

# Biodiversity Net Gain for proposed new prison on land adjacent to HMP Gartree, Gallow Field Road, Market Harborough, Leicestershire

CGO Ecology Ltd

Christchurch

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Author: Dr Chris Gleed-Owen MCIEEM, Director & Principal Ecologist

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For client: Mace Ltd 155 Moorgate London EC2M 6XB

(+44) 01202 798126 enquiries@cgoecology.com www.cgoecology.com

Registered Company in England and Wales, number 6532052 Registered office: Suite 8 Bourne Gate, 25 Bourne Valley Road, Poole, Dorset, BH I 2 TDY, UK Project: MoJ NPP Gartree 2 Deliverable: Biodiversity Net Gain report Our reference: RAVN BNG Version: 2 Date: 3<sup>rd</sup> November 2021

Author:	Dr Chris Gleed-Owen BSc (Hons) PhD MCIEEM	CAUller
Checked by:	Rebecca Perl BA MA	flort
Approved by:	Dr Chris Gleed-Owen BSc (Hons) PhD MCIEEM	CAUller

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1	21/10/2021	n/a
2	03/11/2021	Minor typographical correction

# Non-technical summary

#### Introduction

CGO Ecology Ltd (CGO) was instructed by Mace Ltd, on behalf of the Ministry of Justice (MoJ), to provide Biodiversity Net Gain (BNG) provisions on land to the south of HMP Gartree, Market Harborough, Leicestershire. The MoJ proposes a development as part of its New Prisons Programme on a 25ha site (SP 7052 8873). The Local Planning Authority (LPA) is Harborough District Council. It is MoJ policy to achieve at least 10% BNG in all its developments.

#### <u>Methodology</u>

Biodiversity Metric 3.0 was completed by Dr Chris Gleed-Owen MCIEEM of CGO in August 2021 and submitted with an Outline Planning Application. This was the culmination of an iterative process beginning in February 2021, involving close liaison between CGO, Mace, and the Pick Everard design team. Metric 2.0 was originally used in June 2021, but the data were transferred to Metric 3.0 in August 2021. Baseline habitat data were extracted from a Phase 1 survey by Ramboll in 2020, redrawn and revised to incorporate an updated Phase 1 survey by CGO in July 2020. Post-development habitat creation and enhancement figures were provided by Pick Everard. UKHab classifications and conditions were translated from their Phase 1 equivalents with the aid of Natural England's Higher Level Stewardship (HLS) Farm Environment Plan (FEP) manual.

#### <u>Results</u>

The proposed scheme will provide 26.29% net gain in habitat units, and 25.26% net gain in hedgerow units. There are no running waterways on site.

The main baseline habitat loss will be 18.85ha of UKHab classification 'modified grassland' in 'fairly poor' condition, translated from Phase 1 habitat type 'poor semi-improved grassland' following the HLS FEP grassland guidance. Small areas of woodland and scrub will be lost, including planted non-natives.

Habitat creation will be primarily within the new prison, dictated by design and security considerations. Native planting and seed mixes will be used as far as possible. A belt of native broadleaved woodland will be planted around the entire southern and eastern perimeter of the new prison (2.03ha). Together with 0.73km of new hedgerow, this presents a significant gain in linear habitat connectivity. Two ponds will be created in the area northwest of Welland Avenue.

Habitat enhancement will be conducted on two areas of land northwest of Welland Avenue, and north of the prison. This will involve 4.56ha of fairly-poor modified grassland enhanced to 'other neutral grassland' by cutting hard, scarifying, and seeding with a biodiverse, native, location-appropriate mix.

#### Conclusions and recommendations

Both the area and linear habitat elements of Biodiversity Metric 3.0 have been completed, and the proposed new prison will achieve aver 25% BNG for both. Habitat trading rules are satisfied. The BNG enhancements must be provided within one year of commencement of the development.

