

Casework To Application		Not Applicable	•	
Case/Applic	ation title	Wemmergill Es Agreement 20°		lanagement Plan
Assessment	t made by		Date:	30/05/2017
European Si	ite(s):	North Pennine	s SAC (UK	0030033) & SPA (UK9006272)
Component	SSSI(s):	Lune Forest		
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Assessment Summary

- The Wemmergill Estates Ltd Management Agreement (2017 2042) sets out a shared vision and multiple outcomes for grouse moor management, farming, biodiversity and the natural environment. It also includes a programme of moorland infrastructure and management\restoration works across the Estate.
- Although a number of works in the Management Agreement are directly connected with and necessary for the conservation \ restoration of SAC and SPA features to favourable conservation status, there are elements of the plan which cannot be screened out as specifically for these purposes and further Habitats Regulations Assessment was required.
- Although the proposed operations are considered unlikely to have a significant effect on the SPA (either alone or in combination with other plans or projects) some of the proposed works could not be screened out at this stage with regard to the SAC and an appropriate assessment of these elements was undertaken by Natural England
- Because the plan/project is not wholly directly connected with or necessary to the management of the European site and is likely to have a significant effect on that site (either alone or in combination with other plans or projects), Natural England carried out an Appropriate Assessment as required under Regulation 21 or 61 of the Habitats Regulations 2010 to ascertain whether or not it is possible to conclude that there would be no adverse effect on the integrity of a European Site. Natural England has concluded that it can be ascertained that the plan or project will not have an adverse impact on the integrity of the North Pennine Moors SAC either alone or in combination and permission can be given without conditions.
- A separate and additional consideration of the plan or project's likely impacts on those features of special interest for which the relevant SSSI(s) has been notified has concluded that the plan is consistent with furthering the conservation and enhancement of the special interest of the SSSI.
- On the basis of these assessments, and on the understanding that the moorland infrastructure and vegetation management \ restoration works are undertaken by the estate in strict accordance with the principles and specifications in Sections 2, 3 and 4 of the Management Agreement, the operations in the Management Plan may be consented.



PART A:

Introduction and Information about the plan or project and an initial assessment of credible risk to European Sites

A1. Introduction

This is a record of the Habitats Regulations Assessment ('HRA') undertaken by Natural England in its role of competent authority and in accordance with the assessment and review provisions of the Conservation of Habitats and Species Regulations 2010 (as amended) ('the Habitats Regulations').

The plan/project requires Natural England as a statutory regulator to make [or to review] a consent decision under section 28E(1)(a) of the 1981 Wildlife and Countryside Act (as amended) on whether an SSSI owner or occupier can carry out, cause or permit to be carried out an operation or operations listed by a SSSI notification and which:

- a) does not fulfil the conditions in section 28E(3)(b) or (c) and,
- b) appears to be either a 'project' or part of a 'plan or project' which may affect a European Site (hereby referred to as either 'the plan' or 'the project').

Where such a proposal may affect a European Site, **Regulation 21** of the Habitats Regulations requires an assessment to be made of such proposals.

In making this HRA as competent authority, Natural England may <u>only</u> undertake or give its consent, permission, assent or authorisation to the plan or project where it is able to ascertain *either*.

- a) that it will not have a likely significant effect on a European site (either alone or incombination with other plans and projects), or;
- b) that it will have no adverse effect on the integrity of a European Site following an appropriate assessment.

If such effects cannot be ruled out, the proposal cannot proceed unless the further tests given in Regulations 62 and 66 of the Habitats Regulations can be satisfied (see Natural England's HRA Operational Standard for further details on how to proceed further).



A2. Details of the plan or project

Location (including grid references):

Central Point on Wemmergill Estate NY 870 220. See map in Management Agreement and enlarged map attached to Wemmergill Estates Ltd Management Plan Agreement 2016

Name of applicant: Wemmergill Moor Ltd

Description of the plan or project and its constituent elements:

Section 1 of the Management Plan sets out a shared vision and multiple outcomes for grouse moor management, farming, biodiversity and the natural environment over a 25 year period from 2017 – 2042 and Section 2 highlights the sensitive features across the site.

More specifically, the Management Plan includes a programme of moorland infrastructure and management\restoration works across the Estate (most of which require Natural England's consent) as laid out in Sections 3,4 and 5 of the document and itemised in the list below:

Section 3: Sustainable infrastructure specifications

Standard plastic mesh tracks for argocats, quad bikes and pedestrians Supported plastic mesh tracks for argocats, quad bikes and pedestrians Standard boardwalks for argocats, quad bikes and pedestrians Raised boardwalks for argocats, quad bikes and pedestrians

Stone tracks on acid grassland (but not on sensitive features)

Stone infill in small areas of wet acid grassland or rush gutters (not on sensitive features)

Sunken and semi-sunken butts Hurdle butts Temporary free standing butts

Water scrapes

Grit stations

Translocation of small areas of dry heath or acid grassland vegetation

Post and wire fencing (for grazing management or grazing exclosures)

Section 4: Heather management principles

Mechanical cutting for restoration purposes on active and modified blanket bog Burning for restoration purposes on active and modified blanket bog Burning on a rotation for the maintenance of dry heath



Heather beetle management on blanket bog

Section 5: Bare peat and grip blocking specifications (see Annexes 1a, 1b & 1c)

Fencing for livestock exclusion to prevent erosion and encourage re-vegetation of peat Sediment traps and barriers to prevent erosion of peat and vegetation by water Re-profiling of steep slopes, haggs and gullies to prevent erosion of peat and vegetation Heather brashing of bare peat to prevent erosion and drying out of peat Application of lime and fertiliser and inoculation with moorland seed mix \ Sphagnum mosses to re-vegetate peat

Unblocking of erroneously blocked natural water courses in rush mires adjacent to localised blanket bog areas

Section 6: Monitoring

Establishment of permanent fixed point photography monitoring plots Establishment of heather protection trial plots

Has the plan or project, or any aspect of it, already been subject to assessment under the Habitats Regulations by another competent authority? No

A.3 Initial assessment of risks to European Sites

This section sets out the potential ways in which the plan or project might credibly affect European Site(s) based on a rapid assessment of location, proximity, type, scale, extent, duration, frequency and timing of the operations / activities which might take place if implemented.

The available advice provided by Natural England's <u>Impact Risk Zones</u> for terrestrial sites and /or statutory <u>Advice on Operations for European Marine Sites</u> should be considered as appropriate to inform this risk assessment.

With reference to the information above and before undertaking a more detailed screening assessment, on the basis of professional judgment; Natural England has concluded;
□ There is or may be a credible risk that the plan or project subject to an assessment might undermine the conservation objectives of a European Site. Further Habitats Regulations assessment is therefore necessary [continue to Part B]



PART B: Information about the European Site(s) which could be affected

B1. Brief description of the European Sites(s) and their Qualifying Features

There is or may be a credible risk that the plan or project subject to an assessment might undermine the conservation objectives of the following European Sites;

North Pennine Moors SAC & SPA

Priority habitats or species are denoted by an asterisk (*)

The qualifying features potentially affected by the proposal are underlined.

North Pennine Moors SAC

Designated under Article 4(4) of the Natural Habitats and Wild Flora and Fauna Directive for the following natural habitats and/or species listed in Annex I and II of the Directive:

Habitats

Species

4010	Northern Atlantic wet heaths with Erica tetralix
<u>4030</u>	European dry heaths
5130	Juniperus communis formations on heaths or calcareous grasslands
6130	Calaminarian grasslands of the Violetalia calaminariae
6150	Siliceous alpine and boreal grasslands
6210	Semi-natural dry grasslands and scrubland facies: on calcareous substrates (Festuco-
	Brometalia)
<u>7130</u>	Blanket bogs*
<u>7220</u>	Petrifying springs with tufa formation (Cratoneurion)*
<u>7230</u>	Alkaline fens
8110	Siliceous scree of the montane to snow levels (Androsacetalia alpinae and
	Galeopsietalia ladani)
8210	Calcareous rocky slopes with chasmophytic vegetation
8220	Siliceous rocky slopes with chasmophytic vegetation
91A0	Old sessile oak woods with <i>Ilex</i> and <i>Blechnum</i> in the British Isles
1528	Saxifraga hirculus; Marsh saxifrage



North Pennine Moors SPA

Classified under Article 4.1 of the Wild Birds Directive for:

<u>A082</u>	Circus cyaneus; Hen Harrier (breeding population)
<u>A098</u>	Falco columbarius; Merlin (breeding population)
<u>A103</u>	Falco peregrinus; Peregrine Falcon (breeding population)
A140	Pluvialis apricaria; European Golden Plover (breeding population)

B2. European Site Conservation Objectives (including supplementary advice)

Natural England provides advice about the Conservation Objectives for European Sites in England in its role as the statutory nature conservation body. These Objectives (including any Supplementary Advice which may be available) are the necessary context for all HRAs.

