Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	Special Protection Area (SPA) draft extension
10km buffer zone	RAMSAR

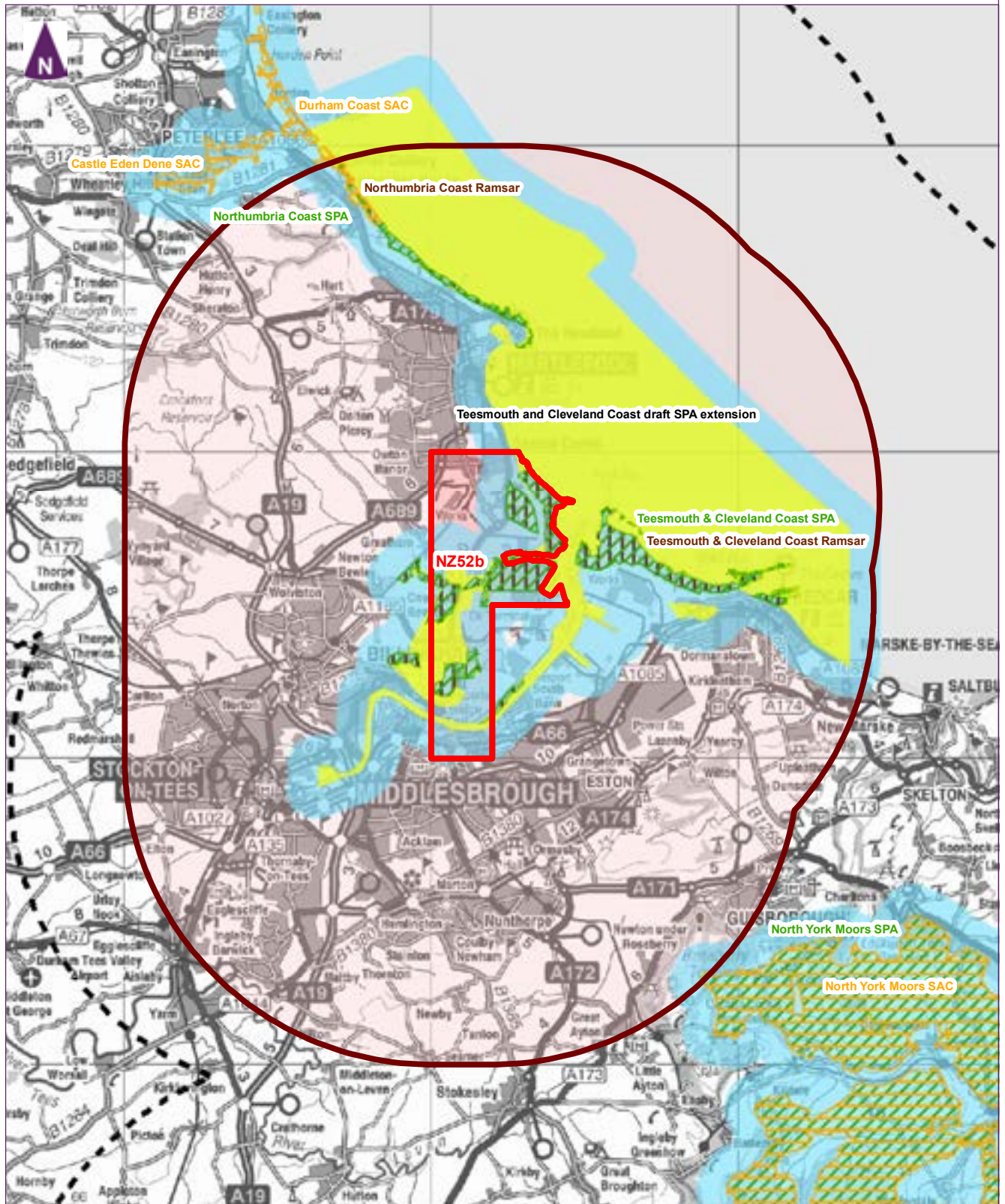Scale at A4: 1:185,000

0   5   10 km

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Figure 1
HRA of Licence Application Block NZ51

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Labels on map:
- Teesmouth and Cleveland Coast draft SPA extension
- Teesmouth & Cleveland Coast Ramsar
- Teesmouth & Cleveland Coast SPA
- NZ51
- North York Moors SAC
- North York Moors SPA

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- Special Protection Area (SPA) draft extension
- RAMSAR

Scale at A4: 1:185,000

0   5   10 km

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Figure 1
HRA of Licence Application Block NZ52b

November 2015   33917-Lea46c.mxd BROWJ

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Key

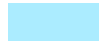|	
Licence block boundary	
10km potential zones of influence	
1km buffer zone	
10km buffer zone	
Special Area of Conservation (SAC)	
Special Protection Area (SPA)	
Special Protection Area (SPA) draft extension	
RAMSAR	

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change
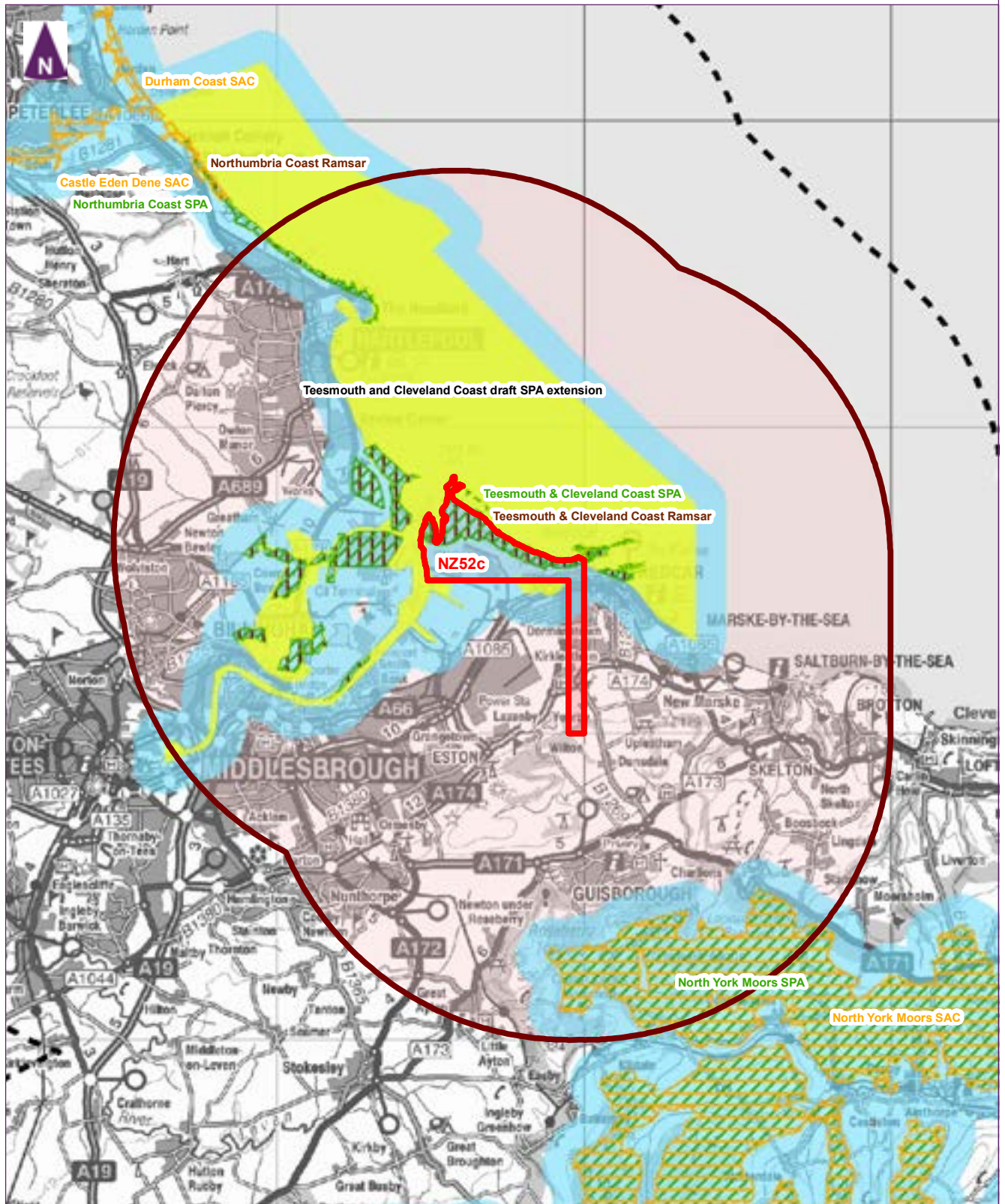
Figure 1
HRA of Licence Application Block NZ52c

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0   5   10 km

Scale at A4: 1:185,000

file: H:\Projects\33917_LEA\33917 map package\V101\33917-Lea46c.mxd

Map labels:
- Durham Coast SAC
- Castle Eden Dene SAC
- Northumbria Coast SPA
- Northumbria Coast Ramsar
- Teesmouth and Cleveland Coast draft SPA extension
- Teesmouth & Cleveland Coast SPA
- Teesmouth & Cleveland Coast Ramsar
- NZ52c
- North York Moors SPA
- North York Moors SAC

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	Proposed SPA (pSPA)
10km buffer zone	

Labels on map:
- WHITBY
- Beast Cliff – Whitby (Robin Hood`s Bay) SAC
- NZ90
- North York Moors SAC
- Fen Bog SAC
- North York Moors SPA
- Eller`s Wood and Sand Dale SAC
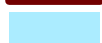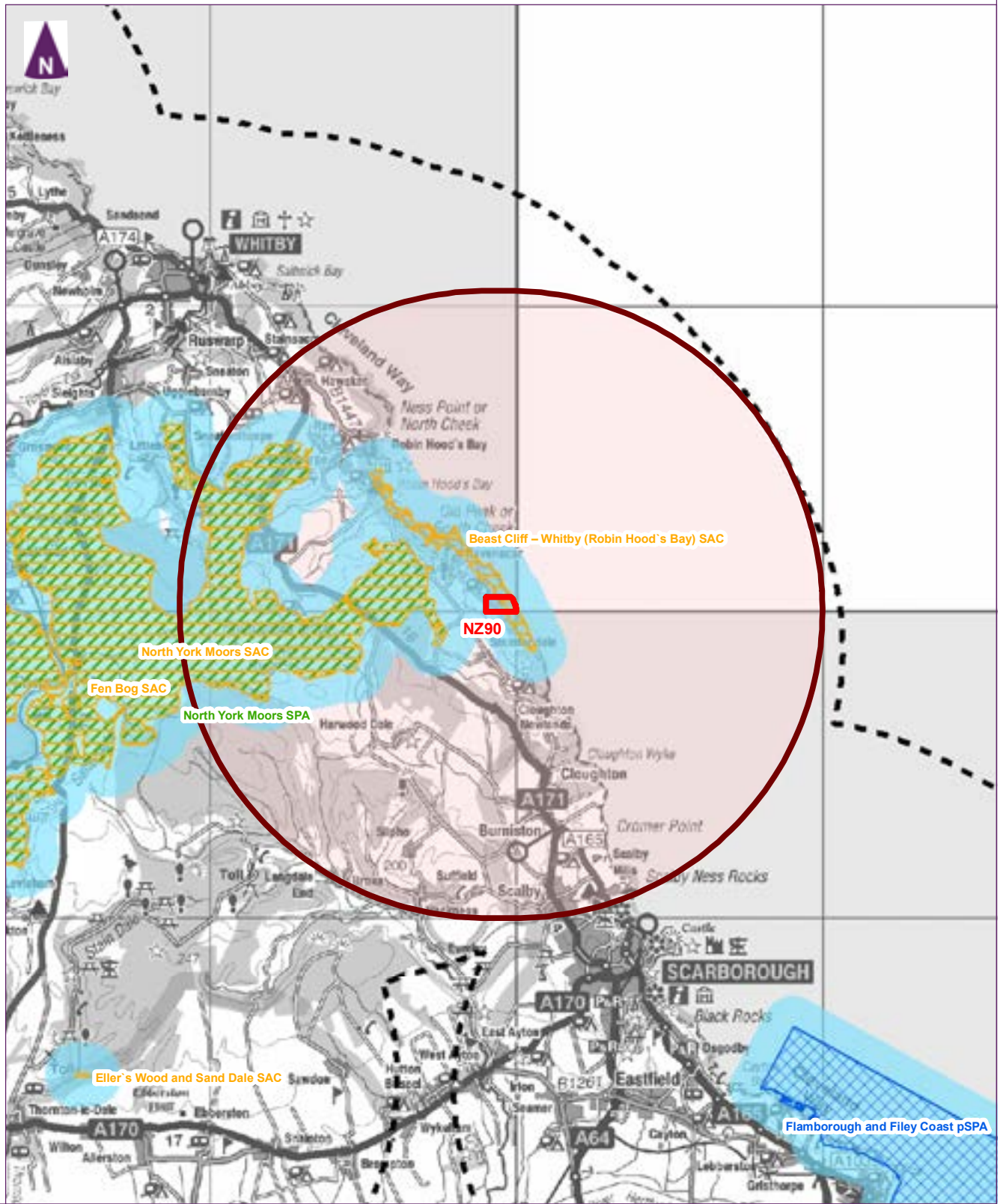- Flamborough and Filey Coast pSPA
- SCARBOROUGH

