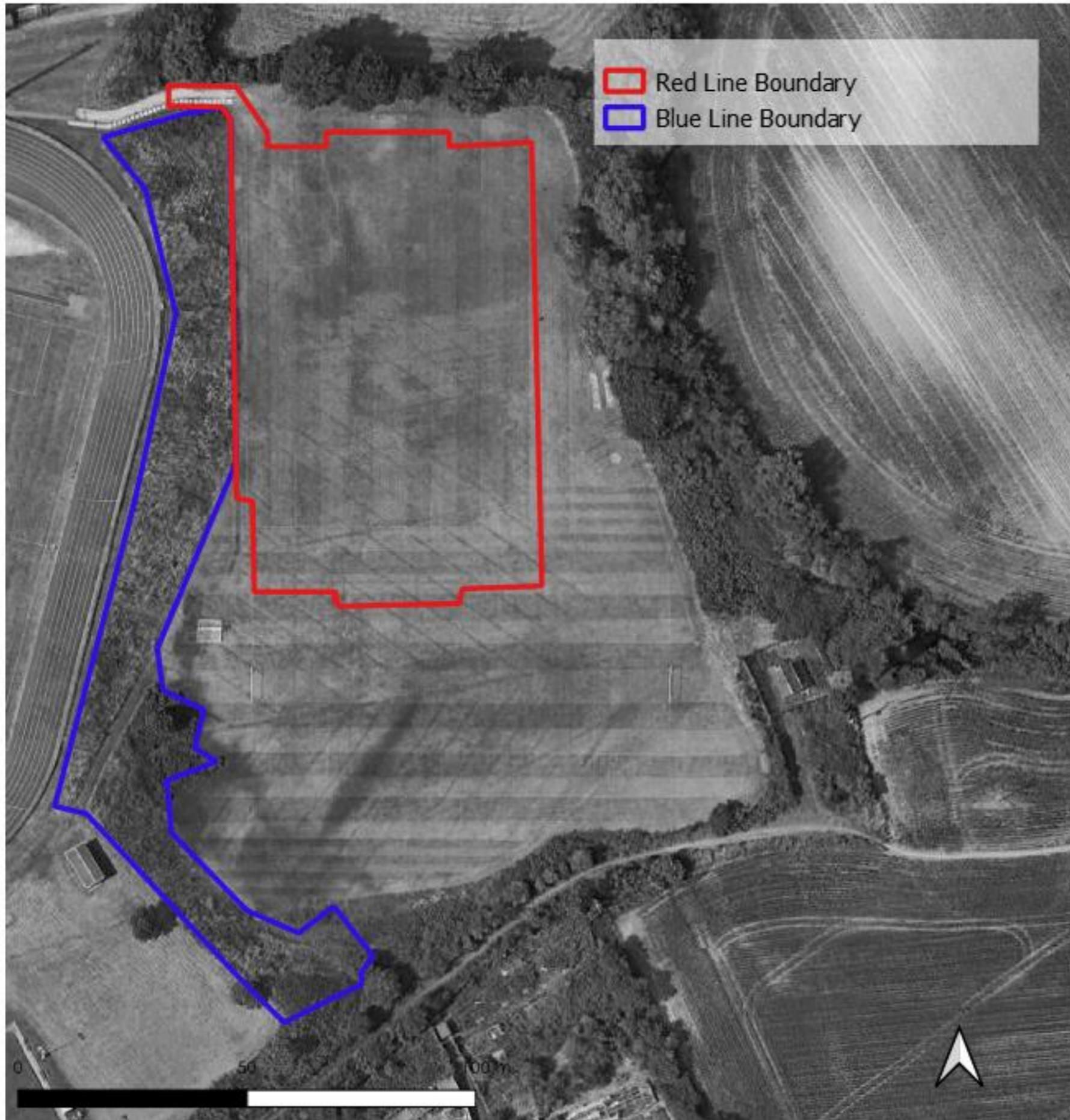
Planning Permission only.

Funding PB-B06

Funding is the responsibility of Barnsley Premier Leisure as part of the management of the site and the business operations of the additional pitch.

Legal Agreement PB-B07

The Habitat Management and Monitoring Plan (HMMP) has been secured by a section 106 agreement





Barnsley District does not have a Local Nature Recovery Strategy (LNRS) at present but will in time form part of the South Yorkshire Mayoral Combined Authority LNRS which is currently under consultation.

The presence of statutory or local designations relevant to the proposals at this Site was scoped out at the Preliminary Ecological Appraisal stage of planning.

The Site's location (red square) is shown in context of the relevant National Character Area and Local Administrative boundaries in the plan above. These are cited opposite.

National Character Areas (England)	
Reference	38
Name	Nottinghamshire, Derbyshire and Yorkshire Coalfield
Square km	1698
Hyperlink	https://www.nationalcharacterareas.co.uk
Counties, Metropolitan Districts and Unitary Authorities (GB)	
Name	Barnsley District (B)
Geographic Level	Metropolitan District
Hectares	32907.763

Phasing strategy

Will the proposed work measures be delivered in phases? PB-B08 Yes: No:

This management plan covers a single-phase.