The overarching Conservation Objectives for every European Site in England are to ensure that the integrity of each site is maintained or restored as appropriate, and that each site contributes to achieving the aims of the Habitats and/or Wild Birds Directive, by either maintaining or restoring (as appropriate):

- The extent and distribution of their qualifying natural habitats,
- The structure and function (including typical species) of their qualifying natural habitats,
- The supporting processes on which their qualifying natural habitats rely.
- The supporting processes on which the habitats of their qualifying features rely.
- The population of each of their qualifying features, and
- The distribution of their qualifying features within the site.

Where Conservation Objectives Supplementary Advice is available, which provides further detail about the features' structure, function and supporting processes mentioned above, the implications of the plan or project on the specific attributes and targets listed in the advice will be taken into account in this assessment.

In light of the European Sites which could be affected by the plan or project, this assessment will be informed by the following site-specific Conservation Objectives, including any available supplementary advice;

The current Conservation Objectives for the North Pennines SAC and SPA are available at: http://publications.naturalengland.org.uk/publication/6361191412662272 http://publications.naturalengland.org.uk/publication/6079716435951616



PART C: Screening of the plan or project

To check whether a detailed appropriate assessment is necessary, there are two screening tests required by the assessment provisions of the Habitats Regulations;

C1. Is the plan or project directly connected with or necessary to the (conservation) management (of the European Site's qualifying features)? No

The Wemmergill Estates Ltd Management Agreement sets out a shared vision and multiple outcomes for grouse moor management, farming, biodiversity and the natural environment. It also includes a programme of moorland infrastructure and management\restoration works across the Estate. Although a number of these are directly connected with and necessary for the conservation \ restoration of SAC and SPA moorland features to favourable conservation status, there are elements of the plan which cannot be screened out as specifically for these purposes and which are capable of having a likely significant effect on these features (see items in red font in Table C1).



Table C1. Test: Necessary for Management of the European Site

Proposed activity \ element of the project	European site qualifying feature	Necessary for management?	Reasons for decision	Carry forward to LSE test?
3 Sustainable Infrastructure Sp	ecifications			
Standard and supported plastic mesh tracks and standard and raised boardwalks for argocats, quad bikes and pedestrians (12.4km)	Petrifying springs with tufa formation (Cratoneurion) Alkaline Fens European Dry heath Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	No	Not specifically required for restoration \ conservation of SAC features or SPA supporting habitat or SPA breeding bird populations	Yes
Stone tracks on acid grassland but not on sensitive features (2.9km)	Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	No	Not specifically required for restoration \ conservation of SPA supporting habitat or SPA breeding bird populations	Yes
Stone infill in small areas of wet acid grassland or rush gutters (but not on sensitive	Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine	No	Not specifically required for restoration \ conservation of SPA supporting habitat or SPA breeding bird populations	Yes



features)	Falcon, Hen Harrier			
Sunken and Semi – sunken butts, hurdle butts and temporary free standing butts (9 lines)	Blanket bog European Dry heath Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	No	Not specifically required for restoration \ conservation of SAC features or SPA supporting habitat or SPA breeding bird populations	Yes
Water scrapes	European Dry heath Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	No	Not specifically required for restoration \ conservation of SAC features or SPA supporting habitat or SPA breeding bird populations	Yes
Grit stations	Blanket bog SAC European Dry heath Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	No	Not specifically required for restoration \ conservation of SAC features or SPA supporting habitat or SPA breeding bird populations	Yes
Translocation of small areas of dry heath or acid grassland vegetation	European Dry heath SAC Breeding populations of SPA	No	Not specifically required for restoration \ conservation of SAC features or SPA supporting habitat or SPA breeding bird populations	Yes



	birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier			
Post and wire fencing (for grazing management or grazing exclosures)	Blanket bog SAC Petrifying springs with tufa formation (Cratoneurion) Alkaline Fens European Dry heath Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Yes	Required for restoration \ conservation of SAC features, SPA supporting habitat and SPA breeding bird populations by exclusion of livestock to allow regeneration of vegetation. See Section 3 of Management Agreement for details. Regeneration of vegetation will provide increased opportunities for typical blanket bog, dry heath, alkaline fen and spring plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover.	No
4 Vegetation Management P	rinciples	1		
Mechanical cutting of vegetation	Blanket bog Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Yes	Required for restoration of less active, inactive and modified blanket bog to a functioning blanket bog system with increased Sphagnum cover and reduced heather cover. See Section 4 of Management Agreement for details. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover. Representative areas subject to such one-off cutting will be carefully monitored afterwards in accordance with Section 6 of the	No



			Management Agreement and follow up interventions such as Sphagnum inoculation and seeding with bog plant species will be conducted as appropriate. If evidence of successful restoration is not apparent at subsequent monitoring times in the future further inoculation \ seeding interventions will be applied. Required to maintain or restore supporting habitat for SPA breeding bird populations.	
Burning of vegetation as a single burn for restoration purposes	Blanket bog SAC Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Yes	Required for restoration of less active, inactive and modified blanket bog to a functioning blanket bog system with increased Sphagnum cover and reduced heather cover. See Section 4 of Management Agreement for details. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover. Representative areas subject to such one-off restoration burns will be carefully monitored afterwards in accordance with Section 6 of the Management Agreement and follow up interventions such as Sphagnum inoculation and seeding with bog plant species will be conducted as appropriate. If evidence of successful restoration is not apparent at subsequent monitoring times in the future further inoculation \ seeding interventions will be applied. Required to maintain or restore supporting habitat for SPA breeding bird populations.	No
Burning of vegetation on a rotation	European Dry heath Breeding populations of SPA	Yes	Required for maintenance of quality, diversity and structural variety of dry heath. See Section 4 of management Agreement for details.	No



	birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier		Required to maintain or restore supporting habitat for SPA breeding bird populations through improved breeding and feeding opportunities and cover.	
Heather beetle Management on blanket bog	Blanket bog SAC Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	No	Not specifically required for restoration \ conservation of blanket bog or maintenance of breeding SPA bird populations.	Yes
Moorland restoration works on acid grassland	Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Yes	Required for restoration \ conservation of SPA supporting habitat and SPA breeding bird populations by regeneration of semi-natural vegetation to provide increase breeding and feeding opportunities and cover. See Section 4 of Management Agreement for details.	No
5 Bare Peat and Grip Blocking S	Specifications (see Annexes 1a, 1	b &1c)		I
Fencing for livestock exclusion	Blanket bog Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Yes	Required for restoration of active and modified blanket bog to a functioning blanket bog system. See Section 5 and Annexes 1a, 1b & 1c of Management Agreement for details. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and peat formation to increase. Required to maintain or restore supporting habitat for SPA breeding bird populations. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover.	No



Sediment traps and barriers	Blanket bog	Yes	Required for restoration of active and modified blanket bog to a	No
to prevent erosion of peat	Due adius u suculations of CDA		functioning blanket bog system. See Section 5 and Annexes 1a, 1b &	
and vegetation by water	Breeding populations of SPA		1c of Management Agreement for details. Regeneration of	
	birds: European Golden		vegetation will provide increased opportunities for typical blanket	
	Plover, Merlin, Peregrine Falcon, Hen Harrier		bog plants to flourish and peat formation to increase.	
			Required to maintain or restore supporting habitat for SPA breeding bird populations. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover.	
Re-profiling of steep slopes, haggs and gullies to prevent erosion of peat and vegetation	Blanket bog SAC Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Yes	Required for restoration of active and modified blanket bog to a functioning blanket bog system. See Section 5 and Annexes 1a, 1b & 1c of Management Agreement for details. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and peat formation to increase. Required to maintain or restore supporting habitat for SPA breeding bird populations. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover.	No
Heather brashing of bare peat to prevent erosion and drying out of peat	Blanket bog SAC Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine	Yes	Required for restoration of active and modified blanket bog to a functioning blanket bog system. See Section 5 and Annexes 1a, 1b & 1c of Management Agreement for details. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and peat formation to increase.	No



	Falcon, Hen Harrier			
			Required to maintain or restore supporting habitat for SPA breeding bird populations. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover.	
Application of lime and fertiliser and inoculation with moorland seed mix \ Sphagnum mosses to revegetate peat	Blanket bog SAC Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Yes	Required for restoration of active and modified blanket bog to a functioning blanket bog system. See Section 5 and Annexes 1a, 1b & 1c of Management Agreement for details. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and peat formation to increase.	No
			Required to maintain or restore supporting habitat for SPA breeding bird populations. Regeneration of vegetation will provide increased opportunities for typical blanket bog plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover.	
Unblocking of erroneously blocked natural water courses in localised rush mires adjacent to blanket bog	Blanket bog SAC Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Yes	Required for restoration of active and modified blanket bog to a functioning blanket bog system. See Section 5 – these works will rectify excessive artificial waterlogging and disturbance of peat and blanket bog vegetation. Required to maintain or restore supporting habitat for SPA breeding bird populations. See section 5 of management agreement – the regeneration of natural blanket bog vegetation will provide	



			increased opportunities for typical blanket bog plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover.	
6 Monitoring	T			1
Establishment of permanent fixed point photographic monitoring plots to inform future management initiatives	Blanket Bog SAC Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Yes	Required for restoration of active and modified blanket bog to a functioning blanket bog system. See Section 5 and Annexes 1a, 1b & 1c of Management Agreement for details. Studies of the regeneration of vegetation will provide site-specific data to inform future management activities and enable typical blanket bog plants to flourish and peat formation to increase.	No
			Required to maintain or restore supporting habitat for SPA breeding bird populations. Studies of the regeneration of vegetation will provide site-specific data to inform future management activities. This will enable increased opportunities for typical blanket bog plants to flourish and will provide diversification of habitat structure to support SPA bird populations through improved breeding and feeding opportunities and cover.	
Establishment of two heather protection trial plots (20 x 20m)	Blanket Bog SAC Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	No	Not specifically required for restoration \ conservation of blanket bog or maintenance of breeding SPA bird populations.	Yes



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☐ As the plan or project is not directly connected or necessary to the management of <u>all</u> of the European site(s)'s qualifying features, further Habitats Regulations assessment is required [continue to C2]

C2. Is there a likelihood [or risk] of significant [adverse] effects ('LSE')?