Scale:
0 — 5 — 10 km
Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block NZ90

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Map labels:
- Subberthwaite, Blawith and Torver Low Commons SAC
- Duddon Mosses SAC
- Roudsea Wood and Mosses SAC
- Duddon Estuary Ramsar
- Duddon Estuary SPA
- Morecambe Bay SPA
- Morecambe Bay Ramsar
- SD16
- Morecambe Bay SAC
- Shell Flat and Lune Deep SAC
- Liverpool Bay / Bae Lerpwl SPA

Key

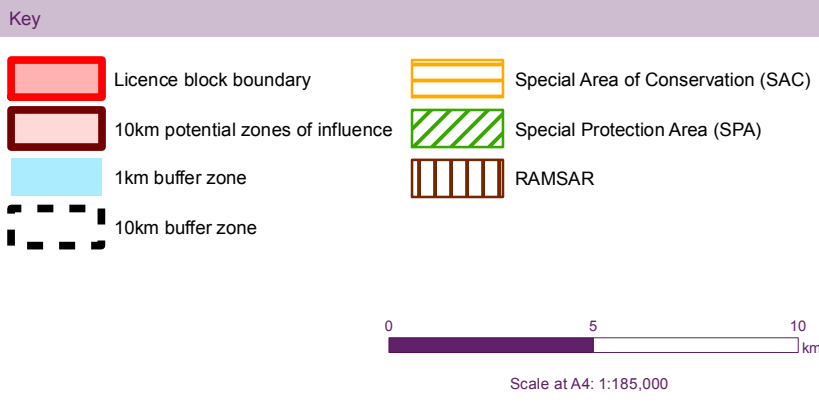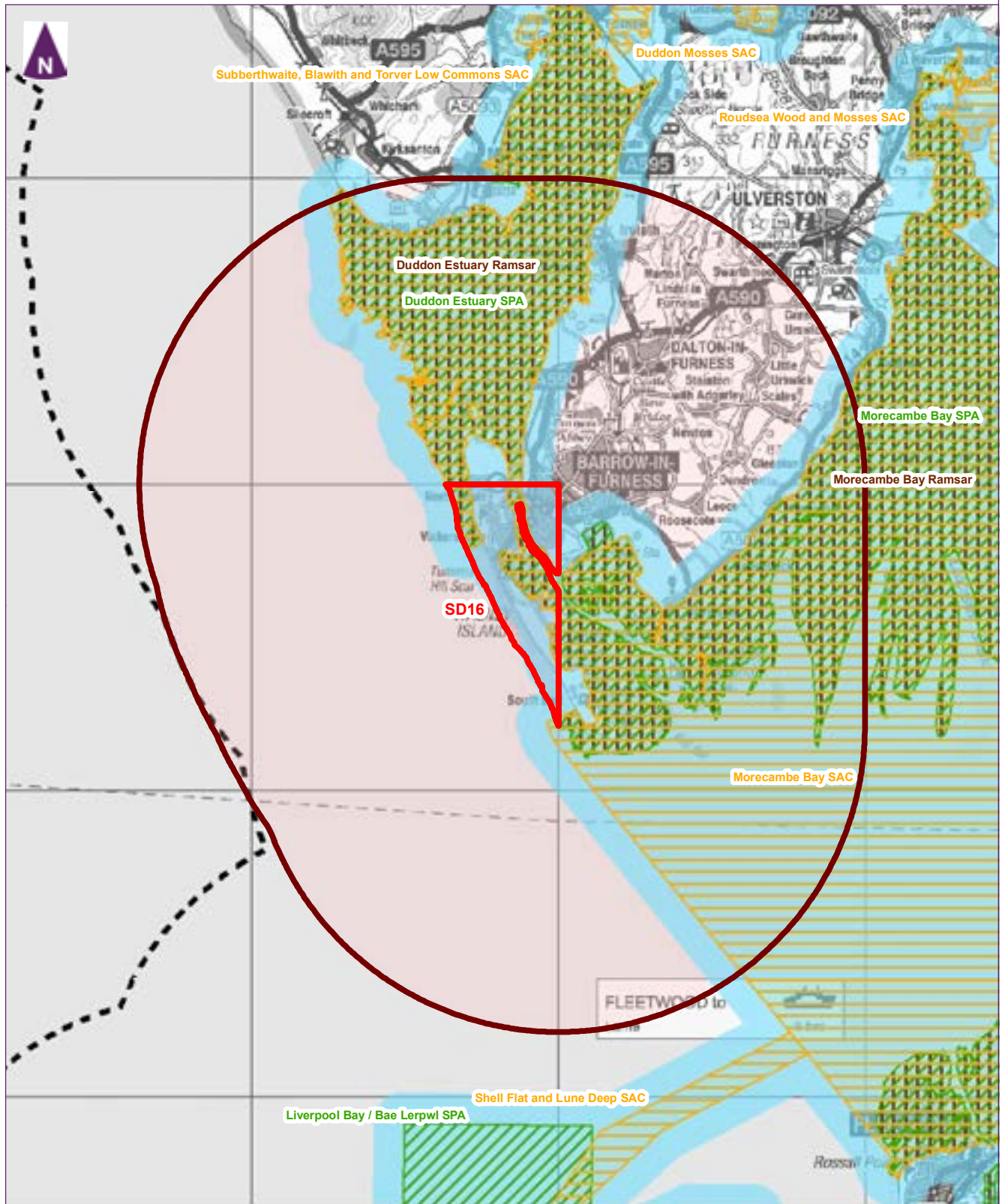| Symbol	Description
Licence block boundary	
10km potential zones of influence	
1km buffer zone	
10km buffer zone	
Special Area of Conservation (SAC)	
Special Protection Area (SPA)	
RAMSAR	

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Figure 1
HRA of Licence Application Block SD16

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0   5   10 km

Scale at A4: 1:185,000

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

Map labels:
Drigg Coast SAC
Subberthwaite, Blawith and Torver Low Commons SAC
Duddon Mosses SAC
Duddon Estuary SPA
SD17
Duddon Estuary Ramsar
Morecambe Bay Ramsar
Morecambe Bay SPA
Morecambe Bay SAC
WALNEY ISLAND
ULVERSTON
DALTON-IN-FURNESS
BARROW-IN-FURNESS
FURNESS

Scale at A4: 1:185,000
0   5   10 km

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
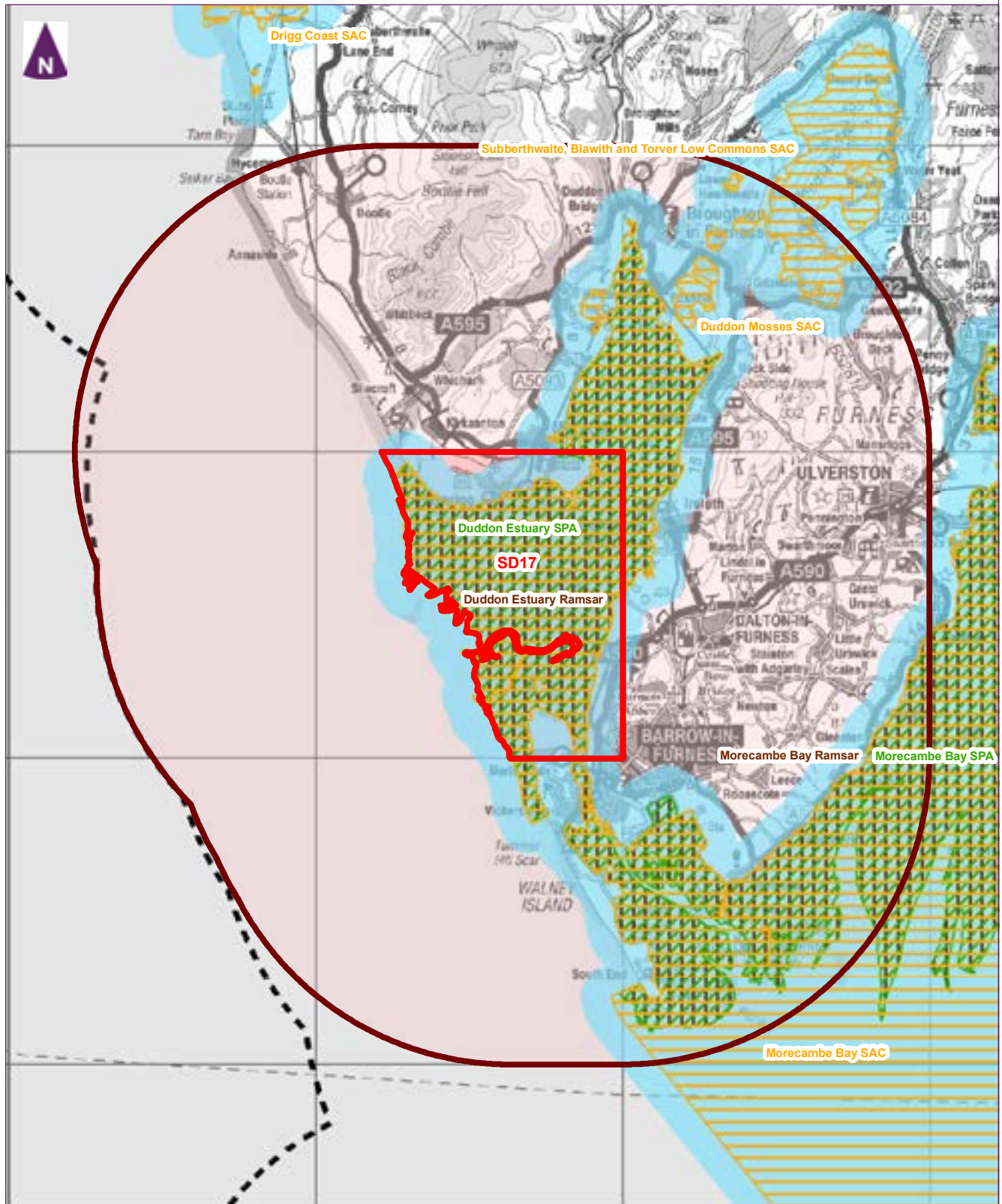Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SD17