The development will be an artificial turf football pitch built as a single phase, timed capital project.

Roles and Responsibilities

Provide details of the responsible persons and organisation(s) for delivering this management plan.

Ecologist or Other Professional Responsible for HMMP PB-B09

Name or Initials	Rob Weston for and on behalf of			
Organisation	Brooks Ecological Ltd			
Responsibility	Start Date:	10/2024	End Date:	11/2024

Brooks Ecological have been commissioned to produce the HMMP for planning approval purposes.

Statement of Competency

Technical Director at Brooks Ecological. Full member of CIEEM. Many years' experience of carrying out practical habitat management and producing management plans.

Landowner or Land Manager PB-B10

Name or Initials	Stuart Rogers			
Organisation	Barnsley Metropolitan Borough Council			
Responsibility	Start Date:	2025	End Date:	2055

The Site is owned by Barnsley Metropolitan Borough Council (BMBC), it is managed on their behalf by Barnsley Premier Leisure (BPL) who will be responsible for ensuring the correct management and monitoring is in place.

Statement of Competency

BPL have a long-standing responsibility for the management of this Site.

Management Organisation(s) Responsible for Implementing the HMMP PB-B11

Name or Initials	Tom Galvin			
Organisation	Barnsley Premier Leisure			
Responsibility	Start Date:	2025	End Date:	2055

BPL will be responsible for carrying out the relevant management prescriptions and for ensuring the required monitoring takes place.

Statement of Competency

• XX

LPA or Responsible Body for Reviewing HMMP PB-B12

Name or Initials	Planning Ecologist			
Organisation	Barnsley Metropolitan Borough Council			
Responsibility	Start Date:	2025	End Date:	2055

Barnsley Metropolitan Borough Council are anticipated to have a review and auditing responsibility as part of their responsibilities as LPA.

Land Use Summary

Overview of Baseline Site Use PB-B13

The application Site (red-line) is a section of sports pitch (modified grassland – poor condition). The displacement of this habitat by a new all-weather 3G pitch has required the use of the blue line land shown opposite in order to generate biodiversity units to off-set the development impacts.

The blue line land is also modified grassland – currently poor condition, occupying a steep bank separating sports pitches and tracks at the sports club. A mown track through the grassland allows management access between the pitches.