This section details whether those constituent elements of the plan or project which are (a) not directly connected with or necessary to the management of the European Site(s) features and (b) could conceivably adversely affect a European site, would have a **likely significant effect**, either alone or in combination with other plans and projects, upon the European sites.

In accordance with European case law, this HRA has considered an effect to be 'likely' if it 'cannot be excluded on the basis of objective information' and is 'significant' if it 'undermines the conservation objectives'. In accordance with Defra guidance on the approach to be taken to this decision, in plain English, the test asks whether the plan or project 'may' have a significant effect (i.e. there is a risk or possibility of such an effect).

Each of the project elements has been tested against each of the relevant European site qualifying features. An assessment of potential effects using best available evidence and information has been made in the following sections below.

Measures that would avoid or reduce the risk or likelihood of significant effects arising and which are <u>already integral</u> to the nature of the plan or project as submitted have been taken into account at this stage.

C2.1 Risk of Significant Effects Alone

The first step is to consider whether any elements of the project are likely to have a significant effect upon a European site 'alone' (that is when considered in the context of the prevailing environmental conditions at the site but in isolation of the combined effects of any other 'plans and projects'). Such effects do not include those deemed to be so insignificant as to be trivial or inconsequential.

The results of this assessment for each qualifying feature are shown in Table C2.1.

Elements capable of having a likely significant effect are shown in red font.



Table C2.1 Likelyhood of Likely Significant Effects (LSE) alone

Proposed activity \ element of the project	Qualifying feature likely to be affected	Potential effect	The mechanism / pathway of effect	Does the project include measure which would mitigate the potential effects? (Y/N) If yes provide details	Likely Significant Effect (LSE?) (Yes /No /Uncertain)
3 Sustainable Infrastru	cture Specifications				
Standard and supported plastic mesh tracks and standard and raised boardwalks for argocats, quad bikes and pedestrians (12.4km)	Blanket bog SAC Petrifying springs with tufa formation (Cratoneurion) Alkaline Fens European Dry heath	Loss and/or degradation from damage from vehicles used during installation of boardwalk and mesh track sections.	Compaction, rutting and exposed peat as a result of vehicle movement. Damage/destruction of vegetation as a result of vehicle movement.	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	Uncertain
SAC SAC	Loss and/or degradation from damage from vehicles used during installation of boardwalk and mesh tracks potentially disrupting hydrology.	Compaction and rutting by vehicles may affect the hydrological functioning of the peat.	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2& 3 of Management Agreement for details.	Uncertain	
		Loss and/or degradation underneath the mesh and timber	Possible temporary/permanent loss of some vegetation under mesh footprint	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management	Uncertain



boardwalk footprint (e.g. light interception by boardwalk).		Agreement for details.	
Loss and/or degradation from vehicles using the mesh route.	Repeated vehicle use could result in degradation of the vegetation and prevent regeneration. The pounding effect could result in increased areas of bare peat and loss through erosion.	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	Uncertain
Loss and/or degradation vehicle damage along the mesh route disrupting adjacent hydrology (e.g. mesh sinks into peat).	Repeated vehicle use could result in mesh sinking into the peat.	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	Uncertain
Degradation due to vegetation flailing and spreading of arising's.	Physical damage to the vegetation and potentially inappropriate regeneration (may not result in desired species regeneration).	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	Uncertain
Degradation due to potential leaching of	Leaching from tanalised timber could alter the	Yes, avoidance measures and\or mitigation included in sustainable	Uncertain



		chemicals from	chemical composition of	infrastructure specifications. See	
		treated timber used	water in the peat and	Sections 2 & 3 of Management	
		for boardwalk	indirectly affect vegetation	Agreement for details.	
		sections.	growth and composition.		
Br	reeding populations of	Loss and/or	Potential direct loss of	Yes, avoidance measures and\or	No
SP	PA birds: European	degradation of	habitat available for	mitigation included in sustainable	
Go	olden Plover, Merlin,	nesting habitat along	nesting or breeding birds.	infrastructure specifications. See	
Pe	eregrine Falcon, Hen	the route.		Sections 2 & 3 of Management	
Ha	arrier			Agreement for details. Area of habitat	
				affected is 12,400m length x 2.5m	
				width = 3.1 ha within a SPA >	
				140,000Ha. This is considered	
				inconsequential and unlikely to impact	
				on the breeding success of the SPA	
				breeding bird assemblage.	
		Disturbance to	Disturbance through	Yes, avoidance measures and\or	No
		breeding birds from	vehicle usage.	mitigation included in sustainable	
		use of the route.		infrastructure specifications. See	
				Sections 2 & 3 of Management	
				Agreement for details. Shooting	
				activities occur from August to	
				November and therefore avoid	
				disturbance impacts to SPA bird	
				assemblage.	
		Disturbance to	Construction works and	Yes, avoidance measures and\or	No
		breeding birds during	vehicle use could disturb	mitigation included in sustainable	
		construction of the	or displace breeding birds.	infrastructure specifications. See	
		route.		Sections 2 & 3 of Management	
				Agreement for details. To avoid	



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				disturbance or damage impacts on	
				breeding birds or their nests all	
				construction works will take place	
				between 1 July to 1 April and providing	
				that there are no nesting birds in the	
				location of the works.	
Stone tracks on acid	Breeding populations of	Loss and/or	Potential direct loss of	Yes, avoidance measures and\or	No
grassland but not on	SPA birds: European	degradation of	habitat available for	mitigation included in sustainable	
sensitive features	Golden Plover, Merlin,	nesting habitat along	nesting or breeding birds.	infrastructure specifications. See	
(2.9km)	Peregrine Falcon, Hen	the route.		Sections 2 & 3 of Management	
, ,	Harrier			Agreement for details. Area of habitat	
				affected is 2900m x 3m (maximum) =	
				0.87 ha within a SPA >140,000 ha. This	
				is considered inconsequential and	
				unlikely to impact on the breeding	
				success of the SPA breeding bird	
				assemblage.	
		Disturbance to	Disturbance through	Yes, avoidance measures and\or	No
		breeding birds from	vehicle usage.	mitigation included in sustainable	
		use of the route.		infrastructure specifications. See	
				Sections 2 & 3 of Management	
				Agreement for details. Shooting	
				activities occur from August to	
				November and therefore avoid	
				disturbance impacts to SPA bird	
				assemblage.	
		Disturbance to	Construction works and	Yes, avoidance measures and\or	No
		breeding birds during	vehicle use could disturb	mitigation included in sustainable	
		construction of the	or displace breeding birds.	infrastructure specifications. See	



		route.		Sections 2 & 3 of Management Agreement for details. To avoid disturbance or damage impacts on breeding birds or their nests all construction works will take place between 1 July to 1 April and providing that there are no nesting birds in the location of the works.	
Stone infill in small areas of wet acid grassland or rush gutters (but not on sensitive features)	Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Loss and/or degradation of nesting habitat at infill sites.	Potential direct loss of habitat available for nesting or breeding birds.	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details. Area of habitat affected is several hundred square metres maximum. This is considered negligible within a SPA >140,000 ha and unlikely to impact on the breeding success of the SPA breeding bird assemblage.	No
		Disturbance to breeding birds from use of the route where infill sites occur.	Disturbance through vehicle usage.	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details. Shooting activities occur from August to November and therefore avoid disturbance impacts to SPA bird assemblage.	No
		Disturbance to	Construction works and	Yes, avoidance measures and\or	No



		breeding birds during construction of the infill sites.	vehicle use could disturb or displace breeding birds.	mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details. To avoid disturbance or damage impacts on breeding birds or their nests all construction works will take place between 1 July to 1 April and providing that there are no nesting birds in the location of the works.	
Sunken and Semi – sunken butts, hurdle butts and temporary free standing butts (7 lines)	Blanket bog SAC European Dry heath SAC	Loss of habitat by butt construction Loss of or degradation of habitat by butt drainage	Construction of the butt footprint may cause permanent loss of habitat Drainage of the butts may result in disruption of hydrological processes within the peat leading to degradation of habitat	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details. Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	Uncertain
		Loss of or degradation of habitat by drainage pipe installation	Pipe installation may result in disruption of hydrological processes within the peat leading to degradation of habitat	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	Uncertain
		Loss of or degradation of	Access routes to the butts (from pedestrians and	Yes, avoidance measures and\or mitigation included in sustainable	Uncertain



	habitat by access to butts	vehicles accessing the butts) may cause loss of or degradation of habitat	infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	
	Loss of or degradation of habitat by access to butts as a result of disruption of hydrological processes	Access routes to the butts (from pedestrians and vehicles accessing the butts) may cause loss of or degradation of habitat by disrupting hydrology	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	Uncertain
	Loss of or degradation of habitat by access to butts from vehicles used during construction of the butts.	Access to the butts from vehicles used to install the butts may cause loss of or degradation of habitat	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	Uncertain
	Loss and/or degradation from damage from vehicles used during construction of the butts disrupting hydrology	Loss of or degradation of habitat by access to butts as a result of disruption of hydrological processes by construction vehicles during installation of butts	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details.	Uncertain
Breeding populations of SPA birds: European	Loss and/or degradation of	Potential direct loss of habitat available for	Yes, avoidance measures and\or mitigation included in sustainable	No