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

Map labels:
- Ribble & Alt Estuaries SPA
- Ribble & Alt Estuaries Ramsar
- Martin Mere Ramsar
- Martin Mere SPA
- Sefton Coast SAC
- Liverpool Bay / Bae Lerpwl SPA
- SD20
- The Dee Estuary/Aber Afon Dyfrdwy SPA
- The Dee Estuary Ramsar
- Dee Estuary/Aber Dyfrdwy SAC
- Mersey Estuary SPA
- Mersey Estuary Ramsar

Scale at A4: 1:185,000

Scale bar: 0 — 5 — 10 km

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Figure 1
HRA of Licence Application Block SD20

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

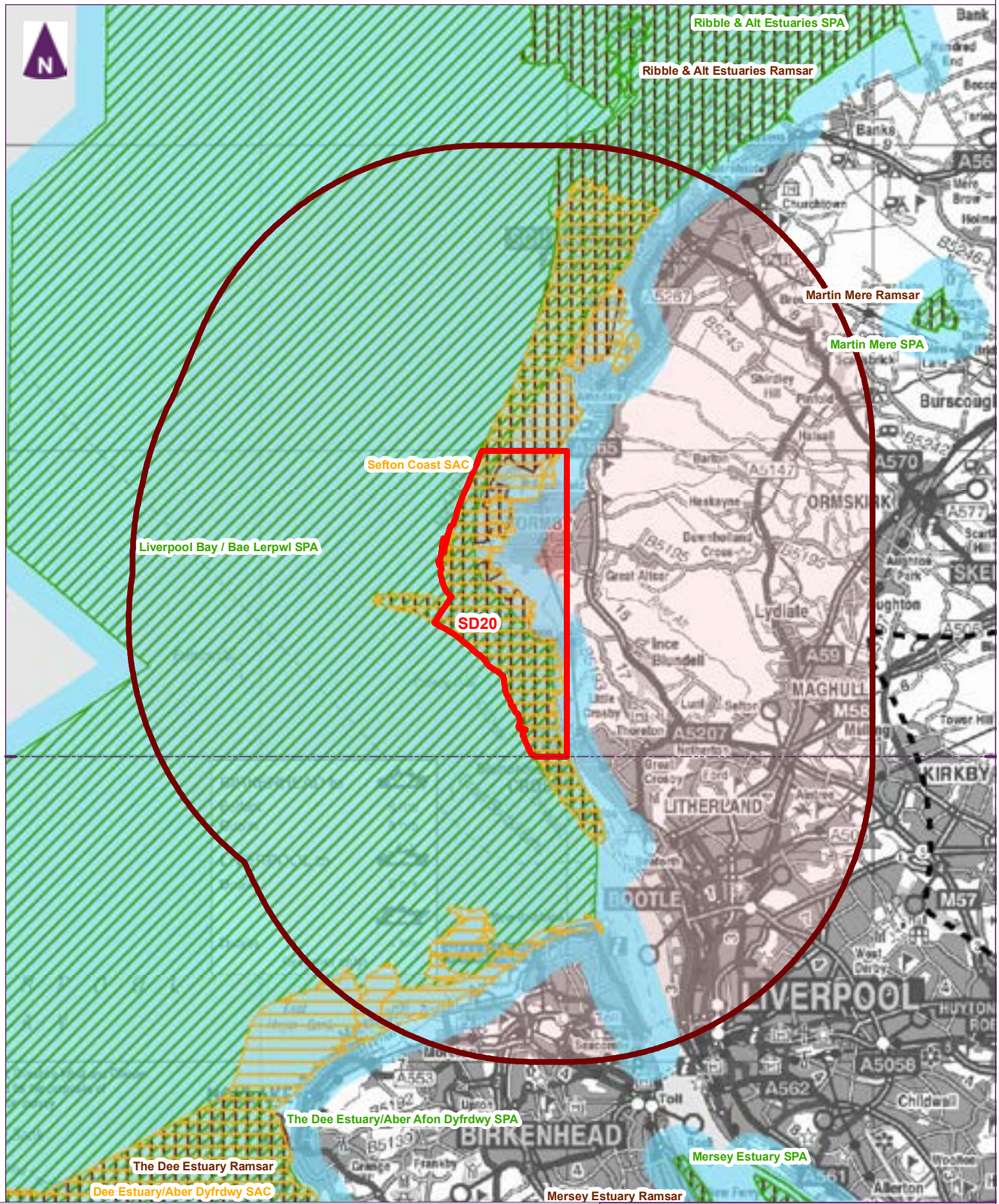Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SD21

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Scale at A4: 1:185,000

Key

Symbol	Description	Symbol	Description
Licence block boundary		Special Area of Conservation (SAC)	
10km potential zones of influence		Special Protection Area (SPA)	
1km buffer zone		RAMSAR	
10km buffer zone			

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
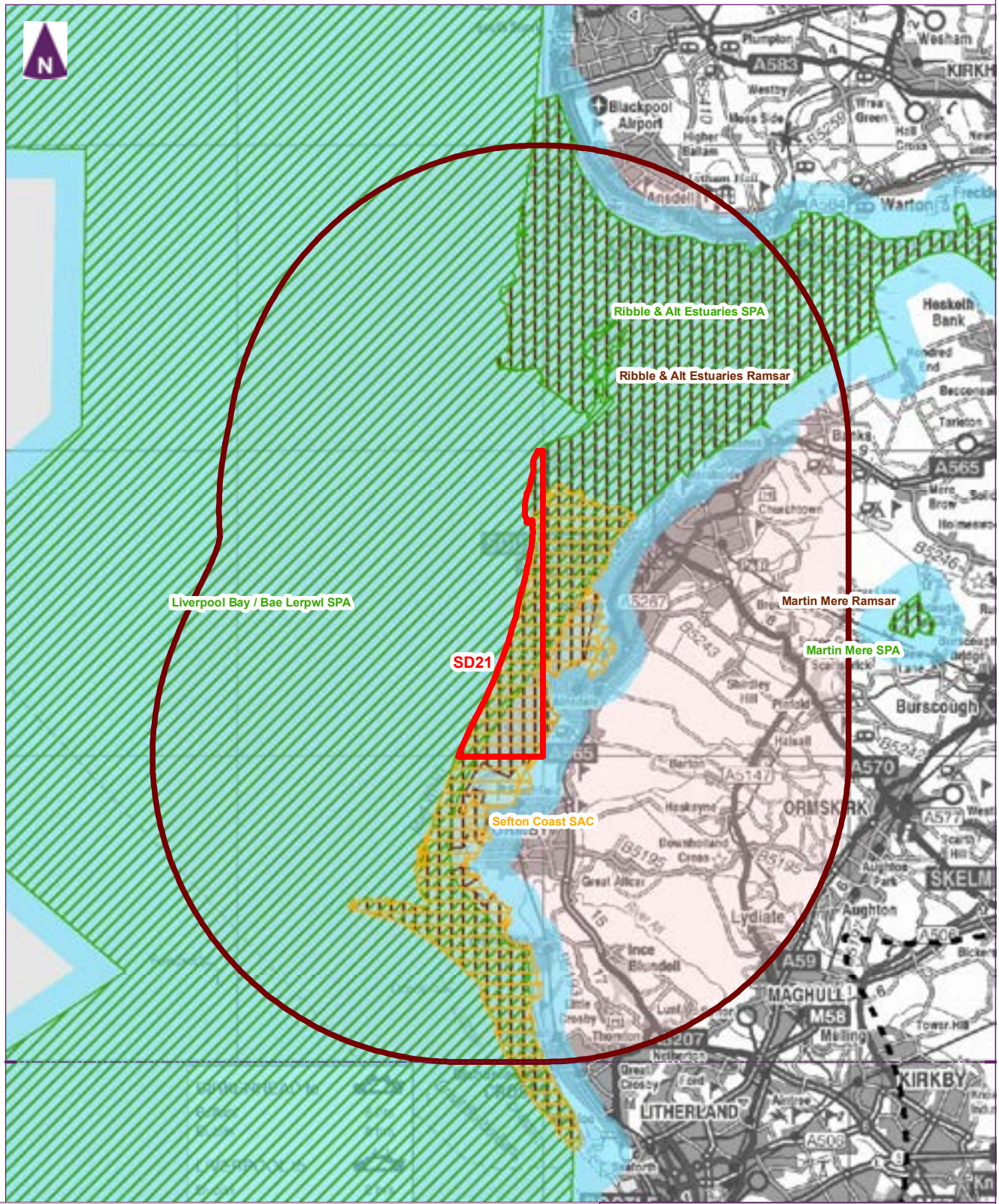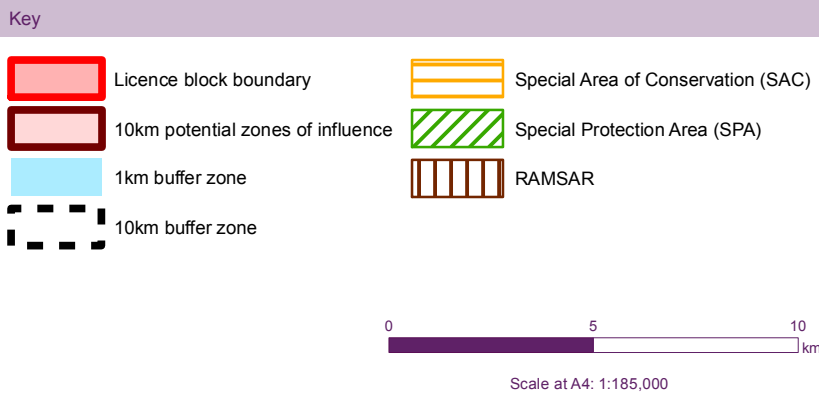Department of Energy and Climate Change

Figure 1
HRA of Licence Application Block SD26a

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0   5   10
km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Map labels:
- Duddon Mosses SAC
- Subberthwaite, Blawith and Torver Low Commons SAC
- Roudsea Wood and Mosses SAC
- Duddon Estuary Ramsar
- Duddon Estuary SPA
- Morecambe Bay Ramsar
- Morecambe Bay SPA
- SD26a
- Morecambe Bay SAC
- Shell Flat and Lune Deep SAC
- Liverpool Bay / Bae Lerpwl SPA

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Figure 1
HRA of Licence Application Block SD26b