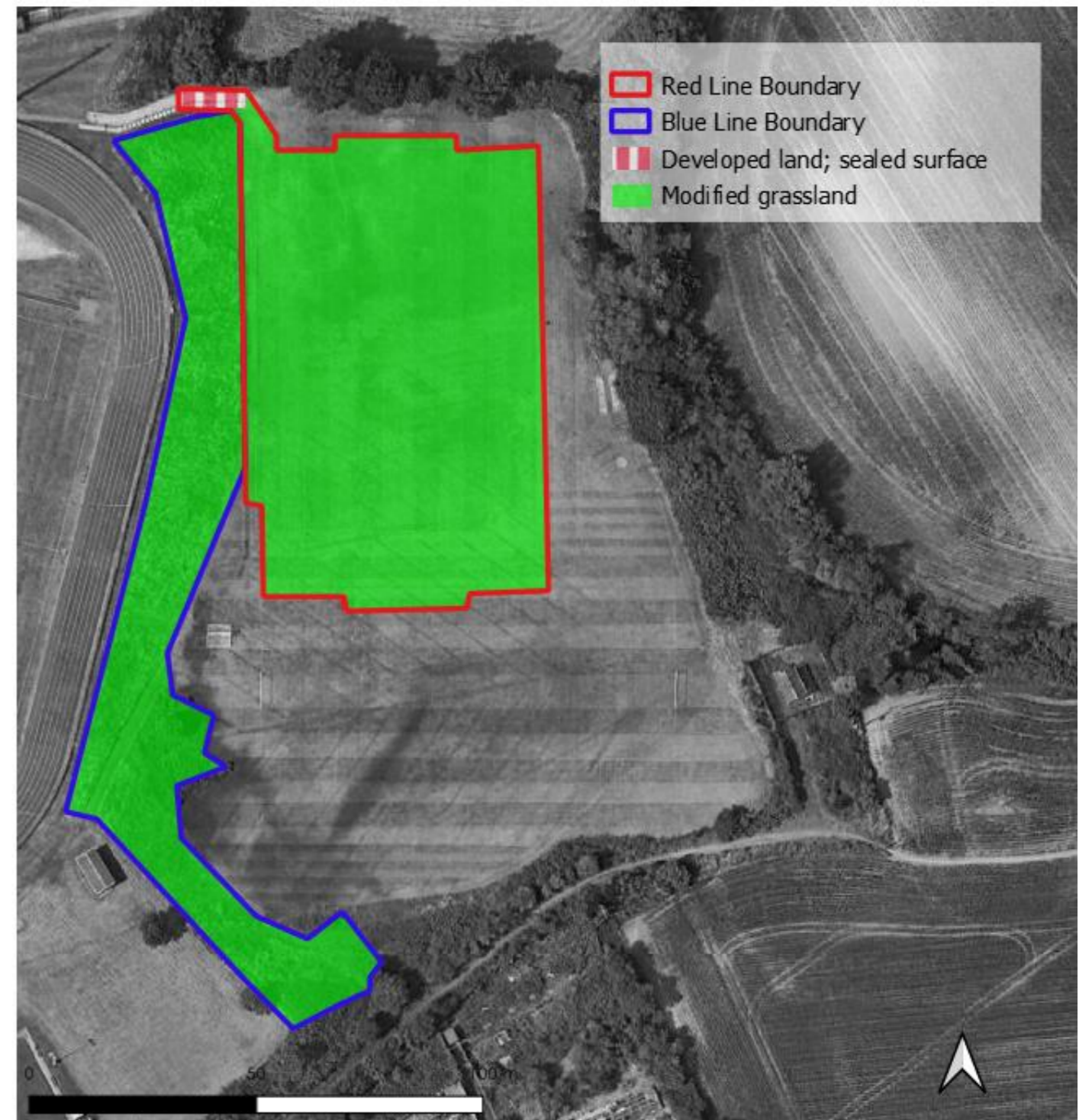
Overview of Proposed Site Use PB-B14

The red-line land is to be used as an all-weather sports pitch.

Blue line land, subject to this plan, will be Other Neutral Grassland occupying a steep bank separating sports pitches and tracks at the sports club. A mown track through the grassland will allow management access between the pitches.

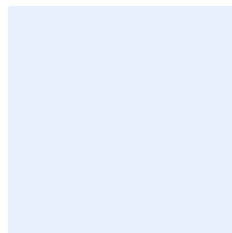
This plan relates to the blue-line land only.

Baseline Habitats Plan



Site Context Photos PB-F03

Reference: Click or tap here to enter text.



Site Baseline, Environmental Information and Associated Impacts Checklist PB-T01

Consider the Baseline and Environmental Information listed below. These are likely to be appropriate factors informing your proposals and project design. They can provide the reviewer with important contextual information for the management prescriptions provided later in this document. Use your professional judgement to determine which factors are relevant to your specific project.

Please use the check box to indicate which are included in your plan. For any not included, provide brief reasons why the factor is not relevant to your project using your professional judgement. Where this information is provided elsewhere, you can reference existing reports and, or, plans that have informed your decisions.

Baseline and Environmental Information	Prompts for when these may be relevant. This is not an exhaustive list. Use your professional judgement to determine which are required for your HMMP	Check box if included	Document Reference or Reason if not included
Statutory / Non-statutory Designated Sites	Will your proposals lead to direct or indirect effects on designated sites?	<input type="checkbox"/>	Information provided in ER-7498-01 – Preliminary Ecological Appraisal Report, Brooks Ecological. No Local Sites identified as relevant.
Protected and Notable Species	Does the presence or proximity of specific species on or near your site present any constraints or opportunities to project design or management?	<input type="checkbox"/>	Information provided in ER-7498-01 – Preliminary Ecological Appraisal Report, Brooks Ecological. No Protected or Notable Species issues identified.
Invasive Non-Native Species (INNS)	Are any INNS present onsite that could affect the proposals?	<input type="checkbox"/>	Information provided in ER-7498-01 – Preliminary Ecological Appraisal Report, Brooks Ecological. No INNS identified.
Biological Records Plan - Sites and Species	Does the presence of designated sites or specific species on or near the site present any constraints or opportunities to proposals?	<input type="checkbox"/>	Information provided in ER-7498-01 – Preliminary Ecological Appraisal Report, Brooks Ecological. No issues relating to nearby designations identified. The only relevant species records raised were of bats 1.8km from the Site – their presence generally in the area relevant to the Site's lighting - providing mapping of these is not relevant to HMMP
Baseline Habitats Survey	Is this current and important HMMP information located in a separate document? If so, provide details on where it is located.	<input type="checkbox"/>	Mapped in ER-7498-02 - Biodiversity Net Gain Assessment Report and reproduced in the HMMP
Public Access	Has public access, or proposals to allow public access, influenced your management prescriptions? If so, how?	<input type="checkbox"/>	No public rights of way interact with the Site.
Climate	Are local climate conditions and, or, climate change likely to impact the target habitat retention, creation or enhancement?	<input type="checkbox"/>	The habitat provided in the HMMP is considered to be resilient to the levels of climate change expected over the next 30 years (the plan period). These being broadly rises in average temperature of 2 degrees Celsius and of average rainfall of 14%. These changes being within the tolerances of the species proposed.
Geology and Topography	Any geological or topographical constraints or opportunities?	<input checked="" type="checkbox"/>	The project's Ground Investigation Report (Soiltechnics Ref STV5991-G01 Rev A -May 2023) provides details on the area's geology - extracts / analysis are provided in the relevant Companion Document inserts which follow.
Agricultural Land Status	Does the site support any land favourable for agricultural management? Could this affect the proposals?	<input type="checkbox"/>	The Site is not agricultural land.