# Contents

1. Introduction	5
2. Methodology	6
3. Results	6
4. Conclusions and recommendations	6
5. References	7
6. Appendix (Biodiversity Metric 3.0 extracts)	7

# 1. Introduction

CGO Ecology Ltd (CGO) was instructed by Mace Ltd, on behalf of the Ministry of Justice (MoJ), to provide Biodiversity Net Gain (BNG) provisions on land to the south of HMP Gartree, Market Harborough, Leicestershire. The MoJ proposes a development as part of its New Prisons Programme on a 25ha site (SP 7052 8873). The Local Planning Authority (LPA) is Harborough District Council. It is MoJ policy to achieve at least 10% BNG in all its new prisons.



Figure 1 – Development site boundary (red line) and MoJ ownership boundary (blue line).



Figure 2 – Proposed development and landscaping plan, with habitat areas for BNG purposes, produced by Pick Everard.

A Preliminary Ecological Appraisal (PEA) conducted by Ramboll (Molesworth, 2020). The Phase 1 habitat survey was updated in July 2021 by CGO (Gleed-Owen, 2021). A series of phase 2 species surveys were also conducted.

# 2. Methodology

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The author Dr Chris Gleed-Owen BSc (hons) PhD MCIEEM is Director & Principal Ecologist of CGO Ecology Ltd, an ecological consultant since 2008 (13 years). Survey licences: CL09 great crested newt (GCN, *Triturus cristatus*), sand lizard (*Lacerta agilis*), smooth snake (*Coronella austriaca*), natterjack toad (*Epidalea calamita*), Roman snail (*Helix pomatia*). Previous mitigation licence-holder for smooth snake and/or sand lizard (6), and badger (*Meles meles*) sett closure (3). Experienced practitioner of Phase 1 habitats, National Vegetation Classification (NVC), flora (FISC level 4 botanist), vertebrates, invertebrates, BNG, EcIA/EIA, BREEAM.

Plans and extracted baseline habitat areas and lengths were produced by CGO GIS officer Jack Parker.

# 3. Results

The proposed scheme will provide 26.29% net gain in habitat units, and 25.26% net gain in hedgerow units. There are no running waterways on site.

The main baseline habitat loss will be 18.85ha of UKHab classification 'modified grassland' in 'fairly poor' condition, translated from Phase 1 habitat type 'poor semi-improved grassland' following the HLS FEP grassland guidance. Small areas of woodland and scrub will be lost, including planted non-natives.

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The Metric's habitat trading rules are satisfied.

# 4. Conclusions and mitigation recommendations

Both the area and linear habitat elements of Biodiversity Metric 3.0 have been completed, and the proposed new prison will achieve over 25% BNG for both. Habitat trading rules are satisfied. The BNG enhancements must be provided within one year of commencement of the development.

### 5. References

Molesworth, J. (2020) Raven. Preliminary Ecological Appraisal. Ramboll, Exeter.

- Gleed-Owen, C. (2021) Updated Phase 1 habitat survey for new prison on land adjacent to HMP Gartree, Gallow Field Road, Market Harborough, Leicestershire. CGO Ecology Ltd, Christchurch.
- Natural England (2010) *Higher Level Stewardship Farm Environment Plan (FEP) Manual (3<sup>rd</sup> edition)*. Natural England, York.

#### Gartree 2 Return to results menu Headline Results 84.91 Habitat units On-site baseline Hedgerow units 10.48 0.00 River units Habitat units 107.23 On-site post-intervention 13.13 Hedgerow units (Including habitat retention, creation & enhancement) 0.00 River units 26.29% Habitat units On-site net % change Hedgerow units 25.26% (Including habitat retention, creation & enhancement) River units 0.00% 0.00 Habitat units Off-site baseline 0.00 Hedgerow units River units 0.00 0.00 Habitat units Off-site post-intervention 0.00 Hedgerow units (Including habitat retention, creation & enhancement River units 0.00 22.32 Habitat units Total net unit change Hedgerow units 2.65 (including all on-site & off-site habitat retention, creation & enhancement) River units 0.00 26.29% Habitat units Total on-site net % change plus off-site surplus 25.26% Hedgerow units (including all on-site & off-site habitat retention, creation & enhancement) 0.00% River units Trading rules Satisfied? Yes Results Headline Results A-1 Site Habitat Baseline A-2 Site Habitat Creation .... Figure 3 – Headline BNG results extracted from Biodiversity Metric 3.0.