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
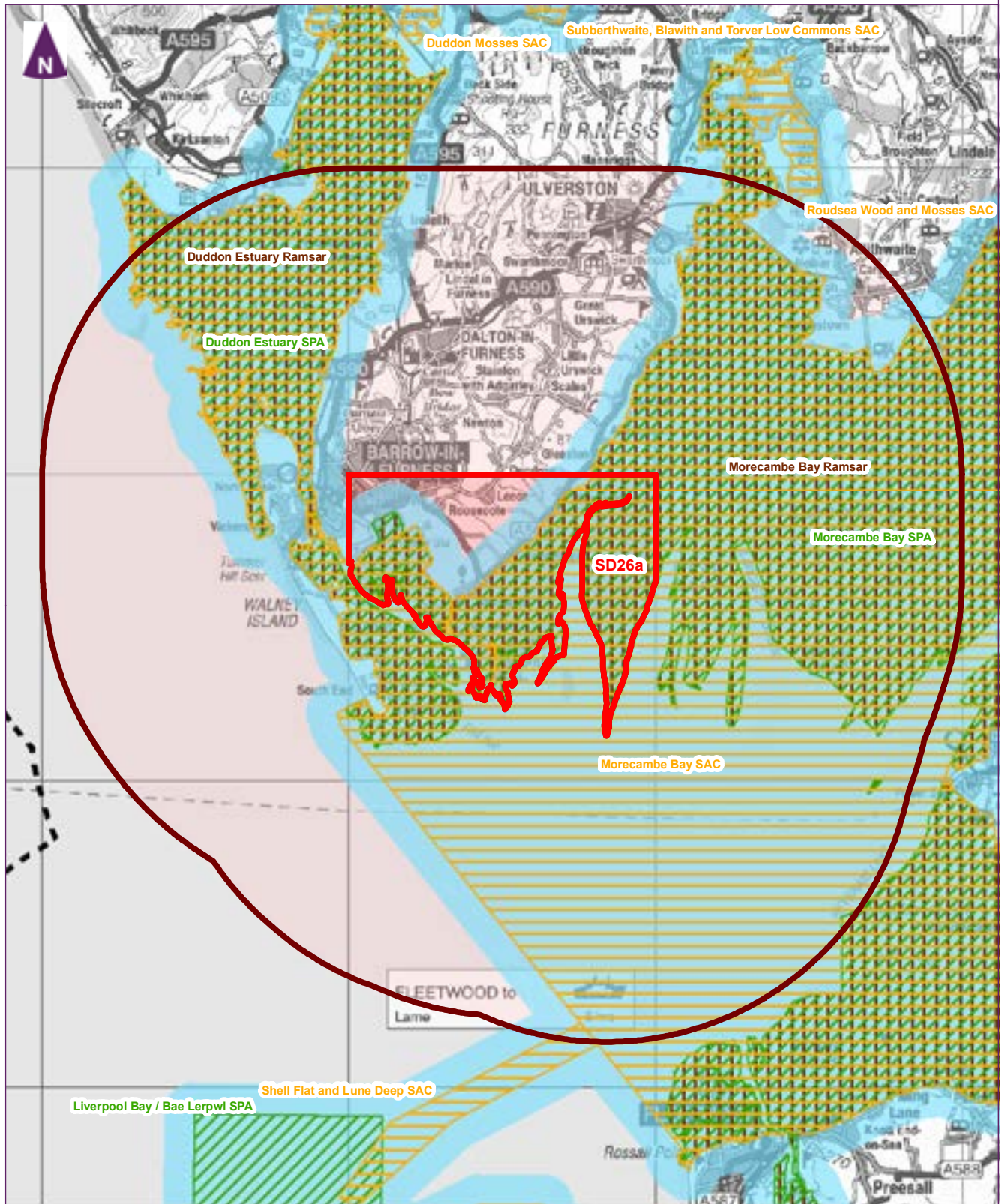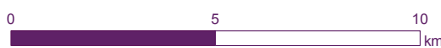- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

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Scale at A4: 1:185,000

0   5   10 km

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Key

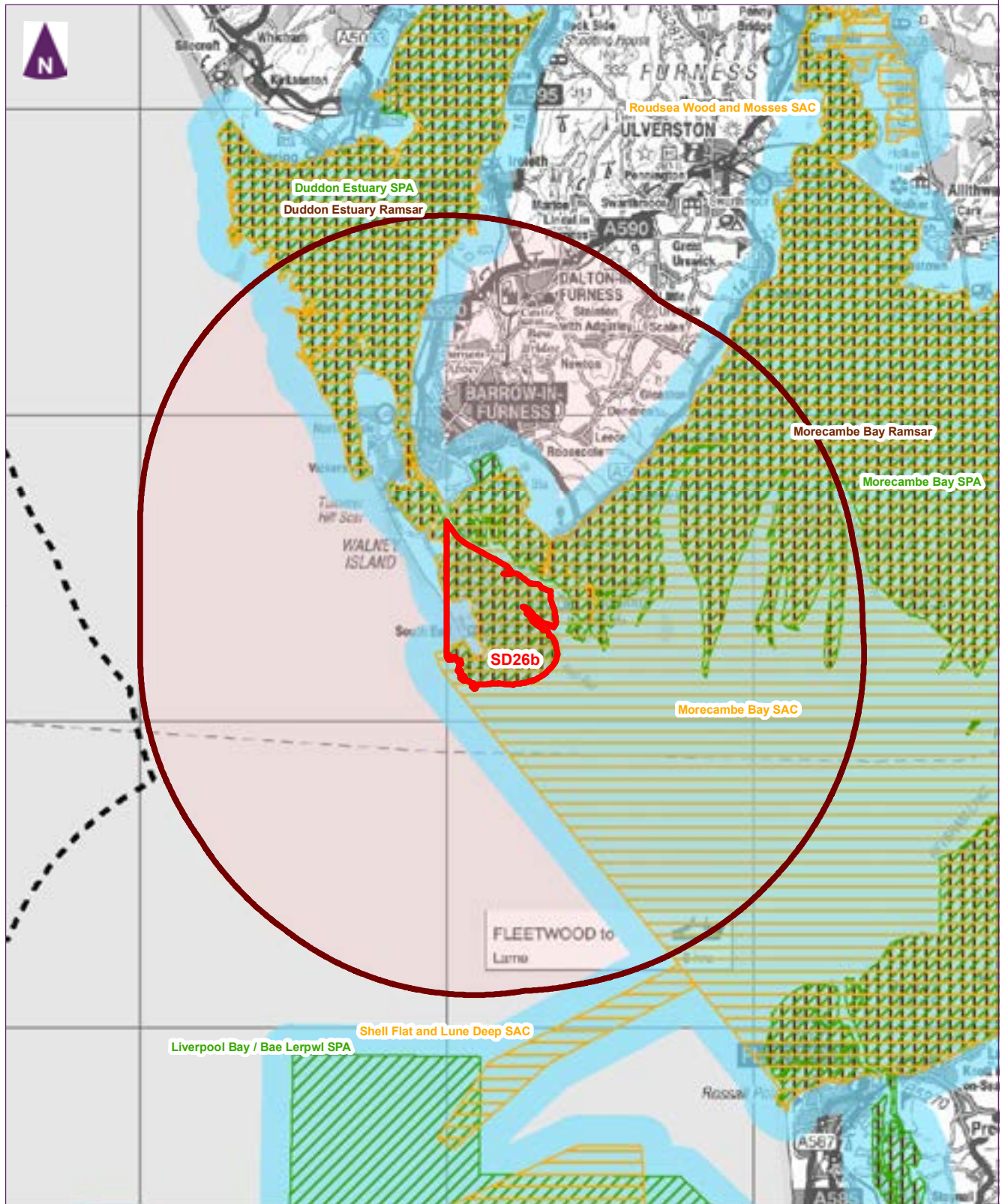|	
▢ Licence block boundary	▭ Special Area of Conservation (SAC)
▢ 10km potential zones of influence	▨ Special Protection Area (SPA)
▢ 1km buffer zone	▥ RAMSAR
▢ 10km buffer zone	

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Figure 1
HRA of Licence Application Block SD40

Scale at A4: 1:185,000

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Key

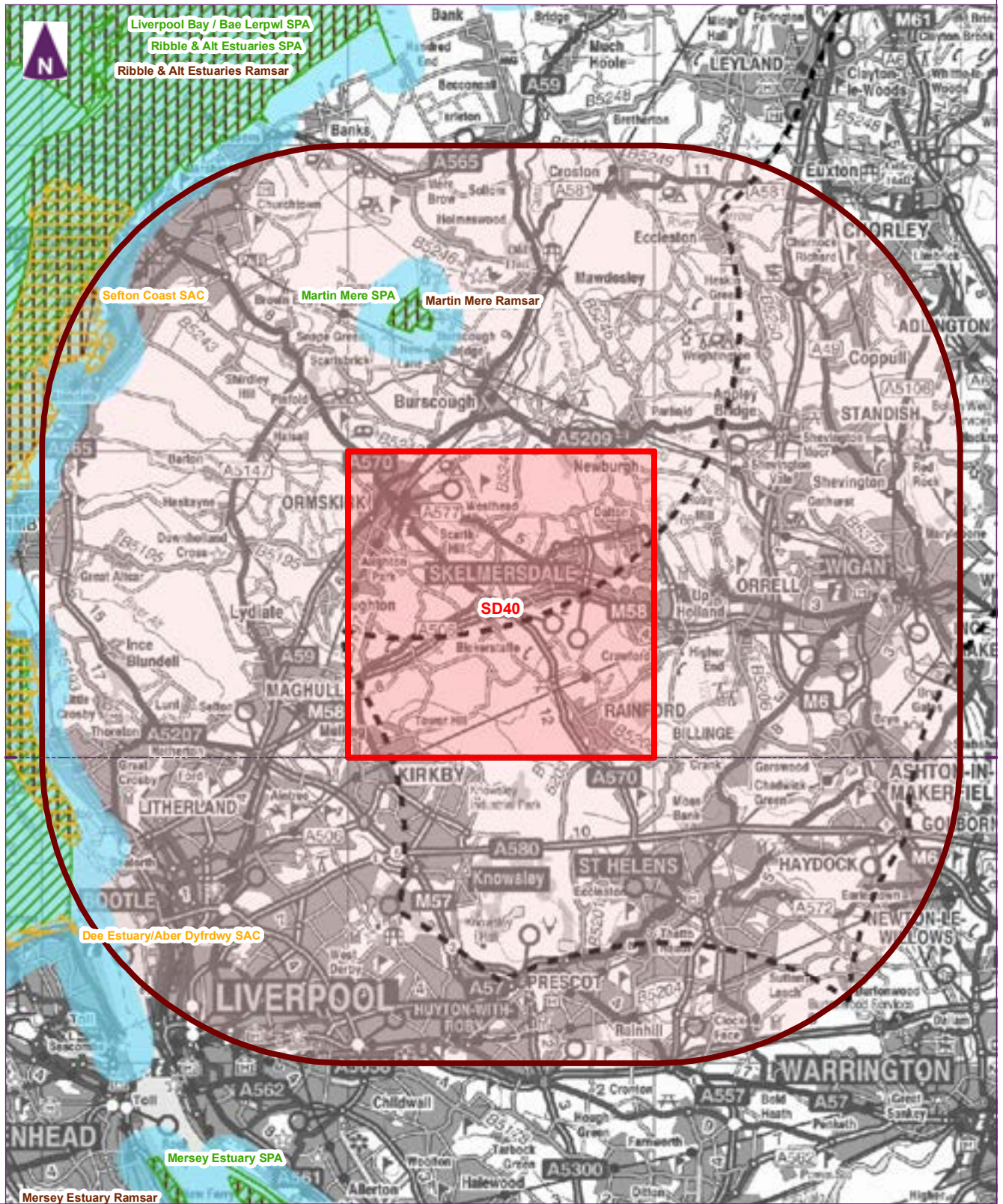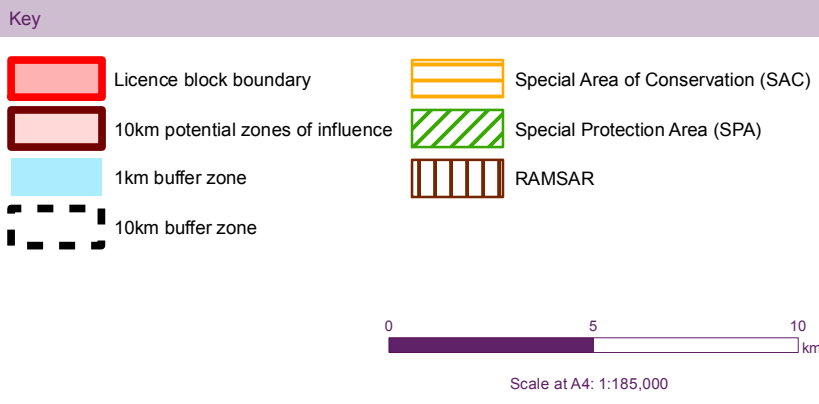|			
	Licence block boundary		Special Area of Conservation (SAC)
	10km potential zones of influence		Special Protection Area (SPA)
	1km buffer zone		RAMSAR
	10km buffer zone		