Soils and Substrates	Do soils and substrates present any constraints or opportunities?	<input type="checkbox"/>	The project's Ground Investigation Report (Soiltechnics Ref STV5991-G01 Rev A -May 2023) provides details on the area's soils with samples being taken and tested from within the adjacent sports pitch proposal Site. This suggests pH between 5 and 7 which would be suitable for the proposed creation. NPK levels are not provided. Precautionary soil testing is included as part of the HMMP works alongside management which will prevent the build-up of nutrients.
Contaminated Land	If there is any contaminated land, will this present any constraints?	<input type="checkbox"/>	The project's Ground Investigation Report (Soiltechnics Ref STV5991-G01 Rev A -May 2023) considers contamination - this concludes that during the ground investigation works no significant visual or olfactory evidence of contamination was observed, beyond the presence of anthropogenic materials in the Topsoil and Made Ground.
Hydrology and Drainage	Will the site hydrology present any constraints or opportunities?	<input type="checkbox"/>	The projects Ground Investigation Report (Soiltechnics Ref STV5991-G01 Rev A -May 2023) provides details on the flood risk and confirms that according to Environment Agency flood maps, the site is within a Flood Zone 1, indicating there is less than a 0.1% chance of flooding from rivers or the sea in a year (see Figure 2- 5 below). The creation is also on elevated sloping ground - flood risk and drainage are no anticipated to be an issue here.
Flood Risk Zones	Is the site within a flood risk zone? Will that present any site management risks?	<input type="checkbox"/>	The projects Ground Investigation Report (Soiltechnics Ref STV5991-G01 Rev A -May 2023) provides details on the flood risk and confirms that according to Environment Agency flood maps, the site is within a Flood Zone 1, indicating there is less than a 0.1% chance of flooding from rivers or the sea in a year (see Figure 2- 5 below). The creatin is also on elevated sloping ground - flood risk and drainage are no anticipated to be an issue here.
Landscape Character and Designations	Does the landscape character of the site present any constraints or opportunities?	<input type="checkbox"/>	As set out on p.4 the Site is in NCA 38 – The Nottinghamshire, Derbyshire and Yorkshire Coalfield Proposals are consistent with the aims of this area in terms of providing new habitat which can better connectivity and accessible green infrastructure.
Historic Land Use	Does the historic land use present any constraints or opportunities?	<input type="checkbox"/>	Brief information is presented on this in the project's Design and Access Statement MUGA UK Ltd Ref Ref: MCA-MUK3149-DAS (June 2024) such that 'prior to its current use as a sports facility the site was unspecified open land with playing fields becoming evident in the 1960's and then the southern part of the site recoded as Dorothy Hyman Stadium since 1984'. Former use is not expected to constrain habitat creation here.
Historic Environment and Earth Heritage	Are there any historic environment designations? What are the implications for your plan?	<input type="checkbox"/>	Historic England mapping indicates that there are no heritage features interacting with the Site. Detailed information in this respect has not been required as part of this application.
Other – please specify	Any other details - for example underground services or overhead powerlines, which may impact habitat management.	<input type="checkbox"/>	

Geology and Topography

Geological Information (EI-B07)

The projects Ground Investigation Report (Soiltechnics Ref STV5991-G01 Rev A -May 2023) provides details on the soils and geology of the area. This shows the site to occupy made (artificial) ground overlying the Mexborough Rock (sandstone) formation of the Coal Measures.

Potential Impact to Scheme (EI-B08)

Underlying geology is likely to confer neutral to slightly acidic soil conditions locally, permeability is likely to be moderate. These are ideal conditions for the creation of the habitat proposed. Precautionary soil testing has been incorporated into the method so that seed mix can be adjusted should this be required.

Topography (EI-B09)

The proposed habitat creation occupies steeply sloping land resulting from the past terracing of the sports pitches development



Potential Impact to Scheme (EI-B10)

Topography will favour the creation of habitat in a location where it can establish and be managed in the absence of pressure from other uses of the Site. Suitable mowing equipment will be required in order to manage grassland on sloping ground - likely a tractor mounted collected flail mower.

Geology and Topography Plan (EI-F02)



Figure 2-2: Superficial deposits (proposed FTP in green)



Figure 2-3: Redrock deposits (proposed FTP in green)

2. Planned Management Activities

Provide the site-wide aims and objectives. These should consider the Project Background information section outlined above as well as the outcomes of the Metric.

Management Plan Aims and Objectives PM-B01

Aims

The Habitat Management Plan (HMMP) aims to ensure that the bund area identified is successfully converted to and managed as an area of Neutral Grassland which is flower-rich and provides an attractive feature of the Site and structure and foraging for local wildlife.