## 6. Appendix (Biodiversity Metric 3.0 extracts)

E			A-1 Si	Gartree 2 te Habitat	Bas	seline													
		Condense / Sho	w Columns			Cond	ense / Show	Rows											
		Main M	enu			1	Instructions	3											
				Habita	ıts ar	ıd areas					Distinctiven	1055	Cond	lition	Strateg	ic signi	ficance		
Ref	Br	road habitat			Ha	bitat type	•			Area (hectares)	Distinctiveness	Score	Condition	Score	Strategic significance		Strategic significance	Strategic Significance multiplier	
1		Grassland		1	Modif	ied grassla	ind			0.45	Low	2	Poor	1	Area/compensation not in local strate local strategy	egy/ no	Low Strategic Significance	1	
2	Wood	dland and fores	t -	Other	wood	lland; broa	dleaved			0.18	Medium	4	Fairly Poo	r 1.5	Area/compensation not in local strate local strategy	egy/no	Low Strategic Significance	1	
3	Wood	dland and fores	t -	Other	wood	iland; broa	dleaved			0.86	Medium	4	Fairly Poo	r 1.5	Area/compensation not in local strate local strategy	egy/ no	Low Strategic Significance	1	
4		Urban		Develo	ped l	and; seale	d surface			0.04	V.Low	0	N/A - Othe	er O	Area/compensation not in local strate local strategy	egy/ no	Low Strategic Significance	1	
5	Heatl	hland and shrub	,		Mi	xed scrub				0.47	Medium	4	Moderate	2	Area/compensation not in local strate local strategy	egy/ no	Low Strategic Significance	1	
6		Urban		Develo	ped l	and; seale	d surface			1.68	V.Low	0	N/A - Othe	er O	Area/compensation not in local strate local strategy	egy/ no	Low Strategic Significance	1	
7	Wood	dland and fores	t	oodland; n	nixed			0.37	Medium	4	Poor	1	Area/compensation not in local strat- local strategy	egy/ no	Low Strategic Significance	1			
8	Grassland Modified grassland									23.41	Low	2	Fairly Poo	r 1.5	Area/compensation not in local strategy/ no local strategy		Low Strategic Significance	1	
9	Heathland and shrub Mixed scrub									0.16	Medium	4	Moderate	2	Area/compensation not in local strate	egy/no	Low Strategic	1	
10		Lakes		Pond	s (No	n- Priority I	Habitat)			0.02	Medium	4	Fairly Poo	r 1.5	Area/compensation not in local strate	egy/ no	Low Strategic	1	
11	Sparse	ly vegetated lar	nd	1	Ruder	al/Epheme	ral			0.45	Low	2	Poor	1	Area/compensation not in local strate	egy/ no	Low Strategic	1	