Golden Plover, Merlin,	nesting habitat at	nesting or breeding birds.	infrastructure specifications. See	
Peregrine Falcon, Hen	butt locations.		Sections 2 & 3 of Management	
Harrier			Agreement for details. Area of habitat	
			affected is as follows:	
			1.8 x 1.8 = 3.24 m ²	
			9 lines of butts with 10 butts each	
			Total area of babitat offertail 202	
			Total area of habitat affected = 292	
			square metres.	
			This is considered inconsequential and	
			unlikely to impact on the breeding	
			success of the SPA breeding bird	
			assemblage.	
	Disturbance to	Disturbance through	Yes, avoidance measures and\or	No
	breeding birds from	vehicle usage.	mitigation included in sustainable	
	use of the route		infrastructure specifications. See	
	where butts occur.		Sections 2 & 3 of Management	
			Agreement for details. Shooting	
			activities occur from August to	
			November and therefore avoid	
			disturbance impacts to SPA bird	
			assemblage.	
	Disturbance to	Construction works and	Yes, avoidance measures and\or	No
	breeding birds during	vehicle use could disturb	mitigation included in sustainable	
	construction of the	or displace breeding birds.	infrastructure specifications. See	
	butts.		Sections 2 & 3 of Management	
			Agreement for details. To avoid	



				disturbance or damage impacts on breeding birds or their nests all construction works will take place between 1 July to 1 April and providing that there are no nesting birds in the	
				location of the works.	
Water scrapes	European Dry heath SAC	Loss of habitat by scrape construction	Construction of the scrape footprint may cause permanent loss of habitat	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details. All machinery used in the construction of scrapes will be low ground pressure vehicles of 2-5 psi to reduce any impacts to the ground and vegetation. Translocated turves will be used to re-vegetate areas of bare peat nearby to avoid any loss of habitat.	No
	Breeding populations of SPA birds: European Golden Plover, Merlin, Peregrine Falcon, Hen Harrier	Disturbance to breeding birds during construction of the scrapes.	Construction works and vehicle use could disturb or displace breeding birds.	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See Sections 2 & 3 of Management Agreement for details. Operations will avoid sensitive locations and\or be undertaken from 1 July to 1 April to avoid the bird breeding season.	No
Grit stations	Blanket bog SAC European Dry heath	Loss of habitat by grit station placement	Grit station footprint may cause permanent loss of habitat	Yes, avoidance measures and\or mitigation included in sustainable infrastructure specifications. See	No



	1	T	T		,
	SAC			Sections 2 & 3 of Management	
				Agreement for details. Grit is laid into a	
				small tray laid on the ground to avoid	
				any permanent loss of habitat.	
		Loss of or	Access to the grit stations	Yes, avoidance measures and\or	No
		degradation of	(from pedestrians and	mitigation included in sustainable	
		habitat by access to	vehicles) for topping up	infrastructure specifications. See	
		grit stations	purposes may cause loss of	Sections 2 & 3 of Management	
			or degradation of habitat	Agreement for details. Grit is laid into a	
				small tray laid on the ground to avoid	
				any permanent loss of habitat.	
	Breeding populations of	Disturbance to	Topping up works and	Yes, avoidance measures and\or	No
	SPA birds: European	breeding birds during	vehicle use could disturb	mitigation included in sustainable	
	Golden Plover, Merlin,	topping up of the grit	or displace breeding birds.	infrastructure specifications. See	
	Peregrine Falcon, Hen	stations.		Sections 2 & 3 of Management	
	Harrier			Agreement for details. Operations will	
				avoid sensitive locations and\or be	
				undertaken from 1 July to 1 April to	
				avoid the bird breeding season.	
Translocation of small	European Dry heath	Loss of habitat by	Translocation may cause	Yes, avoidance measures and\or	No
areas of dry heath or	SAC	translocation method	permanent loss of habitat	mitigation included in sustainable	
acid grassland				infrastructure specifications. See	
vegetation				Sections 2 & 3 of Management	
				Agreement for details. Heathland	
				turves will be translocated into nearby	
				areas of acid grassland in accordance	
				with the careful storage, transport and	
				placement specifications in the	
				Management Agreement to reduce	



				potential failure of turves to re-	
				establish. Areas likely to be	
				translocated will to very small, totalling	
				several hundred square metres or less	
				within a SAC > 100,000 Ha. This is	
				considered inconsequential given the	
				likely success of the translocation	
				methodology with this habitat type.	
	Breeding populations of	Disturbance to	Translocation works and	Yes, avoidance measures and\or	No
	SPA birds: European	breeding birds during	vehicle use could disturb	mitigation included in sustainable	
	Golden Plover, Merlin,	translocation works	or displace breeding birds.	infrastructure specifications. See	
	Peregrine Falcon, Hen			Sections 2 & 3 of Management	
	Harrier			Agreement for details. Operations will	
				avoid sensitive locations and be	
				undertaken from 1 July to 1 April to	
				avoid the bird breeding season.	
4 Vegetation Manage	ement Principles				
Heather beetle	Blanket bog SAC	Loss and/or	Degradation of Sphagnum	Yes, avoidance measures and\or	No
Management on		degradation of	layer and peat in fully –	mitigation included in vegetation	
blanket bog		habitats	functioning very active	management principles. See Section 4	
			bogs	of Management Agreement for details.	
				On areas of very active blanket bog	
				showing no signs of recovery any	
				heather beetle management proposals	
				will considered on an individual basis by	
				Natural England and will be subject to	
				agreement by Natural England before	
				any works commence. All machinery	
				used will be low ground pressure	



		I	I		I
				vehicles with 2-5psi to reduce impacts	
				on the habitat.	
	Breeding populations of	Loss and/or	Potential direct loss of	Yes, avoidance measures and\or	No
	SPA birds: European	degradation of	habitat available for	mitigation included in vegetation	
	Golden Plover, Merlin,	nesting habitat at	nesting or breeding birds.	management principles. See Section 4	
	Peregrine Falcon, Hen	heather beetle		of Management Agreement for details.	
	Harrier	management sites.		On areas of very active blanket bog	
		_		showing no signs of recovery any	
				heather beetle management proposals	
				will considered on an individual basis by	
				Natural England and will be subject to	
				agreement by Natural England before	
				any works commence. All machinery	
				used will be low ground pressure	
				vehicles of 2-5 psi to reduce impacts on	
				the habitat. Any burning of heather	
				beetle damaged sites agreed with	
				Natural England on an individual basis	
				will take place between 1 October and	
				15 April to avoid the most sensitive	
				period of the bird nesting season.	
				Alternatively, cutting for the	
				regeneration of such beetle damaged	
				areas will take place between 1 July and	
				1 April to avoid impacts on breeding	
				birds.	
6 Monitoring	1				
Establishment of two	Blanket bog SAC	Loss and/or	Degradation of Sphagnum	Yes, avoidance measures and\or	No
heather protection		degradation of	layer and peat in fully –	mitigation included in Section 6 of	1
neather protection		acgradation of	layer and peat in rany	mingation malaca in Section 6 of	



trial plots (each 20 x	habitats	functioning very active	Management Agreement. All machinery	
20m)		bogs	used will be low ground pressure	
			vehicles with 2-5psi to reduce impacts	
			on the habitat. In addition, the creation	
			of ridges in the trial plots will be done	
			to avoid impacts on existing blocked	
			grips. The two trial plots only cover an	
			area of 800 square metres and this this	
			considered inconsequential in a	
			European site totalling 103,000 Ha.	
			Yes, avoidance measures are secured.	No
			The works will take place between 1	
			July and 1 April to avoid the bird	
			nesting season.	



Conclusion:

☐ The plan or project alone is likely to have a significant effect (or may have a significant effect) on the following qualifying features of the European Site; [List Features and then go to C.3]

North Pennines Moors SAC qualifying features

4030 European dry heaths

7130 Blanket bogs*

7220 Petrifying Springs with tufa formation (Cratoneureon)*

7230 Alkaline Fens

Priority habitats or species are denoted by an asterisk (*)

(The plan or project alone is unlikely to have a significant effect on the qualifying features of the North Pennines SPA)

C2.2 Risk of Significant Effects in-combination with effects from other plans and projects

Not applicable.