Objectives

- Create an area of neutral grassland achieving moderate condition by year 5
- Management of the neutral grassland in moderate condition over the 30-year plan period.
- The development is to deliver a net gain of 0.52 Habitat Units (+34.29%)*

*Statutory Biodiversity Metric Calculation Tool Excel spreadsheet (ref. BM-7498-01)

Condition Assessment sheets (CA-7498-01)

Principles Informed by Design Stage

The project's BNG target(s) should be set and documented early in the design process. Outline how background and baseline information influenced key design principles for the project from an early stage. This can provide useful context for the proposed retention, creation and enhancement measures.

Design Principles Informed by Baseline Information PM-B02

Constraints or opportunities relating to local designated sites have not been identified here.

The Site is located within the Dearne Valley Green Heart Nature Improvement Area (NIA) – Grassland enhancement on land owned or managed by the council is one of the targeted themes of the NIA.

The existing habitat on Site is modified grassland - a low distinctiveness grassland occupying relatively fertile neutral soil conditions.

In this case it is located on relatively steeply sloping ground which has no use at the sports club and has been left un-managed

The Site presents a good functional location for neutral grassland creation as it has good links to structured habitats to either side of the Site and is a habitat type which is under-represented locally.

Habitat and Condition Targets PM-T01

This table presents a summary record of what you have agreed to deliver based on the biodiversity metric. These habitat condition targets form the basis of what the management plan is setting out to achieve. Include the relevant 'Area', 'Hedgerow', and 'Watercourse' types to be implemented and managed throughout the period of 30 years or more.

Baseline Habitat Type	Target Habitat Type	Parcel / Feature Refs	Baseline Condition	Targeted Condition	Years to Targeted Condition	Condition Assessment Targets	Comments
Modified grassland	Other neutral grassland	G1	Poor	Moderate	Standard time: 5 years	A, C, D, E	3 or 4 Criteria passes = Moderate Condition

Habitat and Condition Targets Further Comments

Habitat Retention

Provide a concise description of the habitats that are to be retained in their baseline condition. Habitats being retained may still require ongoing measures to maintain their baseline condition.

Measures to be Implemented to Protect Retained Habitats PM-03

None of the baseline modified grassland to be retained.

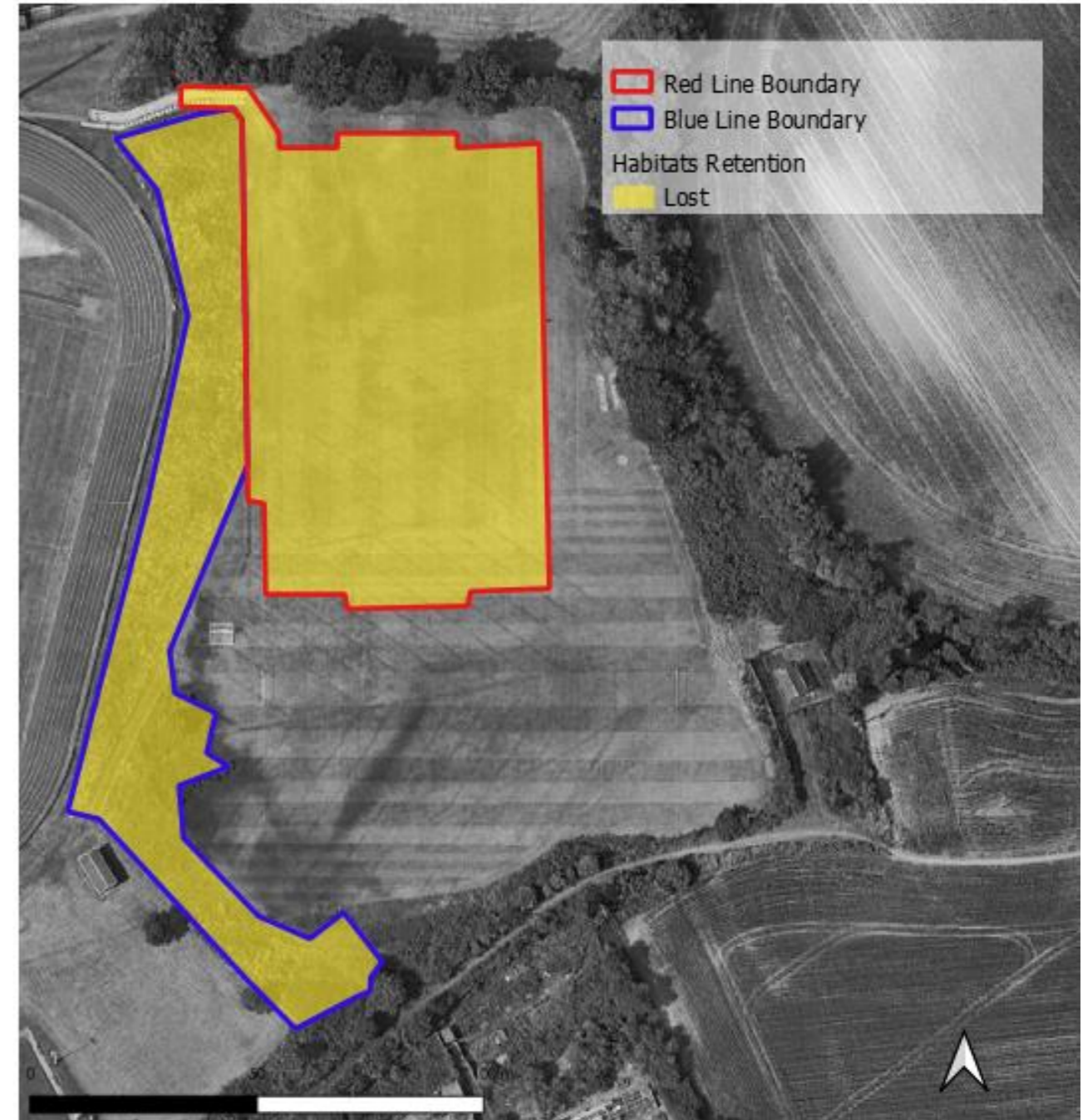
Specification of Protective Measures to be Used PM-04