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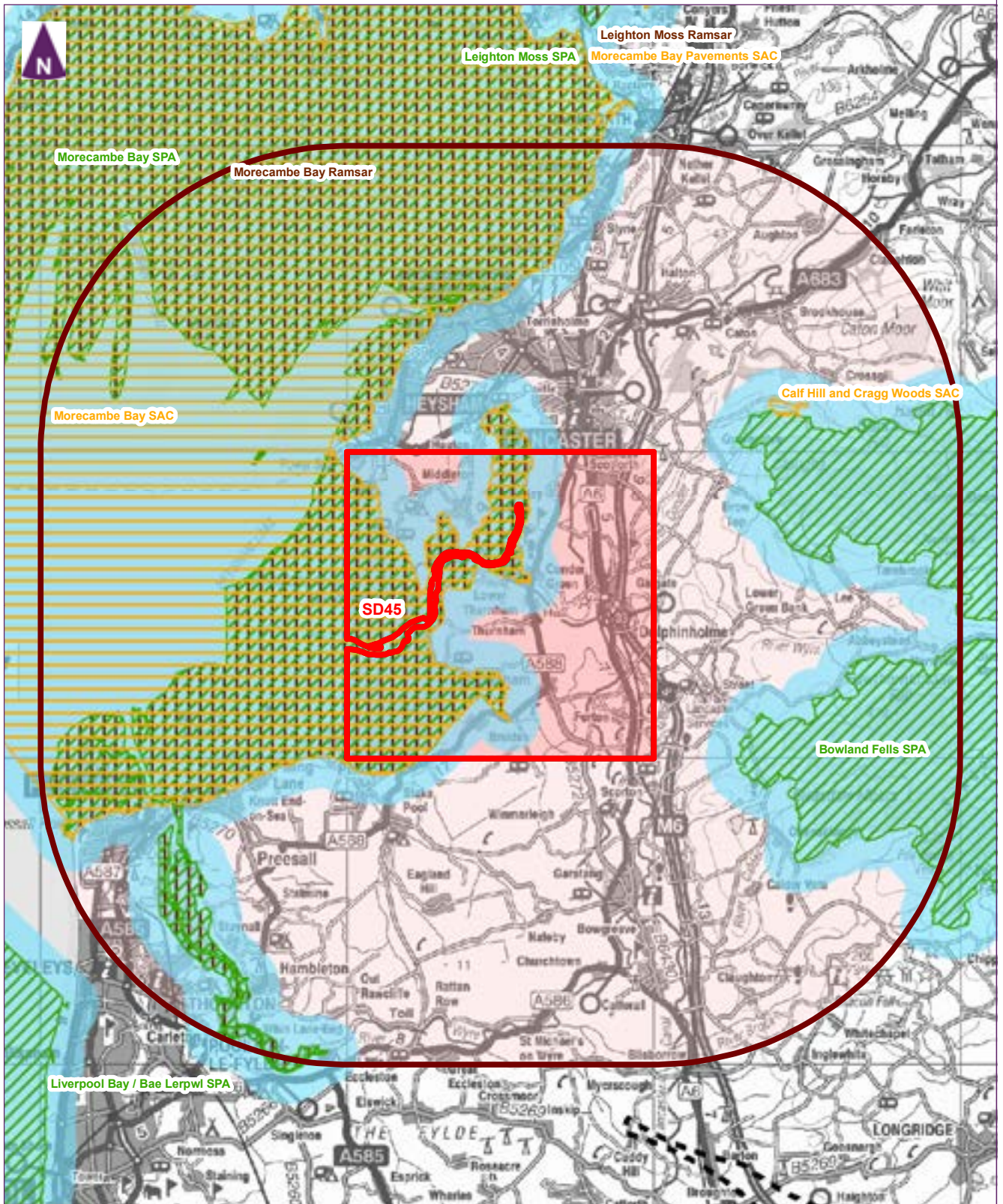
Figure 1 HRA of Licence Application Block SD45

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Scale at A4: 1:185,000

0   5   10 km

file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Labels on map:
Leighton Moss Ramsar
Leighton Moss SPA
Morecambe Bay Pavements SAC
Morecambe Bay SPA
Morecambe Bay Ramsar
Morecambe Bay SAC
Calf Hill and Cragg Woods SAC
SD45
Bowland Fells SPA
Liverpool Bay / Bae Lerpwl SPA

Key

Licence block boundary	
10km potential zones of influence	
1km buffer zone	
10km buffer zone	

Special Area of Conservation (SAC)	
Special Protection Area (SPA)	
RAMSAR	

Labels on map:
- Ribble & Alt Estuaries Ramsar
- Ribble & Alt Estuaries SPA
- Martin Mere Ramsar
- Martin Mere SPA
- SD50
- Manchester Mosses SAC
- Rixton Clay Pits SAC

400000

0   5   10 km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SD50

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

0   5   10 km
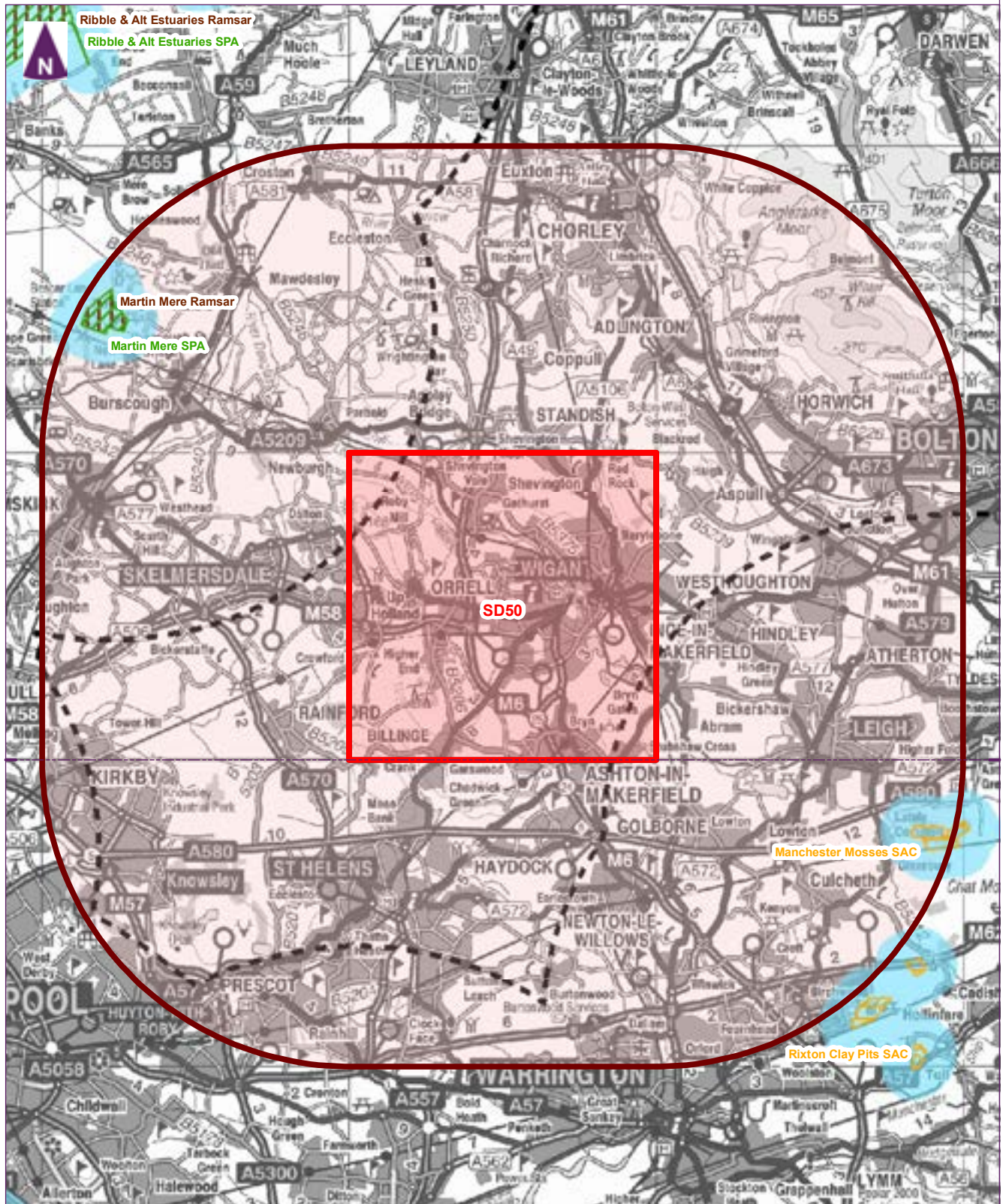
Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SD55

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Map labels:
- Ingleborough Complex SAC
- Leighton Moss Ramsar
- Leighton Moss SPA
- Morecambe Bay Pavements SAC
- Morecambe Bay SPA
- Morecambe Bay Ramsar
- Morecambe Bay SAC
- Calf Hill and Cragg Woods SAC
- Bowland Fells SPA
- SD55
- North Pennine Dales Meadows SAC

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)

SD60d

Manchester Mosses SAC

Rixton Clay Pits SAC

400000

Figure 1
HRA of Licence Application Block SD60d

0   5   10
km
Scale at A4: 1:185,000

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	
1km buffer zone	
10km buffer zone	