C3. Overall Screening Decision for the Plan/Project

On the basis of the details submitted, Natural England has considered the plan or project under Regulation 21(1) or 61(1)(a) of the Habitats Regulations and made an assessment of whether it will have a likely significant effect on a European site, either alone or in combination with other plans and projects.

In light of sections C1 and C2 of this assess	sment above, Natural England ha	S
concluded:		

As the plan or project is likely to have significant effects (or may have significant effects) on some or all of the Qualifying Features of the European Site(s) 'alone', further Habitats Regulations assessment of the project 'alone' is required [go to Part D].



PART D: Appropriate Assessment and Conclusions on Site Integrity

D1. Scope of Appropriate Assessment

In light of the screening decision above in section C3, this section contains the appropriate assessment of the implications of the plan or project in view of the conservation objectives for the European Site(s) at risk.

The Sites and the Qualifying Feature for which significant effects (whether 'alone' or 'in combination') are likely or cannot be ruled out and which are initially relevant to this appropriate assessment are;

4030 European dry heaths

7130 Blanket bogs*

7220 Petrifying Springs with tufa formation (Cratoneureon)*

7230 Alkaline Fens

Priority habitats or species are denoted by an asterisk (*)

Where likely significant effects have been identified 'alone' the appropriate assessment will initially be undertaken 'alone' (**Go to D.2**). Any residual effects might *subsequently* need to be considered in combination.

D.1.1 Contextual statement on the current status, influences, management and condition of the European Site and those Qualifying features affected by the plan or project

The North Pennines Moors SAC covers large areas of the uplands in the North Pennines (SAC: >103,000 ha). These large areas support a range of habitat types, but predominantly comprise heather moorland, either as blanket bog or drier heathland, with smaller associated areas of wetland, grassland, bracken, scrub, woodland and cliff. There are also a range of land uses, although grazing and driven grouse shoots are the predominant types.

The Management Agreement covers the Wemmergill Estate which is owned and managed by Wemmergill Moor Ltd. The Estate is approximately 7,000 hectares in size and run as an intensive grouse shoot and used for livestock production. It occupies most of the Lune Forest SSSI.



The land is currently within two Higher Level Stewardship (HLS) Agreements. A key feature of these agreements has been the funding of extensive grip blocking works across large areas of blanket bog and the site has been assessed as mainly in unfavourable recovering condition. Under these agreements approximately 1100 ha of blanket bog is subject to burning on a rotation of 15 – 17 years. Other areas of blanket bog have also been impacted by vehicle movements to access shooting butts and for general estate management purposes.

The Wemmergill Estates Ltd Management Agreement (2017 – 2042) subject to this assessment sets out a shared vision and multiple outcomes for grouse moor management, farming, biodiversity and the natural environment. It also includes a programme of moorland infrastructure and management\restoration works across the Estate.

The new Management Agreement looks to deliver further grip blocking works and to cease any rotational burning on blanket bog by shifting management for restoration purposes by one-off cutting or burning. It also includes proposals for strategically placed sustainable infrastructure works such as mesh and wooden boardwalk tracks to reduce the impact of vehicles on sensitive blanket bog features. It is envisaged that these works will assist with the maintenance or restoration of qualifying features of the site.

D2 Assessment of potential adverse effects considering the plan or project 'alone'

D2.1 Assessment of potentially adverse effects <u>without</u> additional mitigation measures

The results of this assessment are shown in Table D2.1



Table D2.1 Appropriate Assessment of sustainable infrastructure specifications – Mesh and timber boardwalks for vehicles and pedestrians

Qualifying feature	Potential effect	Magnitude of impact / residual effect	Adverse Effect on Site Integrity?	Degree of uncertainty	Avoidance and/or reduction measures (mitigation) to include who will implement checks/controls	Residual effects?
Blanket Bog	Loss and/or degradation from damage from vehicles used during installation of boardwalk and mesh track sections.	There is a limited risk that the use of Argocats with low ground pressure tyres of 2-5 psi could cause some compaction of the upper layers of the peat and possibly some erosion of the peat surface. However, the impact is considered very small in the context of current levels of vehicle use and the condition of existing routes in the area. The risk of compaction of the peat and damage to the vegetation caused during the installation of the mesh is considered to be inconsequential.	Low The installation does not require the use of heavy vehicles or repeated visits. This low level of access is unlikely to have an adverse effect on integrity. All vehicles used will be low ground pressure vehicles such as argocats and quad bikes with 2-5 psi to reduce impacts on peat structure and hydrological integrity and\or vegetation to a minimum. In addition, no exact same area will be passed over by such traffic.	Low	The installation does not require the use of heavy vehicles or repeated visits. The installation works will be selfmonitored by the head gamekeeper of Wemmergill Moor Ltd. Checks by Natural England will be carried out in accordance with Section 6 of the Management Agreement to ensure that no operations likely to adversely affect site integrity take place.	None



Blanket	Loss and/or	There is a limited risk that the use	Low	Low	The installation does not require the use	None
Bog	degradation	of Argocats could cause some			of heavy vehicles or repeated visits.	
	from	compaction of the upper layers of	The installation does not			
	damage	the peat and possibly some erosion	require the use of heavy		The installation works will be self-	
	from	of the peat surface thus affecting	vehicles or repeated visits.		monitored by the head gamekeeper of	
	vehicles	localised hydrological functioning.	This low level of access is		Wemmergill Moor Ltd. Checks by Natural	
	used during	However, the impact is considered	unlikely to have an adverse		England will be carried out in accordance	
	installation	very small in the context of current	effect on integrity.		with Section 6 of the Management	
	of	levels of vehicle use and the			Agreement to ensure that no operations	
	boardwalk	condition of existing routes in the	All vehicles used will be low		likely to adversely affect site integrity	
	and mesh	area.	ground pressure vehicles of 2-		take place.	
	tracks		5 psi such as argocats and			
	potentially	The risk of compaction of the peat	quad bikes to reduce impacts		No drainage is required for the route	
	disrupting	and adverse impacts on	on peat structure and		therefore reducing likelihood of an	
	hydrology.	hydrological functioning caused	hydrological integrity and\or		adverse effect on integrity.	
		during the installation of the mesh	vegetation to a minimum. In			
		is considered to be inconsequential.	addition, no exact same area			
			will be passed over by such			
		Any slight residual impact would be	traffic.			
		offset by the gains in the condition				
		that the mesh track would provide				
		by protecting the hydrology of the				
		wider area from further impacts				
		into the future.				



Blanket	Loss and/or	There is a limited risk that the use	Low	Low	The use of vehicles on the mesh and	None
Bog	degradation	of Argocats travelling on the mesh			boardwalk will be restricted to Argocats	
	underneath	and boardwalk could cause some	Extensive areas of bog are		and quad bikes.	
	the mesh	compaction of the upper layers of	currently being impacted by			
	and timber	the peat and possibly some erosion	vehicle movements. These are		The mesh and boardwalk will be subject	
	boardwalk	of the peat surface. However, the	currently unquantified but		to a 5 year time limit. Progress will be	
	footprint	impact is considered very small in	likely to be in the order of 20-		reviewed by NE and the Estate during	
	(e.g. light	the context of current levels of	30 ha approximately.		this period and remedial measures will	
	interception	vehicle use and the condition of			be considered if the expected outcomes	
	by	existing routes in the area.	The proposed mesh would		are not being achieved.	
	boardwalk).		eliminate the above impacts			
		The risk of compaction of the peat	and would equate to:			
		and damage to the vegetation				
		caused during the usage of the	12,400 x2.5 = 31,000m			
		mesh is considered to be	squared under mesh and			
		inconsequential.	boardwalk. This is 3.1ha and			
			represents a significantly			
		The mesh is open to light and	smaller area of blanket bog			
		rainfall but the potential loss of	habitat being impacted by			
		vegetation directly below the	vehicles compared to the			
		plastic mesh and boardwalk could	current situation.			
		amount to 50%. With regard to the				
		mesh, this is likely to be an	A previously consented mesh			
		overestimate as plants should	track at Parish (2014) was			
		ultimately grow up through the	visited several times by			
		mesh and cover a greater area.	Natural England during 2016			
			and showed that growth of			



		The short boardwalk sections are	bog plants through the plastic			
		less open to light and rainfall.	mesh was good after two			
		, ,	years of installation and usage			
		However, they are designed with	_			
		large gaps and are predominantly	by argocats over two shooting			
		raised above the surface. This	seasons.			
		increases light penetration and				
		water flow to surface vegetation				
		and peat. Although the impacts of				
		boardwalk sections may be greater				
		than the mesh the boardwalk is				
		restricted to very short, localised				
		sections and the impacts are				
		considered inconsequential.				
		Any slight residual impact would be				
		offset by the gains in the condition				
		that the mesh track would provide				
		by protecting the wider area from				
		further impacts into the future.				
Blanket	Loss and/or	There is a limited risk that the use	Low	Low	The number of passes by the low ground	None
Bog	degradation	of Argocats travelling on the mesh			pressure vehicles will be restricted to	
	from	and boardwalk could cause some	Repeated vehicle use along		reduce impacts to a minimum. The other	
	vehicles	localised degradation of the surface	the mesh could result in the		primary purpose of the works is to	
	using the	vegetation. This risk is negated by	compounding of peat and		provide adequate pedestrian access.	
	mesh route.	the measures of mitigation	subsequent peat erosion and			
		proposed in column 6.	loss of vegetation or		The mesh and boardwalk will be subject	
		F - F 35 25	disruption of blanket bog		to a 5 year time limit. Progress will be	
			development. However this is		reviewed by NE and the Estate during	
			an improvement on the		this period and remedial measures will	