Not required.

Any use of herbicide will be carried out by suitably trained operatives and during weather conditions where any 'drift' onto adjacent habitat can be avoided.

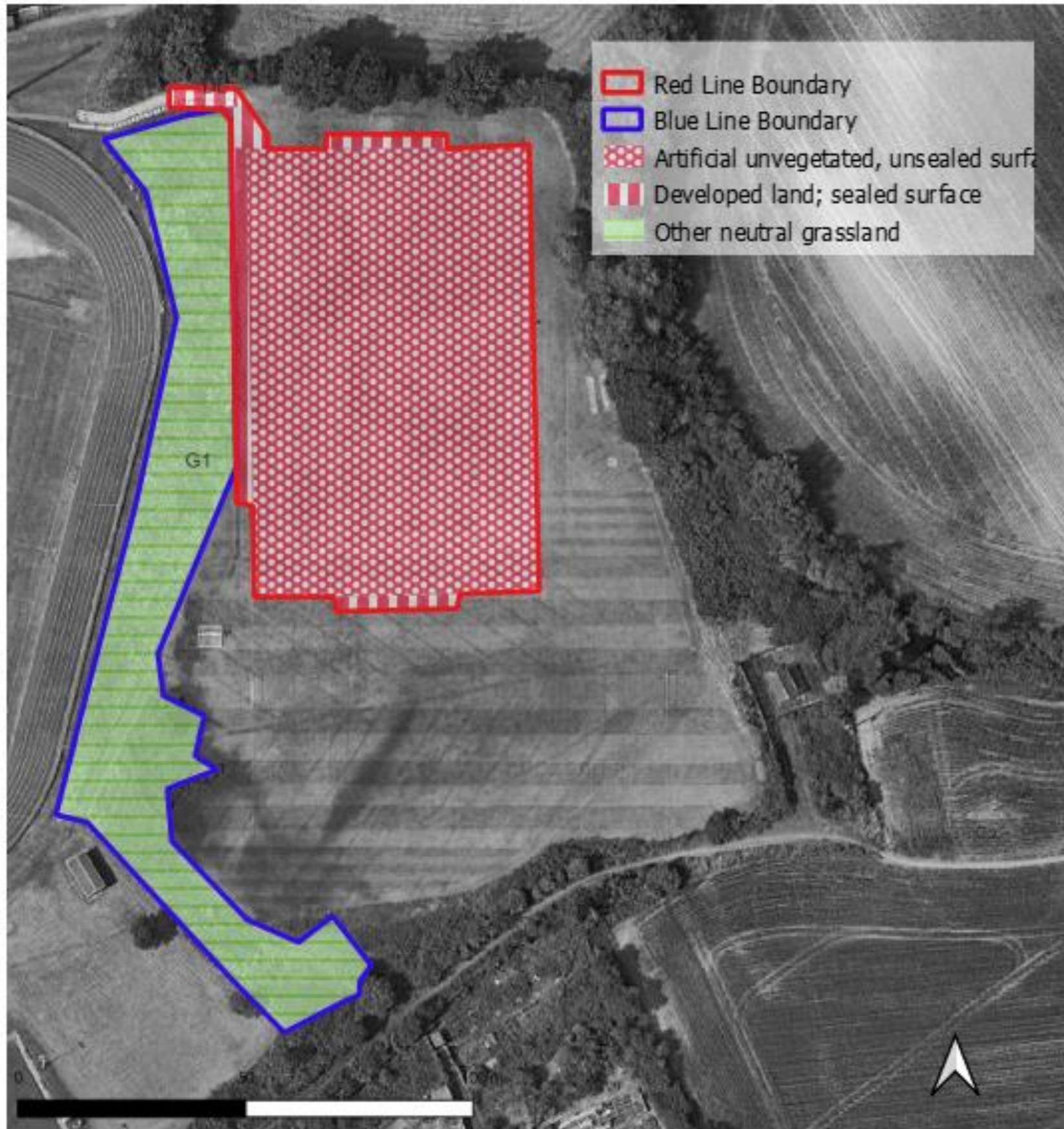
Habitat Retention Plan PM-F01

Provide a plan with the locations of habitats to be retained (including whether to be protected and, or, enhanced) and those to be created under this HMMP. Include parcel references if needed. Tick box if any additional plans are provided in the Appendices . Reference: [Click or tap here to enter text.](#)