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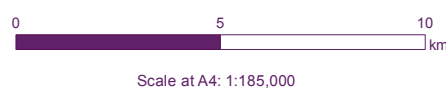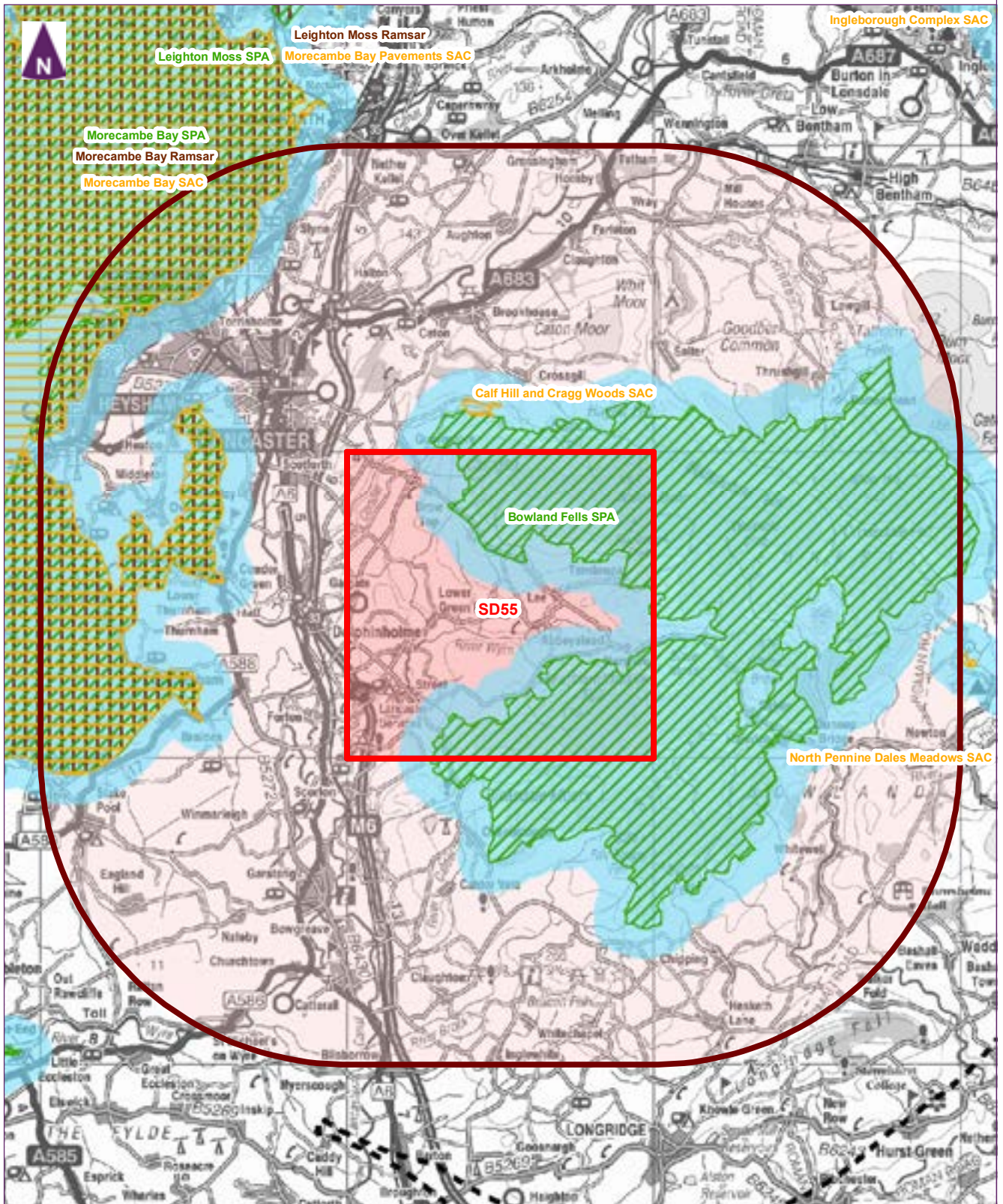**amec foster wheeler**

Figure 1
HRA of Licence Application Block SD61

0   5   10
km
Scale at A4: 1:185,000

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Key

▭	Licence block boundary
▭	10km potential zones of influence
▭	1km buffer zone
▭ ▭ ▭	10km buffer zone
▨	Special Protection Area (SPA)

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**Figure 1
HRA of Licence Application Block SD62**

0   5   10
km

Scale at A4: 1:185,000

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

Bowland Fells SPA

North Pennine Dales Meadows SAC

SD63

0   5   10
km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SD63

November 2015   33917-Lea46c.mxd BROWJ
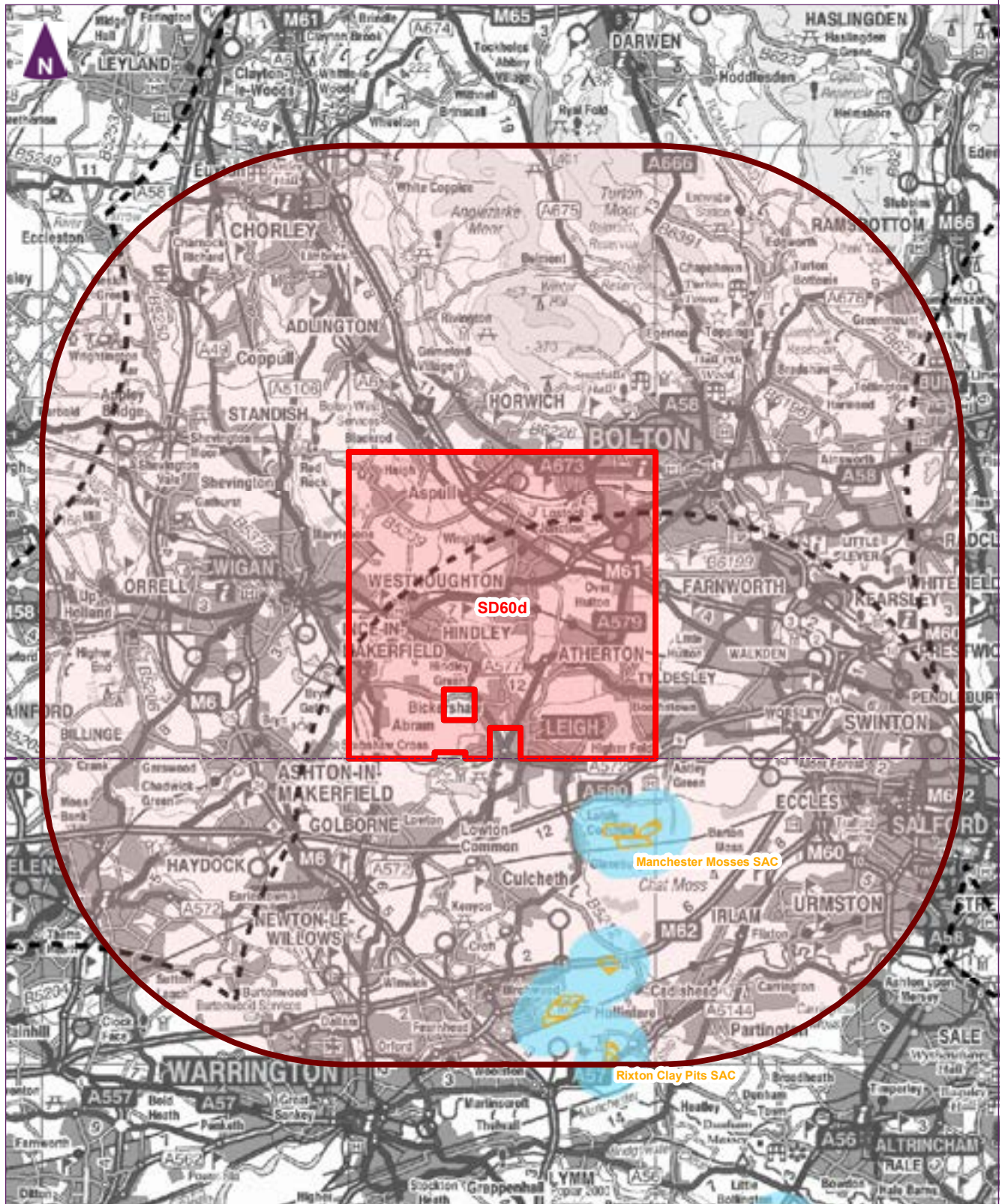
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Key

▢ (red)	Licence block boundary
▢ (dark red outline)	10km potential zones of influence
▢ (cyan)	1km buffer zone
▢ (black dashed)	10km buffer zone
▭ (orange outline)	Special Area of Conservation (SAC)

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
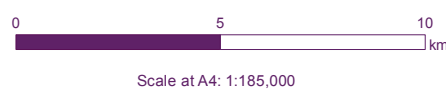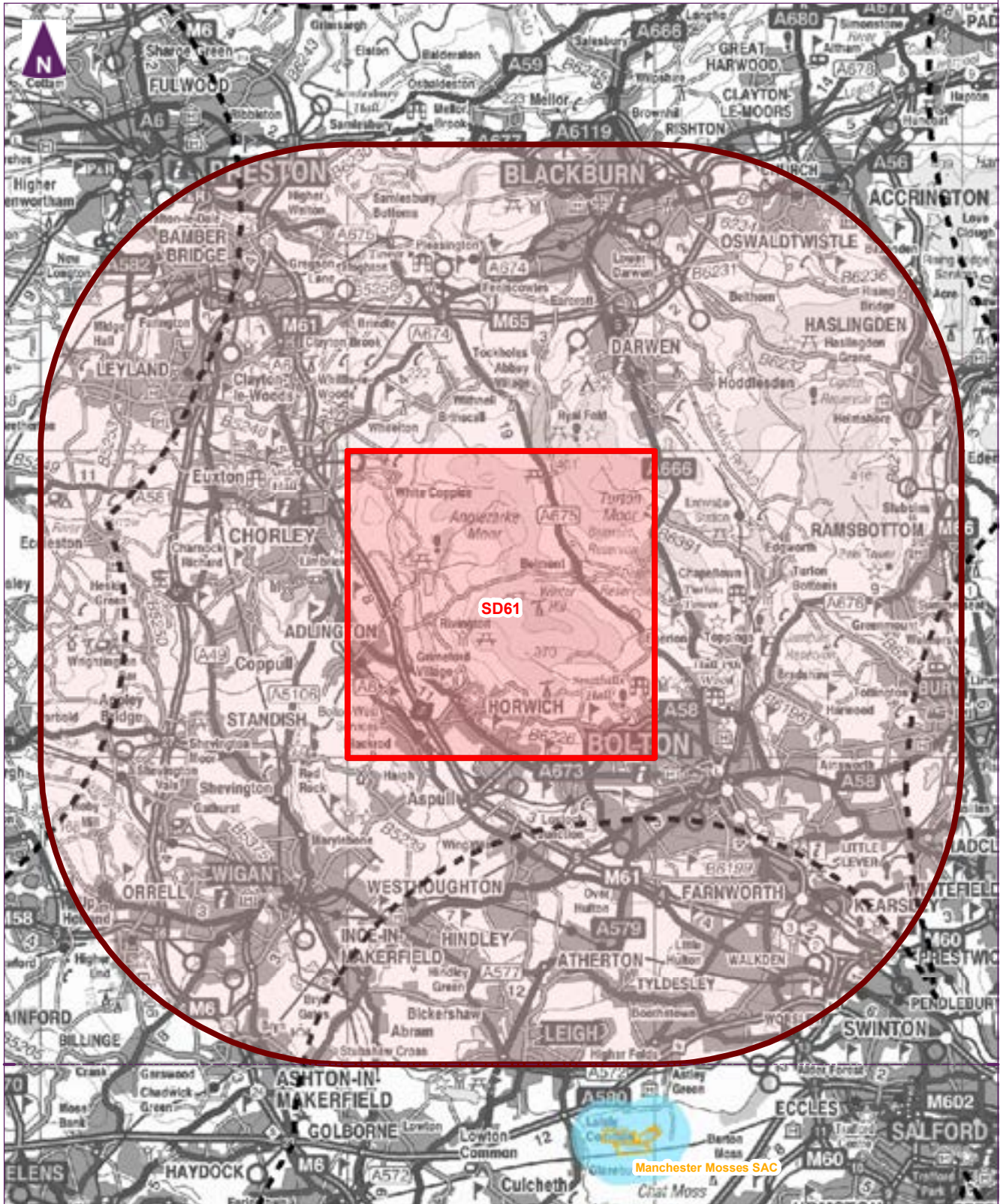Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SD70