	1					T
			current impacts – please see		be considered if the expected outcomes	
			section above.		are not being achieved.	
			The routes have been			
			selected to avoid the wetter			
			and most sensitive areas of			
			blanket bog and it is			
			considered that the drier			
			areas selected are likely to be			
			more sustainable in			
			supporting limited vehicle			
			access to the butts. The 5 year			
			time limit acts as a safeguard			
			if this prediction proves			
			incorrect.			
Blanket	Loss and/or	Some sections of boardwalk are	Low	Low	The number of passes by the low ground	None
Bog	degradation	elevated across gullies and			pressure vehicles will be restricted to	
	vehicle	therefore not disrupting water	The routes have been		reduce impacts to a minimum. The other	
	damage	movement.	selected to avoid the wetter		primary purpose of the works is to	
	along the		and most sensitive areas of		provide adequate pedestrian access.	
	mesh route	The mesh routes avoid the wettest	blanket bog and it is			
	disrupting	depressions within blanket bog and	considered that the drier		The mesh and boardwalk will be subject	
	adjacent	also run perpendicular to the	areas selected are likely to be		to a 5 year time limit. Progress will be	
	hydrology	natural slope which limits down	more sustainable in		reviewed by NE and the Estate during	
	(e.g. mesh	slope hydrological impacts on the	supporting limited vehicle		this period and remedial measures will	
	sinks into	blanket bog.	access to the butts. The 5 year		be considered if the expected outcomes	
	peat).	_	time limit acts as a safeguard		are not being achieved.	
		Some compaction of the peat	if this prediction proves			
		directly below the mesh may occur;	incorrect.			



		this may affect water movement				
		through the peat in the upper				
		layers (acrotelm) of the bog in the				
		immediate vicinity of the mesh.				
		However, the mesh should help to				
		spread the weight of any vehicles				
		and prevent areas of rutting or				
		uneven surfaces which would lead				
		to greater disruption of the				
		hydrology of the area.				
		The installation of the mesh and				
		associated restrictions on vehicle				
		type and frequency are considered				
		to be an improvement from the				
		current vehicle access situation.				
		The plastic mesh could potentially				
		sink into the blanket bog. However,				
		it is currently unknown at what				
		level of usage the mesh would				
		actually sink. It is considered that				
		the low frequency of vehicle use				
		will avoid this situation – please see				
		proposed mitigation in section 4.				
Blanket	Degradation	If positioned too low the cutter	Low	Low	Mitigation not required – see column 4.	None
Bog	due to	could damage vegetation mounds				
	vegetation	and kill the component species. The	The natural vegetation of the			
	flailing and	spreading of arising's could result in	blanket bog areas are			



	spreading of	the increased establishment of	Cottongrass, Sphagnum			
	arising's.	heather as opposed to other	mosses and a lower cover of			
		blanket bog species.	Heather. Therefore it is			
			anticipated that a substantial			
			proportion of vegetation re-			
			establishment would			
			comprise desirable blanket			
			bog species rather than			
			heather.			
			The cutting of the vegetation			
			will only be conducted where			
			absolutely necessary to			
			ensure that the mesh is laid			
			correctly. It is considered that			
			any impacts would be very			
			localised and short term and			
			therefore inconsequential.			
Blanket	Degradation	There is a limited risk that	Low	Low	Mitigation not required – see column 4.	None
Bog	due to	chemicals in the tantalised timber				
	potential	used for the short boardwalk	Given the small scale and			
	leaching of	sections could leach into the	localised nature of these			
	chemicals	blanket bog. However, given the	structures it is considered			
	from treated	small scale and localised nature of	that any such impacts are			
	timber used	these structures it is considered	likely to be small scale,			
	for	that any such impacts are likely to	transient and inconsequential			
	boardwalk	be small scale, transient and	over the long-term.			
	sections.	inconsequential over the long-term.				
Petrifying	Loss and/or	Compaction, rutting and exposed	Low	Low	Mitigation not required – see column 4.	None



springs	degradation from damage from vehicles used during installation of raised boardwalk.	soil as a result of vehicle movement. Damage/destruction of vegetation as a result of vehicle movement.	The installation does not require the use of heavy vehicles or repeated visits. This low level of access is unlikely to have an adverse effect on integrity.			
Petrifying springs	Loss and/or degradation underneath raised timber boardwalk footprint (e.g. light interception by boardwalk).	Possible temporary/permanent loss of some vegetation under raised boardwalk footprint	Low Only very small areas of vegetation may be covered by raised timber boardwalk. These structures have large gaps which will allow light and rainfall penetration. The impacts are therefore considered inconsequential.	Low	The boardwalks will be subject to a 5 year time limit. Progress will be reviewed by NE and the Estate during this period and remedial measures will be considered if the expected outcomes are not being achieved.	None
Petrifying springs	Loss and/or degradation from vehicles using the boardwalk.	Repeated vehicle use could result in degradation of the vegetation and prevent regeneration. The pounding effect could result in increased areas of bare soil and loss through erosion.	The boardwalk is a rigid structure and unlikely to result in the pounding effect. It is considered that vehicle access on the boardwalk is	Low	The use of vehicles on the boardwalks will be restricted to Argocats and quad bikes. The boardwalk will be subject to a 5 year time limit. Progress will be reviewed by NE and the Estate during this period and	None



			likely to be sustainable. The time limit acts as a safeguard		remedial measures will be considered if the expected outcomes are not being	
			if this prediction proves incorrect.		achieved.	
Alkaline Fens	Loss and/or degradation from damage from vehicles used during installation of raised boardwalk.	Compaction, rutting and exposed soil as a result of vehicle movement. Damage/destruction of vegetation as a result of vehicle movement.	Low The installation does not require the use of heavy vehicles or repeated visits. This low level of access is unlikely to have an adverse effect on integrity.	Low	Mitigation not required – see column 4.	None
Alkaline Fens	Loss and/or degradation underneath raised timber boardwalk footprint (e.g. light interception by boardwalk).	Possible temporary/permanent loss of some vegetation under raised boardwalk footprint	Only very small areas of vegetation may be covered by raised timber boardwalk. These structures have large gaps which will allow light and rainfall penetration. The impacts are therefore considered inconsequential.	Low	The boardwalks will be subject to a 5 year time limit. Progress will be reviewed by NE and the Estate during this period and remedial measures will be considered if the expected outcomes are not being achieved.	None
Alkaline Fens	Loss and/or degradation	Repeated vehicle use could result in degradation of the vegetation and	Low	Low	The use of vehicles on the boardwalks will be restricted to Argocats and quad	None



	from vehicles using the boardwalk.	prevent regeneration. The pounding effect could result in increased areas of bare soil and loss through erosion.	The boardwalk is a rigid structure and unlikely to result in the pounding effect. It is considered that vehicle access on the boardwalk is likely to be sustainable. The time limit acts as a safeguard		bikes. The boardwalk will be subject to a 5 year time limit. Progress will be reviewed by NE and the Estate during this period and remedial measures will be considered if the expected outcomes are not being	
			if this prediction proves incorrect.		achieved.	
European Dry Heaths	Loss and/or degradation from damage from vehicles used during installation of boardwalk and mesh track sections.	Compaction, rutting and exposed soil as a result of vehicle movement. Damage/destruction of vegetation as a result of vehicle movement.	The installation does not require the use of heavy vehicles or repeated visits. This low level of access is unlikely to have an adverse effect on integrity.	Low	Mitigation not required – see column 4.	None
European Dry Heaths	Loss and/or degradation underneath the mesh and timber boardwalk	Possible temporary/permanent loss of some vegetation under mesh footprint	Only very small areas of heath will be covered by mesh or timber boardwalk. These structures have large gaps	Low	The mesh and boardwalk will be subject to a 5 year time limit. Progress will be reviewed by NE and the Estate during this period and remedial measures will be considered if the expected outcomes are not being achieved.	None



	footprint (e.g. light interception by boardwalk).		which will allow light and rainfall penetration. The impacts are therefore considered inconsequential.			
European Dry Heaths	Loss and/or degradation from vehicles using the mesh route.	Repeated vehicle use could result in degradation of the vegetation and prevent regeneration. The pounding effect could result in increased areas of bare soil and loss through erosion.	Dry Heath can support more frequent vehicle access than blanket bog. It is considered that vehicle access on the mesh is likely to be sustainable. The time limit acts as a safeguard if this prediction proves incorrect.	Low	The use of vehicles on the mesh and boardwalk will be restricted to Argocats and quad bikes. The mesh and boardwalk will be subject to a 5 year time limit. Progress will be reviewed by NE and the Estate during this period and remedial measures will be considered if the expected outcomes are not being achieved.	None