Creation, Enhancement and Management Targets and Prescriptions

Habitat Creation, Enhancement and Management Plan EM-F01



Grassland (Medium, High, and Very High Distinctiveness)

Creation, Enhancement and Management Summary (GH-T01)

Provide details of the approach to delivering each of the targeted condition criteria and habitat.

Conditions from Statutory Biodiversity Metric habitat condition assessment sheets – Sheet 6. Grassland Med High and V. High.

Target Habitat			Other Neutral Grassland – Created to Moderate Condition (passes 3 – 5 criteria must include A)			
Condition Assessment Criteria	Targeted	Relevant Parcels	Creation Approach	Enhancement Approach	Management Approach	
A The parcel represents a good example of its habitat type, with a consistently high proportion of characteristic indicator species present relevant to the specific habitat type. Note – this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.	YES	G1	Use of species rich meadow seed mix	-	Mowing regime will prevent build-up of nutrients.	
B Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.	NO	-	n/a	-	n/a	
C Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.	NO	G1	Disturbance at the edges of the habitat parcel and along the occasionally used access through it is likely to maintain c.1-5% localised bare ground.	-		
D Cover of bracken <i>Pteridium aquilinum</i> less than 20% and cover of scrub (including bramble) less than 5%.	YES	G1	Meadow grassland created from weed free soil conditions. Weed control measures in place.	-	Annual mowing will suppress bracken and scrub colonisation	
E Combined cover of species indicative of suboptimal condition and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging activities) accounts for less than 5% of total area. If any invasive non-native species (as listed on Schedule 9 of WCA) are	YES	G1	Meadow grassland created from weed free soil conditions. Weed control measures in place. Compaction risk low – absent in this location.	-	Grassland areas to be protected from potentially damaging impacts from site operations. Monitoring will inform the need of weed control.	

	present, this criterion is automatically failed.					
F	<p>There are 10 or more vascular plant species per m² present, including forbs that are characteristic of the habitat type.</p> <p>Note – this criterion is essential for achieving Good condition for non-acid grassland types only.</p>	No	-	n/a	-	n/a

Additional Management Prescriptions (GH-B01)

Grassland (Medium, High, and Very High Distinctiveness)

Creation, Enhancement and Management Detailed Methods (GH-T02)

Provide detailed prescriptions for the creation and management of the habitat.

Action	Relevant Parcels	Timing	Prescriptions
Soil Preparation	G1	Year 0	<p>Plan well ahead (at least 1 year)</p> <p>Get NPK and pH soil tests done. Results should inform soil suitability with a neutral pH and low – medium nutrient load. Seed mix could be adjusted here to account for soil type if required.</p> <p>Soils must be free from perennial weeds. Good preparation is essential to success so aim to control weeds and produce a good quality seed bed before sowing. Area here to be cut to ground level and arisings removed, Spay off re-growth after 3 weeks. After another 3 weeks harrow or rake to produce a medium tilth and roll to produce a firm surface.</p>
Meadow seeding	All ONG	Autumn or spring	<p>Seed with Emorsgate <i>general purpose meadow mix</i> EM2 @ 4g/m² (or LPA approved equivalent).</p> <p>Seed according to supplier's instructions.</p> <p>Seed will either be broadcast by hand or by approved lightweight machinery at c. 40Kg /Ha. Following seeding the area will be lightly rolled to incorporate the seed with the soil.</p>
Year 1 Establishment	All ONG	Year 1	<p>Allow for Five cuts from mid-august (or prior to annual wees seeding – adjust accordingly).</p> <p><u>Collect arisings and remove</u> from Site or compost. Arisings could be re-purposed as feed (hay) or as green hay for seeding other grassland areas.</p> <p>Ideally dig out perennial weeds by hand or if more prevalent use a weed wipe three times in year 1 – Target : Spear thistle, creeping thistle, broad-leaved dock, clustered dock, wood dock, curled dock, nettle. Operative must be proven competent in identifying these in their early stages to prevent killing off sown wildflowers.</p>
Annual cut and Collect	All ONG	Year 2 onwards	<p>Two cuts, once in August and again in October</p> <p><u>Collect and remove arisings as in year 1</u></p> <p>Continue to dig or spot-treat competitive weed species each year until under control.</p>



Grassland (Medium, High, and Very High Distinctiveness) Species Lists (GH-T03)