0   5   10 km
Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

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Figure 1
HRA of Licence Application Block SD71

0   5   10
km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

Scale at A4: 1:185,000

0   5   10 km

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Figure 1
HRA of Licence Application Block SD72

November 2015   33917-Lea46c.mxd BROWJ

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

Labels on map:
- Bowland Fells SPA
- North Pennine Dales Meadows SAC
- South Pennine Moors Phase 2 SPA
- South Pennine Moors SAC
- SD73

Scale: 0 5 10 km

Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
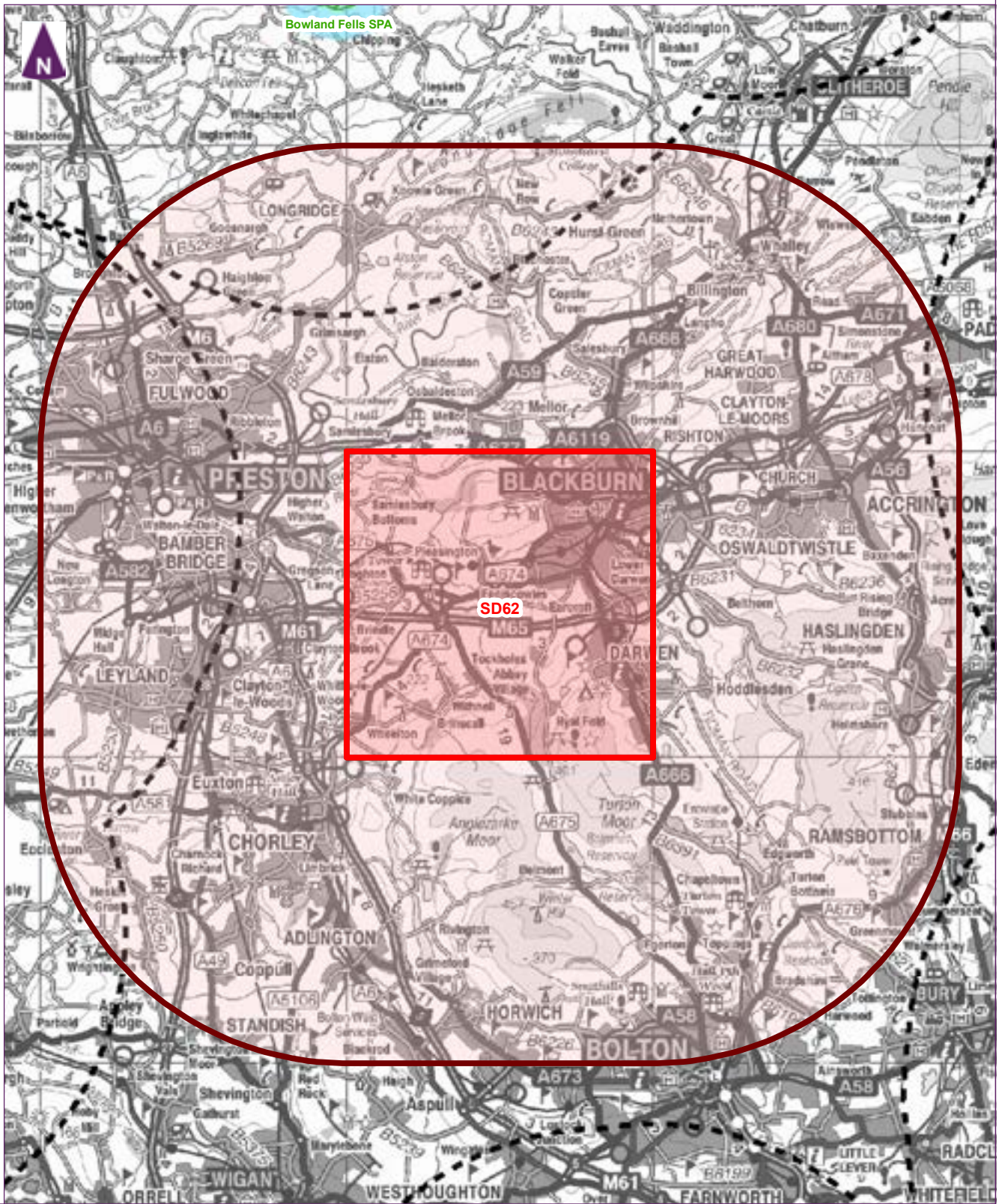Department of Energy and Climate Change

Figure 1
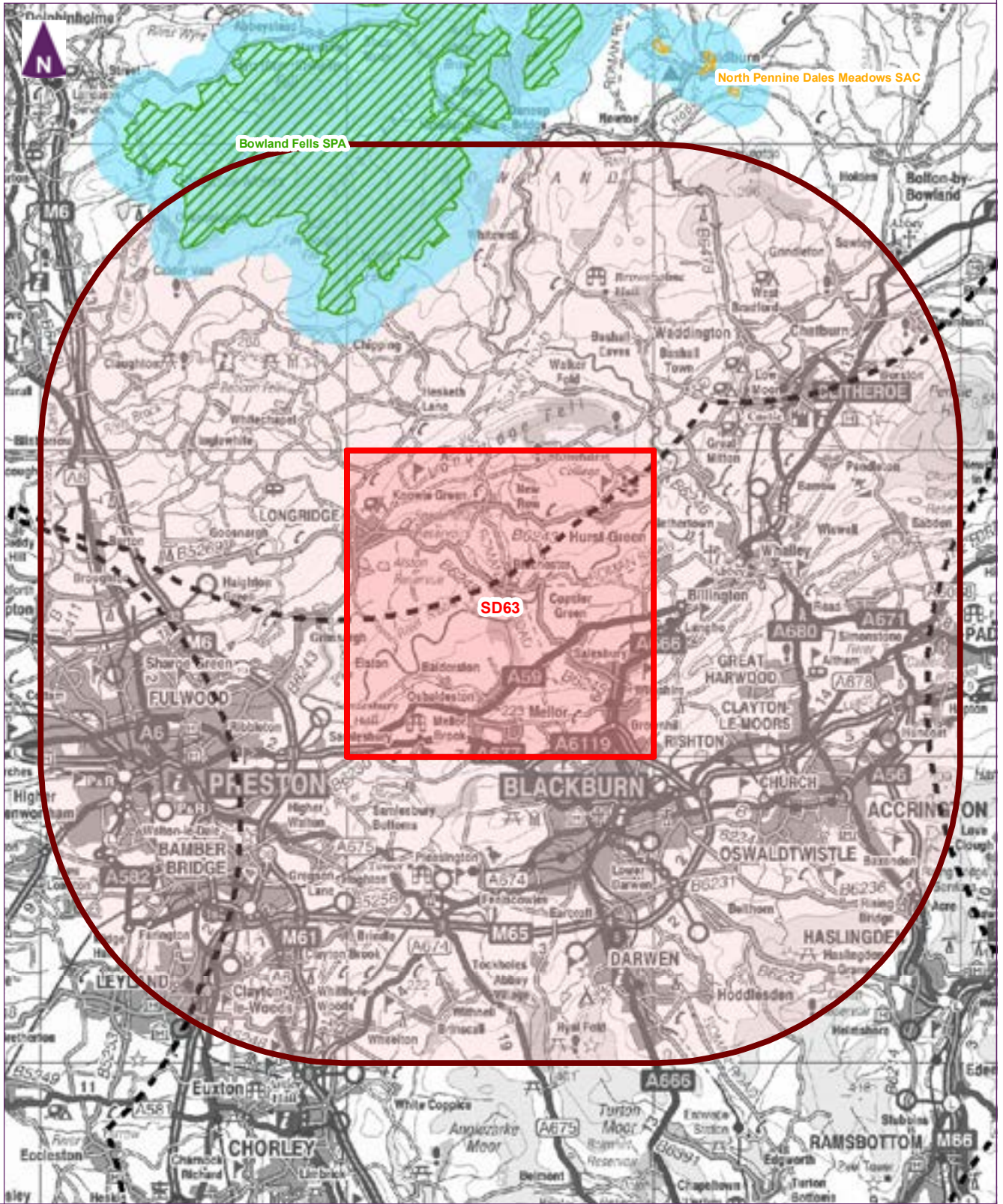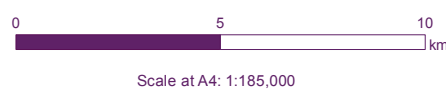**HRA of Licence Application Block SD73**

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Key

▭ Licence block boundary	▭ Special Area of Conservation (SAC)
▭ 10km potential zones of influence	▨ Special Protection Area (SPA)
▮ 1km buffer zone	
┅ 10km buffer zone	

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Applications
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Climate Change

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**Figure 1
HRA of Licence Application Block
SD81**

0   5   10
                              km

Scale at A4: 1:185,000

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Map labels:
South Pennine Moors Phase 2 SPA
South Pennine Moors SAC
SD81
Rochdale Canal SAC
Peak District Moors (South Pennine Moors Phase 1) SPA
Manchester Mosses SAC