Table D2.1 Appropriate Assessment of sustainable infrastructure specifications – Sunken and semi-sunken butts, hurdle butts and temporary free standing butts

Qualifying feature	Potential effect	Magnitude of impact / residual effect	Adverse effect on Site Integrity	Degree of uncertainty	Avoidance and\or reduction measures (mitigation) to include who will implement checks/controls	Residual effects?
Blanket Bog	Loss of habitat by butt construction	Assuming all butts are on deep peat and of sunken or semi – sunken type: Butt footprint = 1.8 x 1.8 = 3.24 m ² 9 lines of butts with 10 butts each Total area of habitat affected = 292 square metres.	These impacts should be considered in relation to the large scale of the site. Butt dimensions totalling an area of 292 square metres for the nine lines of butts within a site of 103,000 Ha. This is considered inconsequential.	Low	Works will be subject to supervision by head gamekeeper and compliance checks by Natural England in accordance with Section 6 of the Management Agreement. Remedial measures will be implemented if required.	None. The translocation associated with sunken and semi sunken butts is to existing blanket bog (albeit degraded) so will facilitate restoration, but does not create new habitat, i.e. it is not complete mitigation, but the impacts are considered inconsequential.
Blanket Bog	Loss of or degradation of habitat by butt drainage	Assuming all butts are on deep peat and of sunken or semi –	Low	Low	All butts to be drained with a	None.



sunken type:	Drainage can reduce the	buried pipe (up to
	water table across a wide	25 m long for each
Probably the main impact is that	area, if it removes large	butt but usually
there will be a local depression of	volumes of water. It is	shorter than this)
the water table around each butt.	considered that the scale	fitted with a
In order to quantify the magnitude	of drainage from the nine	plastic collar to
of this effect it is assumed that a	lines of butts (450 square	promote seepage
zone of 5 m surrounding each butt	metres) is insignificant	of water into the
is impacted.	impacts and	local peat rather
	inconsequential in relation	than promote
Total area of habitat impacted	to the large scale of the	water flow. The
beyond the immediate 292m	site (103,000 Ha).	pipes will be
affected (see previous row) = 90 x 5		discharged only
= 450 square metres		into a natural
		hollow or grip (not
		a water course) to
		avoid net export
		of water from the
		bog.
		·
		Also installation of
		impermeable
		membrane around
		butts and plastic
		collar around
		pipes to
		encourage water
		to disperse into
		local peat and to



					avoid water flow. Works will be subject to compliance checks by Natural England and remedial measures implemented if required.	
Blanket Bog	Loss of or degradation of habitat by drainage pipe installation	Length of drainage pipe given as a maximum of 25 m, but generally will be much shorter. Assuming average length of 12.5 m and a 1 m width: 12.5 x 1 = 12.5 m ² Ninety butts: 90 x 12.5 = 1125m ²	These impacts should be considered in relation to the large scale of the site. Drainage pipe dimensions totalling an area of 1125 square metres for the nine lines of butts within a site of 103,000 Ha. This is considered inconsequential.	Low	The original peat will be backfilled and topped with original turves. Works will be subject to compliance checks by Natural England and remedial measures implemented if required.	None. Surface vegetation should remain largely intact and the acrotelm is only likely to be disrupted in the short term. Long term there should be no residual impact.
Blanket Bog	Loss of or degradation of habitat by access to butts	There is considerable variability in how much traffic (pedestrian and vehicular) Blanket Bog vegetation can support before being damaged, ranging from total and permanent	These impacts should be considered in relation to the large scale of the site.	Low	A suspension clause for ongoing vehicle use such that if access to the butts from	None



loss of vegetation to localised and	Small temporary areas of	shooting activities
temporary rutting.	rutting within a site of	creates any
temporary rutting.	103,000 Ha is considered	stretches of bare
Based on the current impact of	inconsequential.	peat (more than 5
vehicles on these lines of butts and	meonsequential.	square metres inn
the suspension clause offered it is		a continuous
considered most likely that only		stretch) then use
very small, localised areas of peat		of vehicles for
may be rutted on occasions. This is		shooting party
difficult to quantify.		purposes will be
anneare to quartify.		suspended for the
		remainder of the
		shooting season.
		3110011118 30030111
		If required, cotton
		grass and
		Sphagnum species
		will be planted on
		areas on bare peat
		to speed recovery.
		Works will be
		subject to
		compliance checks
		by Natural England
		and remedial
		measures
		implemented if
		required.



Blanket	Loss of or degradation of	There is considerable variability in	Low	Low	A suspension	None
Bog	habitat by access to butts	how much traffic (pedestrian and			clause for ongoing	
	as a result of disruption of	vehicular) Blanket Bog vegetation	These impacts should be		vehicle use such	
	hydrological processes	can support before being damaged,	considered in relation to		that if access to	
		ranging from total and permanent	the large scale of the site.		the butts from	
		loss of vegetation to localised and	Small temporary areas of		shooting activities	
		temporary rutting.	rutting within a site of		creates any	
			103,000 Ha is considered		stretches of bare	
		Based on the current impact of	inconsequential.		peat (more than 5	
		vehicles on these lines of butts and			square metres inn	
		the suspension clause offered it is			a continuous	
		considered most likely that only			stretch) then use	
		very small, localised areas of peat			of vehicles for	
		may be rutted on occasions. This is			shooting party	
		difficult to quantify.			purposes will be	
					suspended for the	
					remainder of the	
					shooting season.	
					If required, cotton	
					grass and	
					Sphagnum species	
					will be planted on	
					areas on bare peat	
					to speed recovery.	
					Works will be	



					subject to compliance checks by Natural England and remedial measures implemented if required.	
Blanket Bog	Loss of or degradation of habitat by access to butts from vehicles used during construction of the butts.	There is considerable variability in how much traffic (pedestrian and vehicular) Blanket Bog vegetation can support before being damaged, ranging from total and permanent loss of vegetation to localised and temporary rutting. Based on the current impact of vehicles on these lines of butts and the suspension clause offered it is considered most likely that only very small, localised areas of peat may be rutted on occasions. This is difficult to quantify.	These impacts should be considered in relation to the large scale of the site. Small temporary areas of rutting within a site of 103,000 Ha is considered inconsequential.	Low	All machinery to be used in the butt construction will be low ground pressure vehicles and no exact same area of land will be passed over by any construction traffic. If required, cotton grass and Sphagnum species will be planted on areas on bare peat to speed recovery. Works will be subject to compliance checks	None



					and remedial measures implemented if required.	
Blanket	Loss and/or degradation from damage from vehicles used during construction of the butts disrupting hydrology	There is considerable variability in how much traffic (pedestrian and vehicular) Blanket Bog vegetation can support before being damaged, ranging from total and permanent loss of vegetation to localised and temporary rutting. Based on the current impact of vehicles on these lines of butts and the suspension clause offered it is considered most likely that only very small, localised areas of peat may be rutted on occasions. This is difficult to quantify	These impacts should be considered in relation to the large scale of the site. Small temporary areas of rutting within a site of 103,000 Ha is considered inconsequential.	Low	All machinery to be used in the butt construction will be low ground pressure vehicles and no exact same area of land will be passed over by any construction traffic. If required, cotton grass and Sphagnum species will be planted on areas on bare peat to speed recovery. Works will be subject to compliance checks by Natural England and remedial measures	None



					implemented if required.	
European dry heath	Loss of habitat by butt construction	If all butts are on dry heath and of sunken or semi – sunken type: . Butt footprint = 1.8 x 1.8 = 3.24 m ² 9 lines of butts with 10 butts each Total area of habitat affected = 292 square metres.	These impacts should be considered in relation to the large scale of the site. Butt dimensions totalling an area of 292 square metres for the nine lines of butts within a site of 103,000 Ha. This is considered inconsequential.	Low	Works will be subject to supervision by head gamekeeper and compliance checks by Natural England in accordance with Section 6 of the Management Agreement. Remedial measures will be implemented if required.	None. The translocation associated with sunken and semi sunken butts is to existing acid grassland habitat or other site fabric so will facilitate restoration.
European dry heath	Loss of or degradation of habitat by access to butts	Depending on how much traffic (pedestrian and vehicular) occurs in a particular location dry heath vegetation is usually more robust than blanket bog and can support higher levels of traffic before being damaged. Based on the current impact of vehicles on these lines of butts and the suspension clause offered it is	These impacts should be considered in relation to the large scale of the site. Small temporary areas of rutting within a site of 103,000 Ha is considered inconsequential.	Low	All machinery to be used in the butt construction will be low ground pressure vehicles and no exact same area of land will be passed over by any construction traffic.	None



		considered most likely that only very small, localised areas of may be impacted on occasions. This is difficult to quantify			Works will be subject to compliance checks by Natural England and remedial measures implemented if required.	
European dry heath	Loss of or degradation of habitat by access to butts from vehicles used during construction of the butts.	Depending on how much traffic (pedestrian and vehicular) occurs in a particular location dry heath vegetation is usually more robust than blanket bog and can support higher levels of traffic before being damaged. Based on the current impact of vehicles on these lines of butts and the suspension clause offered it is considered most likely that only very small, localised areas of may be impacted on occasions. This is difficult to quantify	These impacts should be considered in relation to the large scale of the site. Small temporary areas of rutting within a site of 103,000 Ha is considered inconsequential.	Low	All machinery to be used in the butt construction will be low ground pressure vehicles and no exact same area of land will be passed over by any construction traffic. Works will be subject to compliance checks by Natural England and remedial measures implemented if required.	None



D2.2 Where necessary, assessment of potentially adverse effects <u>with</u> additional mitigation measures underpinned by legally enforceable conditions/restrictions

Not necessary. The management Agreement contains a series of principles, specifications and legal terms and conditions to avoid potentially adverse effects. Therefore no additional mitigation measures underpinned by legally enforceable conditions/restrictions are required.