Provide a detailed species list for the habitat to be created

Wild flowers – 15%

0.75% *Achillea millefolium* – Yarrow

2.25% *Centurea nigra* – Common Knapweed

1.20% *Daucus carota* – Wild Carrot

0.30% *Galium verum* – Lady’s Bedstraw

0.60% *Knautia arvensis* – Field Scabious

1.95% *Leucanthemum vulgare* – Oxeye Daisy

0.75% *Malva moschata* – Musk Mallow

2.25% *Plantago lanceolata* – Ribwort Plantain

1.5 % *Poterium sanguisorba* ssp *sanguisorba* – Salad Burnet

0.45% *Primula veris* – Cowslip

1.50% *Ranunculus acris* – Meadow Buttercup

0.75% *Rhinanthus minor* – Yellow Rattle

0.75% *Silene vulgaris* – Bladder Champion

Grasses – 85%

8.50% *Agrostis capillaris* – Common Bent

29.75% *Cynosurus cristatus* – Crested Dogstail

25.50% *Festuca rubra* – Red Fescue

4.25% *Phleum bertolonii* – Smaller Cat’s-tail

17.00% *Poa pratensis* – Smooth-stalked Meadow-grass

Other Supporting Information

Supporting Information (GH-B02)

What Does Success Look Like? (GH-F01)



3. Monitoring Schedule

To deliver BNG, a robust strategy is critical to monitor successes and challenges. Routine monitoring informs progress and facilitates the required management plan updates at set intervals.

Monitoring Strategy

Provide details of the monitoring strategy to encourage successful implementation of the management plan (MS-B01)

The Site will be visited during the main growing season but prior top cutting (May-July) when plant identification is easiest, and most species are visible.

Monitoring will be carried out by a suitably qualified ecological surveyor by a walk over survey of the site, recording conditions of each included habitat against the target condition criteria. Photographs and species lists will be used to support assessment where appropriate. Use of GPS to locate and map reported issues will allow remedial works to be effectively targeted.

At Year 5, the HMMP will be reviewed in response to findings over the first five years of monitoring and plan objectives and prescriptions revised to ensure delivery of target units.

Monitoring Methods and Intervals MS-T01

Provide details of the methods you will use to adequately monitor the progress towards the targets stated in the management plan and as agreed with the Local Planning Authority.

Habitat Type	Monitoring Methods	Monitoring Interval and Timing
Other neutral grassland	<p>To be undertaken on all created grassland.</p> <p>Check progress towards UK Habitats target grassland type.</p> <p>Estimate percentage cover of undesirable weed species, bracken, scrub, bare ground and damage.</p> <p>Collect a botanical species list across grassland.</p>	<p>Years 1,2,3,5,10,20,30</p> <p>Surveys to be completed between May and August</p>

Monitoring Reports

Following completion of habitat creation and initial enhancement works, prepare for your monitoring report for the Local Planning Authority or Responsible Body. You should monitor each habitat type comprising the BNG project. Provide sufficient detail for the reviewing authority to assess the progress. The 'Monitoring Report Template' can help you do this. The requirements and regularity with which the monitoring reports are required are at the discretion of the LPA or Responsible Body. Prepare the monitoring requirements below.

Monitoring Report Schedule MS-T02

Provide details of the person or organisation that will be responsible for submitting the monitoring reports. Also state the responsible organisation for receiving and reviewing the reports.

Organisation Responsible for Submitting the Monitoring Reports	Organisation Receiving and Responsible for Reviewing Reports
Barnsley Metropolitan Borough Council (BMBC)	Barnsley Metropolitan Borough Council (BMBC)

Provide details of when the monitoring surveys and reports will be undertaken and submitted. You can extend the table and adjust according to your required schedule.

Project Year	Month Report to be Submitted	Month Management Plan to be reviewed	Comments
Y1	September	September or October	Report on results of initial habitat creation.
Y2	September	September or October	Report on results of creation and management measures against time to target conditions.
Y3	September	September or October	Report on results of creation and management measures against time to target conditions.
Y5	September	September or October	Report on results of creation and management measures against time to target conditions. Carry out first review of the HMMP.

Y10	September	September or October	Report on results of habitat retention, and creation measures against time to target conditions. Review and modify HMMP if required.
Y20	September	September or October	Report on results of habitat retention, and creation measures against time to target conditions. Review and modify HMMP if required.
Y30	September	September or October	Final Report on results of habitat retention, and creation measures against time to target conditions. Review and modify HMMP if required.

Adaptive Management

Summary of Adaptive Management Approaches (MS-B02)

Observations from site management and monitoring will be used to inform adaptive management, with the HMMP objectives and prescriptions reviewed and updated on a 5-yearly basis.

Regular robust monitoring, and reporting to BMBC will identify issues early on.

Reporting will be used to make conscious decisions to implement effective actions. If the BNG objectives are affected by external factors, decisions on changes to the management prescriptions and targets will be agreed with BMBC

Following the review, any changes in this HMMP will be recorded and updated.