12	-	Describe 11	- dila - Davida	A 4 614-11				cia - Linka	tet Carella		- Habitat Cabas		1.0.10		Decelies D. 2 Cite Hadre Co		Signincance	- 1.1	
•		Results He	adime kesuit	A-T Site H		it baselin	A-2 :	Site Habi		A-5 50	e nabitat crinari	icement	0-13	ite nedge	Baseline B-2 Site Hedge Cit	eation	. (+)	: •	
		Suggeste	d action to	Ecological baseline			Ret	ention cat	egory biod	liversity value		compensation			Comr	nents			
Strat Signifi multi	egic cance plier	address ha	bitat losses	Total habitat units		Area retained	Area enhanced	Baseline units retained	Baseline units enhanced	Ārea lost	Units lost	agree unacce loss	d for ptable ies		Assessor comments Reviewer comments				
1	l	Same distinctiv habitat	required	0.90		0.18		0.36	0.00	0.27	0.54		An	nenity gras	sland, poor quality by definition.				
1		Same broad ha distinctiveness	bitat or a higher habitat required	1.08				0.00	0.00	0.18	1.08		Pla wi	antation. Un llows. Fails	managed clumps of secondary-growth condition-assessment 4 criteria.				
1	l	distinctiveness	bitat or a nigner habitat required	5.16		0.55		3.30	0.00	0.31	1.86		gr	owth willow	Unmanaged clumps of secondary- rs. Fails condition-assessment 4 criteria.				
1	1	Compensation	n Not Required	0.00				0.00	0.00	0.04	0.00								
1	l	Same broad habitat or a higher 3.76 0.47 3.76								0.00	0.00								
1	1 Compensation Not Required 0.00 0.27 0.00					0.00	0.00	1.41	0.00		101-	antation Tiv	as of matura unmanagad non-notico						
1	Same broad habitat or a higher distinctiveness habitat required     Same distinctiveness or better					0.23		0.92	0.00	0.14	0.56		hy de	finition), wi	poplar & Leyland cypress (poor by th few natives.				
1	Abitat required     Same broad habitat or a higher						4.56	0.00	13.68	18.85	56.55								
1		distinctiveness Same broad he	habitat required	1.28		0.16		1.28	0.00	0.00	0.00		Do	or water or	ality flora, but supports GCN				
1		distinctiveness Same distinctiv	habitat required	0.12				0.00	0.00	0.02	0.12		Ta	ll ruderal	and, nora, was supports cross.				
1	1 habitat required 0.90 0.05 0.10 0.00								0.00	0.40	0.80								
<ul> <li>↓</li> </ul>		Results Hea	dline Results	A-1 Site Habita	at Ba	seline /	A-2 Site Ha	bitat Crea	tion A	-3 Site Habitat	Enhancement	B-1 Sit	e Hedge Ba	iseline	B-2 Site Hedge Creation 🕒				