Following D.2.1 - D.2.2, where a conclusion of no adverse effect on integrity 'alone' can be ascertained, any residual effects from the project (those which are 'likely' but which are not 'significant' alone will need to be considered 'in combination' with other plans and projects (**Go to D.3**).

D3 Assessment of potentially adverse effects considering the project 'in combination' with other plans and projects [complete only where applicable]

D3.1 Assessment of potentially adverse effects <u>without</u> additional mitigation measures

Not required as no potentially adverse residual effects have been identified. The Management Agreement contains a series of principles, specifications and legal terms and conditions to avoid potentially adverse effects.

D3.2 Where necessary, assessment of potentially adverse effects <u>with</u> additional mitigation measures underpinned by legally enforceable conditions/restrictions

Not required as no potentially adverse residual effects have been identified. The Management Agreement contains a series of principles, specifications and legal terms and conditions to avoid potentially adverse effects. Therefore no additional mitigation measures underpinned by legally enforceable conditions/restrictions are required.



D4. Conclusions on site Integrity

Because the plan/project is not wholly directly connected with or necessary to the management of the European site and is likely to have a significant effect on that site (either alone or in combination with other plans or projects), Natural England carried out an Appropriate Assessment as required under Regulation 21 or 61 of the Habitats Regulations 2010 to ascertain whether or not it is possible to conclude that there would be no adverse effect on the integrity of a European Site(s).

Natural England has concluded that:

It can be ascertained that the plan or project will not have an adverse effect on
the integrity of the following site(s), either alone or in combination with other plans
and projects; a permission can be given without conditions

North Pennine Moors SAC



PART E:

Permission decision with respect to European Sites

As the relevant competent authority, Natural England has carried out a HRA of the submitted plan or project as required by Regulation 21 or 61 of the Habitats Regulations 2010 and has decided that, with regard to European Sites and their qualifying features;

□ Consent may be given*	

The reasons for this decision are as follows:

- The Wemmergill Estates Ltd Management Agreement (2017 2042) sets out a shared vision and multiple outcomes for grouse moor management, farming, biodiversity and the natural environment. It also includes a programme of moorland infrastructure and management\restoration works across the Estate.
- On the understanding that the moorland infrastructure and vegetation management \
 restoration works are undertaken by the estate in strict accordance with the principles
 and specifications in Sections 2, 3 and 4 of the Management Agreement.
- Although a number of works in the Management Agreement are directly connected
 with and necessary for the conservation \ restoration of SAC and SPA features to
 favourable conservation status, there are elements of the plan which cannot be
 screened out as specifically for these purposes and further Habitats Regulations
 Assessment was required.
- Although the proposed operations are considered unlikely to have a significant effect on the SPA (either alone or in combination with other plans or projects) some of the proposed works could not be screened out at this stage with regard to the SAC and an appropriate assessment of these elements was undertaken by Natural England
- Because the plan/project is not wholly directly connected with or necessary to the management of the European site and is likely to have a significant effect on that site (either alone or in combination with other plans or projects), Natural England carried out an Appropriate Assessment as required under Regulation 21 or 61 of the Habitats Regulations 2010 to ascertain whether or not it is possible to conclude that there would be no adverse effect on the integrity of a European Sites. Natural England has concluded that it can be ascertained that the plan or project will not have an adverse impact on the integrity of the North Pennine Moors SAC either alone or in combination and permission can be given without conditions.
- * Where it has been concluded that a permission may be given, the Habitats Regulations Assessment of the implications of this plan or project on European Sites has been completed. Written permission should not be issued by Natural England until there has been a separate and additional consideration of the plan or project's likely impacts on those features of special interest for which the relevant SSSI(s) has been notified (SEE SECTION F)

References to Evidence

Not Applicable



Appendices

Not Applicable



PART F: SSSI Consideration

F1. SSSI Designated Interest Features

The Lune Forest SSSI interest features are listed below. The interest features potentially affected by this proposal are underlined:

Bogs <u>M2, M3 Bog pools</u>

M18, M19 M20 Blanket mire

M21 Valley mire

M25 Degraded wet heath, blanket bog

Dwarf shrub heath (upland) H9, H12 European dry heath

Wet heath (upland) M15 North Atlantic wet heath with Erica tetralix

Fen, marsh and swamp <u>M10 Mire</u>

M23 Rush mire M37, M38 Flushes

M6 Short sedge acidic fen
Calcareous grassland
CG10 Calcareous grassland
Acid Grassland (upland)*

M1, U4, U5, U6 Acid grassland*

U20 Bracken

Vascular plants Gentiana verna Spring gentian**

Saxifraga hirculus Marsh saxifrage**

Assemblage of breeding birds

The table below shows the species of breeding birds which are considered when assessing the favourability of SSSIs where the 'breeding bird assemblage associated with upland moorland and grassland' is an interest feature. The species likely to be present on Lune Forest SSSI are highlighted in **bold**:

Teal	Redshank
Hen harrier	Greenshank
Buzzard	Wood sandpiper
Golden eagle	Great skua
Merlin*	Arctic skua
Peregrine Falcon	Snowy owl
Red grouse	Short-eared owl
Black grouse	Whinchat
Golden plover*	Stonechat
Temminck's stint	Wheatear
Dunlin	Ring ouzel
Snipe	Chough
Whimbrel	Raven
Curlew*	Twite

^{*} Denotes species with specific 'Species Population Objectives'

^{*} denotes habitats which are not notified for specific habitat interest (under the relevant designation) but because they support notified species (i.e. acid grassland used as breeding habitat by assemblages of breeding birds)

^{**} denotes species not occurring on the site of the proposed works.



F2. SSSI Interest Features <u>already considered</u> as part of the Habitats Regulations Assessment

The following SSSI interest features are also EU qualifying features. The impacts of the proposals on these features have already been considered as part of the Habitats Regulations Assessment and there are no further comments to make:

- Blanket mire (M2, M3, M18, M19, M20)
- European Dry Heath (H9, H12)
- Petrifying springs and Alkaline Fens (M37, M10, M23)
- Acid grassland upland SPA bird supporting habitat (U1, U4, U5, U6)

F3. Effect of proposals on SSSI Interest Features <u>not</u> already considered as part of the Habitats Regulations Assessment

Assemblage of breeding birds

The SSSI breeding assemblage includes the SPA Qualifying species Golden Plover, Merlin, Peregrine Falcon and Hen Harrier and these have been considered in the Habitats Regulations Assessment (HRA). This assessment has concluded that some elements of the plan are required for the conservation of SPA supporting habitat and SPA breeding bird populations whilst other elements are unlikely to have a significant effect on these qualifying species due to the avoidance and mitigation measures built into the Wemmergill Estates Ltd Management Agreement (see Sections 2,3,4 &5). These measures will also ensure that there will be no significant effect on any interest feature or site fabric habitat which will affect its potential to support the assemblage of breeding birds in the Lune Forest SSSI.

F4. SSSI consent decision

Natural England has considered the potential effects of the project on the designated interest features of the SSSI, and has concluded that the plan is consistent with furthering the conservation and enhancement of the special interest of the SSSI such that:

☐ Consent may be given (see Part G)

PART G: HRA & SSSI consent decision

☐ Consent may be given

The reasons for this decision are as follows:

 The management plan is consistent with furthering the conservation and enhancement of the special interest of the SSSI



Document Control

Assessment		Lead Adviser - Field
prepared and		Unit Ecologist &
completed by		Regulation \
		Enforcement,
		Northumbria Area Team
Date	30 May 2017	
Peer-reviewed by		Area Manager
		Northumbria Area Team
Date	05 June 2017	
FOR HIGH-RISK CA	ASES AND/OR REFUSED OR CONDITIONED	SSSI CONSENTS ONLY
[see User Notes]		
HRA checked	Insert name	Team Leader
and referred to		
Protected Sites		
Team by:		
Date		
Advice given by	Insert name	Protected Sites Team,
Protected Sites		Terrestrial Biodiversity
Team:		
Date		
Case referred to	If necessary	Insert role / job title and
High Risk		Team
Casework Panel		
by		
Date		
Consent/Assent/	Insert name	Insert role / job title and
Permission/		Team
Authorisation		
issued by:		
Date		

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