Figure 4 – Baseline area-based habitats extracted from Biodiversity Metric 3.0.

		Gartree 2													
		A-2 Site Habitat Creation													
60	ndense / Show Coli	umns Condense / Show	r Rows												
	Main Menu	Instruction	5												
														Post der	elopment/ post i
					Distinc	ctiveness	Cond	lition		Str	ategic signif	icance			
Broad H	nbitat	Proposed habitat		(hectares)	Distinctivene	ss Score	Condition	Score	Strateg	ic significat	ice	Strategic significance	Strategic position multiplier	Standard time to target condition/years	Habitat created in advance/years
Urbs	m	Introduced shrub		0.43	Low	2	Poor	1	Area/compensati	on not in local al strategy:	strategy/no	Low Strategic Significance	1	1	0
Urbe	m	Urban Tree		0.14	Medium	4	Moderate	2	Area/compensati	on not in local cal strategy	strategy/no	Low Strategic Significance	1	27	0
Lake	NB	Ponds (Non- Priority Habitat)		0.09	Medium	4	Moderate	2	Area/compensati loc	on not in local cal strategy	strategy/no	Low Strategic Significance	1	3	0
Woodland a	nd forest	Other woodland; broadleaved	1	2.03	Medium	4	Moderate	2	Area/compensati loc	on not in local cal strategy	strategy/ no	Low Strategic Significance	1	15	0
Urbe	m	Developed land; sealed surfac	:0	0.63	V.Low	0	N/A - Other	0	Area/compensati	on not in local cal strategy	strategy/no	Low Strategic Significance	1	0	0
Urbe	m	Developed land; sealed surfac	e	1.51	V.Low	0	N/A - Other	0	Area/compensati	on not in local	strategy/no	Low Strategic Significance	1	0	0
Lake	s	Ponds (Non- Priority Habitat)		0.04	Medium	4	Good	3	Area/compensati	on not in local cal strategy	strategy/ no	Low Strategic Significance	1	5	0
Grassl	and	Modified grassland		0.77	Low	2	Fairly Poor	1.5	Area/compensati	on not in local al strategy	strategy/no	Low Strategic Significance	1	2	0
Grassl	and	Other neutral grassland		1.47	Medium	4	Moderate	2	Area/compensati loc	on not in locai cal strategy	strategy/ no Low Strategic Significance		1	5	0
				_											
<b>4</b> →	Results H	eadline Results A-1 Site Habitat Base	line A-2 Sit	e Habitat Cr	eation A-3	8 Site Habitat	Enhanceme	nt B-1	Site Hedge Ba	iseline	B-2 Site H	ledge Creation	+	1	
elopment/ post in	tervention habi	tats													
		Temporal multiplier				Diffic	culty multiplie	rs	-	Habitat			Commen	ts	
Habitat created in advance/years	Delay in starting habita creation/years	t Standard or adjusted time to target condition	Final time to target condition/years	Final time to target multiplier	difficulty of creation	rd y of Applied difficulty multiplier difficu on creation			of multiplier n applied	units delivered	As	sessor comments		Reviewer co	mments
0	0	Standard time to target condition applied	1	0.965	Low	Standard difficu	lty applied	Low	1	0.83					
0	0	Standard time to target condition applied	27	0.382	Low	Standard difficu	lty applied	Low	1	0.43	Figure calcul	ated previously for Me	stric 2.0.		
0	0	Standard time to target condition applied	3	0.899	Low	Standard difficu	lty applied	Low	1	0.65					
0	0	Standard time to target condition applied	15	0.586	Low	Standard difficu	lty applied	Low	1	9.52					
0	0	Standard time to target condition applied	0	1.000	Low	Standard difficu	ity applied	Medium	a 0.67	0.00	Artificial spor	ts pitch			
0	0	Standard time to target condition applied	0	1.000	Low	Standard difficu	lty applied	Medium	a 0.67	0.00	Arbitrary are predev/post	a added to solve mis: iev figures	natch in		
0	0	Standard time to target condition applied	0.837	Low	Standard difficu	lty applied	Low	1	0.40 of Welland J grassland).		Ponds created in enhancement field north of Welland Avenue (currently modified grassland).				
0	0	Standard time to target condition applied	0.931	Low	Standard difficu	lty applied	Low	1	2.15	PEV flowerin reasonably-d regularly mo condition.	g lawn', presumably e liverse seecled mix, st wn. Hence fairly poor	а Ш			
0	0	Standard time to target condition applied	0.837	Low	Standard difficu	lty applied	Low	1	9.84	PEV 'neutral biodiverse m mown more s would require	grassland', presumab ix (moderate condition egularly than good or e.	ty a n), but endition			
4 5	Results He	eadline Results A-1 Site Habitat Baselin	A-2 Site	Habitat Creat	ion A-3 Si	te Habitat Enh	ancement	B-1 Site	Hedge Baselin	ie B-2	Site Hedae	Creation	-	1.4	

Figure 5 – Area-based habitat creation extracted from Biodiversity Metric 3.0.

Gartr Ā-3	ee 2 Site Habitat Enh	ancement		Ξ															
Condense / Dow Couloms Condense / Dow Rows																			
	Main Menu Instructions																		
	Baseline habitats															abitat (Pre-Pepul	ated but can be	overridden)	
Baseli ref	ne Ba	seline habitat	Tol hab tar	al Baseline ta distinctivenes sa s band	Baselin distinctive s score	e Ba nes cor ca	seline ndition tegory	Baseline condition scor	e Baseline strategic significance	Baseline strategic significance	Baseline habitat un	its Sugges	ted action to address habitat losses	Proposed Broa	d Habitat		Proposed	habitat	
8	Grasslan	d - Modified grassland	23	II Low	2	Fai	rly Poor	15	Low Strategic Significance	1	70.23	Same	fistinctiveness or better habitat required	Grassland		Other neutral grassland			
				-			Post de	velopmen# pos	t intervention habit	ats		_							
	Change in distinctiven	ess and condition	Area						Strategic sig	nificance				Temporal	risk multiplie	er			
Distin	tiveness change	Condition change		es Distinctivenes	s Score	Condition	Score	Strategic significance		Strategic significance	Strategic position multiplier	Standard tim to target condition/yes	e Habitat enhanced in advance/years	Delay in starting habitat enhancement/year	Standard or target	adjusted time to condition	Final time to target condition/year	Final time to target multiplier	Standard difficulty of enhancemen
L	ow - Medium	over Distinctiveness Hab Good	itat - 4.56	Medium	4	Good	3	Arealcompensi	ation not in local strateg local strategy	ul no Low Strategic Significance	1	15	0	0	Standard time a	to target condition pplied	15	0.586	Low
	Difficulty risk mu	ultipliers		Habitat				Com	ments										
Ap	nultiplier	Final difficulty of enhancement	Difficult multiplie applied	r delivered	1	Assessor	comme	nts	Revie	wer comment	8								
Standa	ard difficulty applied	Low	1	37.73	Will be cu biodiverse advised b	it hard, sc e native gr <u>y LCC ecc</u>	arified, se assland r plogist.	eded with nix, as											

Figure 6 – Area-based habitat enhancement extracted from Biodiversity Metric 3.0.

B-1 Site Hedge Baseline																			
Condense / Show Columns Condense / Show Rows																			
Main Menu Instructions																			
	[	JK Habitats -	existing hab	itats			Ha	abitat dis	tinctiv	veness	Habitat cor	ndition	Strategic significance						
	Baseline ref	Hedge numbe	Hedge Hedgerow type							1 Di	istinctive	ness	Score	Condition	Score	Strategic	significance	Strategic significance	Strategic position multiplier
	1		Nati	ive l	Hedgerow - As	ssociated with l	oank or ditch	1	1.31		Medium	L	4	Moderate	2	Area/compensation loca	not in local strategy/ no l strategy	Low Strategic Significance	1
	uggested	action	Ecological baseline			Retention c	ategory b	iodivers	sity valı	value			Comments						
t	address l losses	habitat 5	Total hedgerow units		Length retained	Length enhanced	Units retained	Unit: enhanc	s Lei ced le	ngth ost	Units lost			Assessor	commer	nts	Revie	wer comments	
Like for like or better         10.48         1.03         8.24         0								0.00	0	.28	2.24	Mixtu poor l	ire of def hedgero	ùnct 0.33km a ws, grown ou	and intac t, unman	rt 0.98km species- laged.			

Figure 7 – Baseline hedgerow extracted from Biodiversity Metric 3.0.

B-2 Site	e He	dge Crea	tion	(											
Condense / Show Columns Condense / Show Rows						$\leq$									
Main Menu Instructions															
				Proposed hab	itats		Habitat d	istinctiveness	Habitat	condition		Strategic signific	cance		
Baseline ref	Ne hed num	w ge ber		Habitat type		Length km	Distinctiven	ess Score	Condition	Score	S	trategic significance	Strategi significar	ic Strategic position multiplier	Standard Time to target condition/years
1			Nat	ive Species Rich Hedge	Frow	0.73	Medium	4	Moderate	2	Area/com	bensation not in local strategy/ no local strategy	Low Strate Significan	agic 1	5
											-				
		Tem	poral multi	iplier				Difficulty risk r	nultipliers		Hedge		Commer	nts	
Habitat created in advance/years Delay in creation/years Standard or adjusted time to target condition target condition/years						Final Time to target multiplier	Standard difficulty of creation	Applied difficullty multiplier	Final difficulty of creation	Difficulty multiplier applied	units delivered	Assessor comments Reviewe			omments
0 O Standard time to target condition applied 5					0.837	Low	Standard difficulty applied	Low	1	4.89	PEV planting palette shows planting include hawthorn, hazel, dogwood, tree, blackthorn.	y will wayfaring			

Figure 8 - Hedgerow creation extracted from Biodiversity Metric 3.0.