400000

Figure 1
HRA of Licence Application Block SD83

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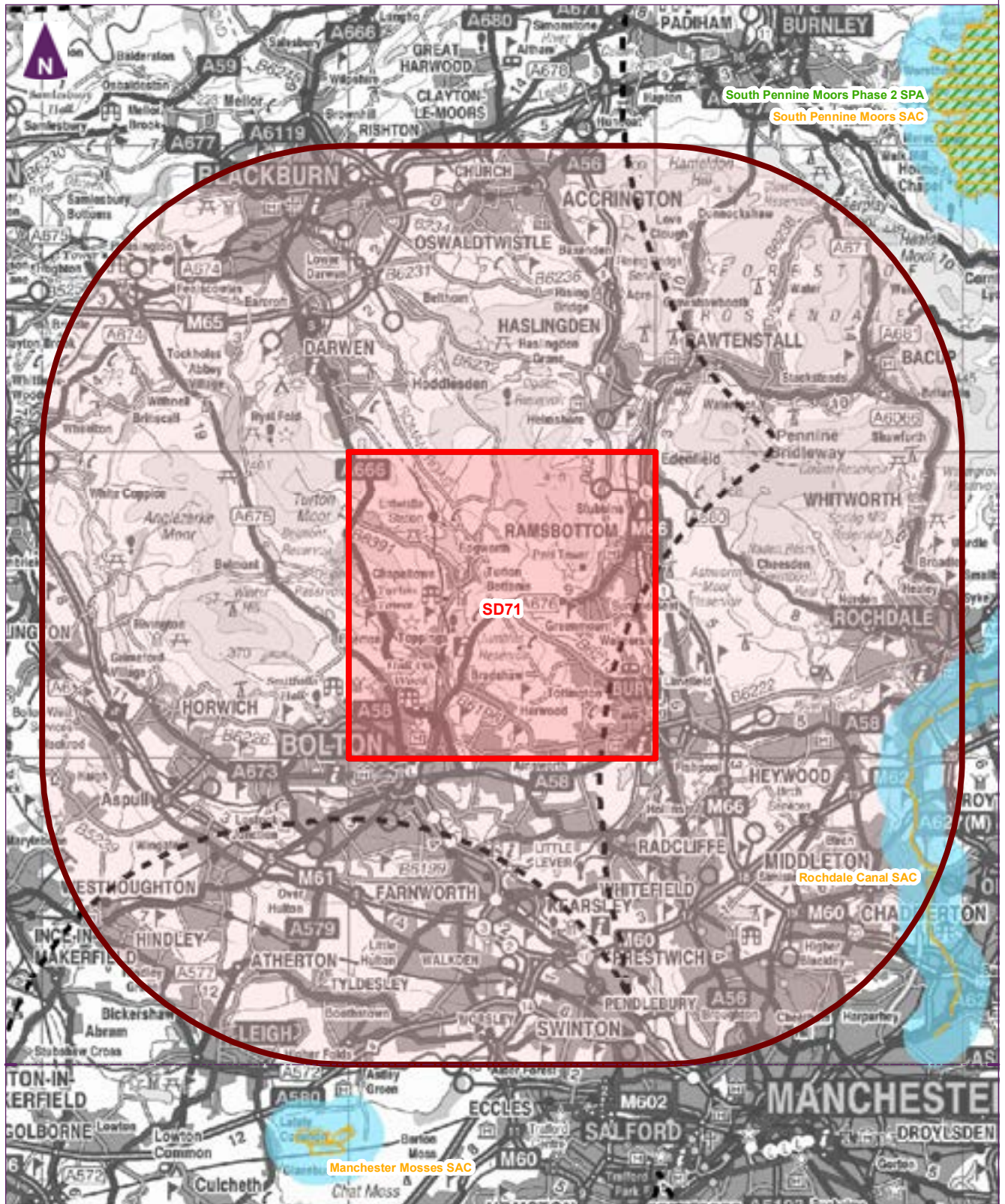
Key

Licence block boundary	
10km potential zones of influence	
1km buffer zone	
10km buffer zone	
Special Area of Conservation (SAC)	
Special Protection Area (SPA)	

Scale at A4: 1:185,000

0   5   10 km

November 2015   33917-Lea46c.mxd BROWJ

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Key

▨	Licence block boundary	▭	Special Area of Conservation (SAC)
▭	10km potential zones of influence	▨	Special Protection Area (SPA)
▨	1km buffer zone		
┄	10km buffer zone		

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
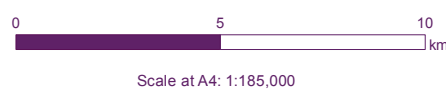Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SE30b

0   5   10
km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

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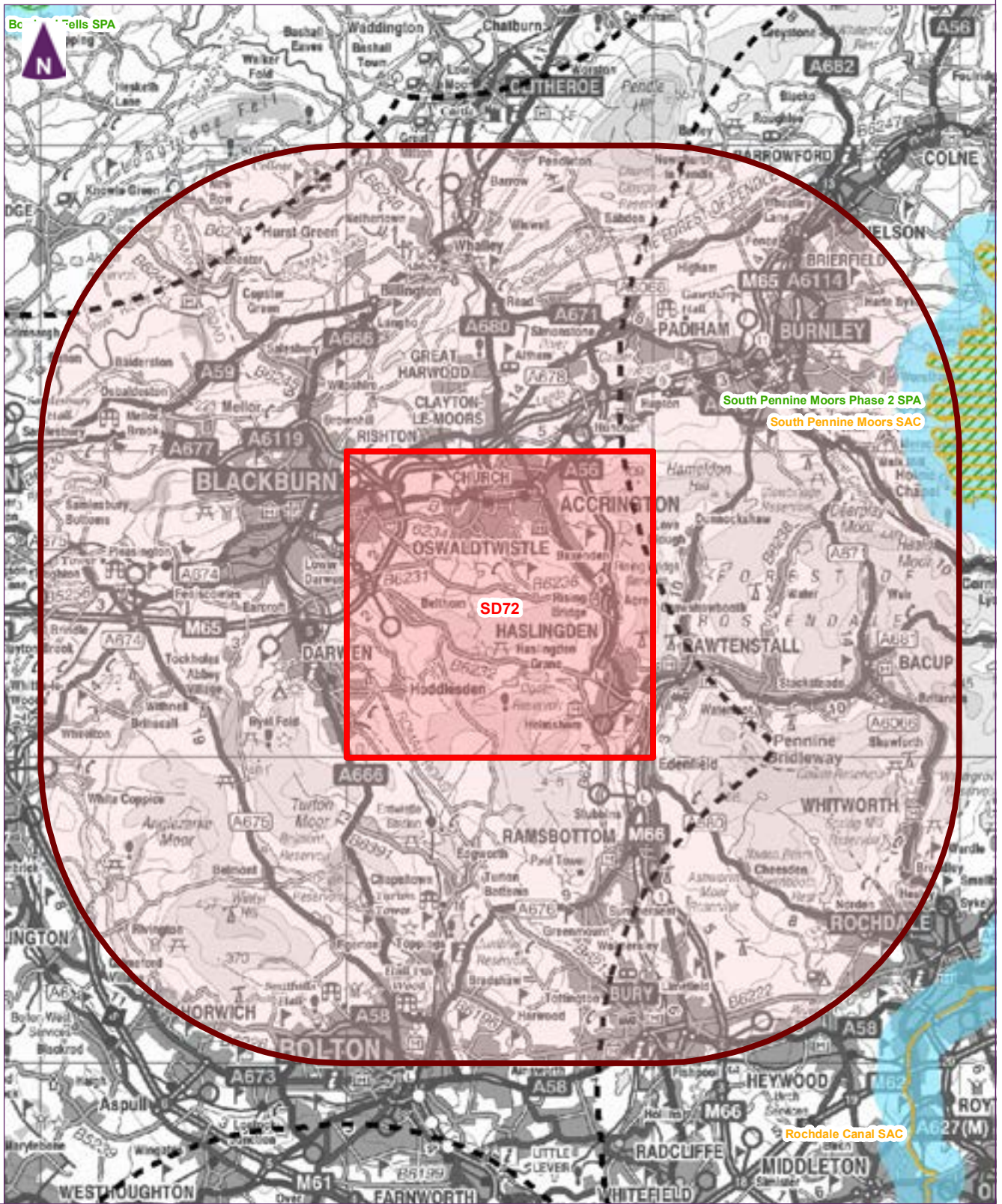**amec foster wheeler**

0   5   10
km

Scale at A4: 1:185,000

Figure 1
HRA of Licence Application Block SE31c

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Map labels: Denby Grange Colliery Ponds SAC; SE31c; Peak District Moors (South Pennine Moors Phase 1) SPA; South Pennine Moors SAC

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SE32b

Denby Grange Colliery Ponds SAC

Key

Licence block boundary		Special Area of Conservation (SAC)	
10km potential zones of influence			
1km buffer zone			
10km buffer zone			

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Figure 1
HRA of Licence Application Block SE32b

0   5   10
km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Key

Licence block boundary

10km potential zones of influence

10km buffer zone
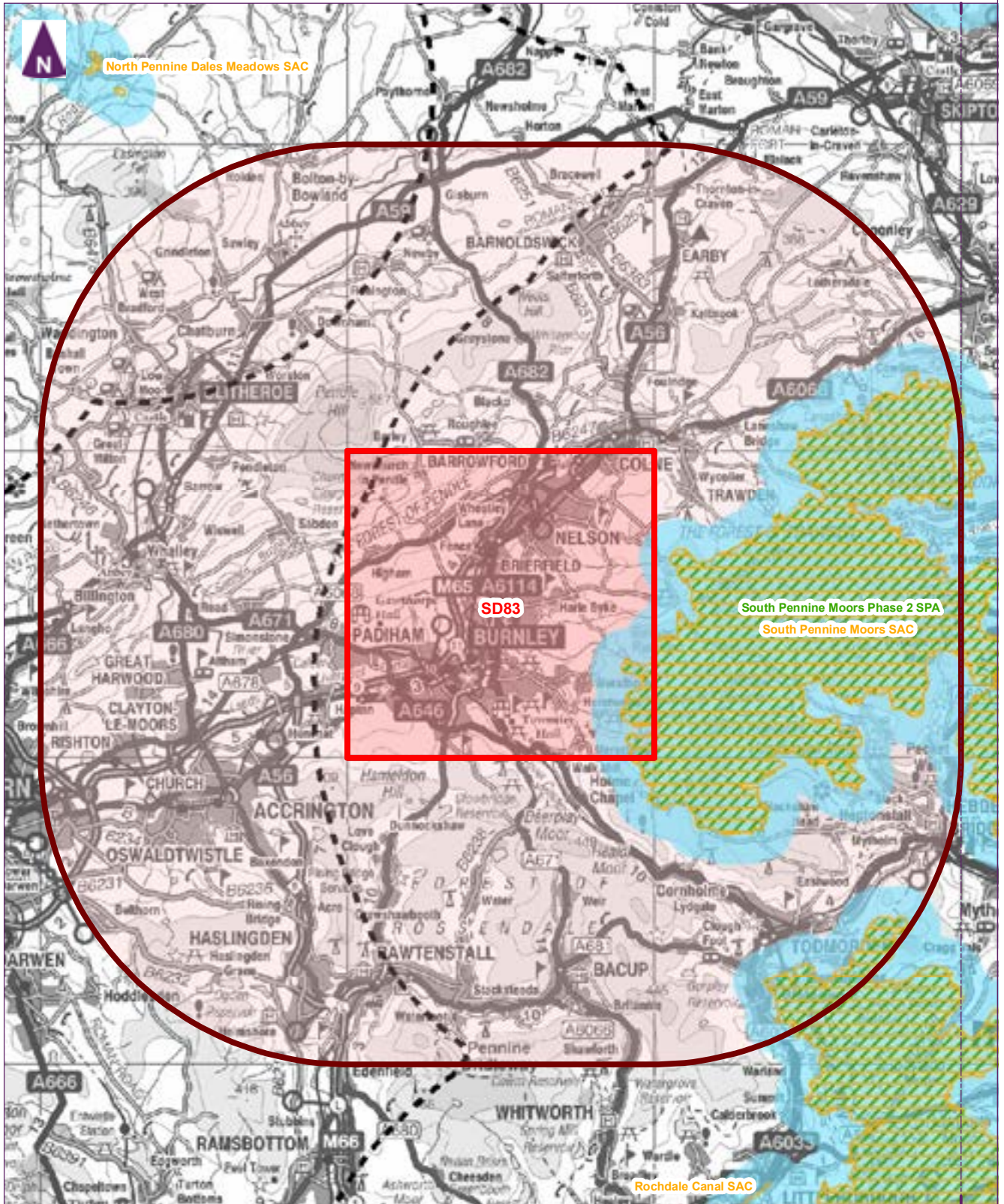
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Figure 1
HRA of Licence Application Block
SE40f

0   5   10
km

Scale at A4: 1:185,000

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Key

Licence block boundary

10km potential zones of influence

10km buffer zone
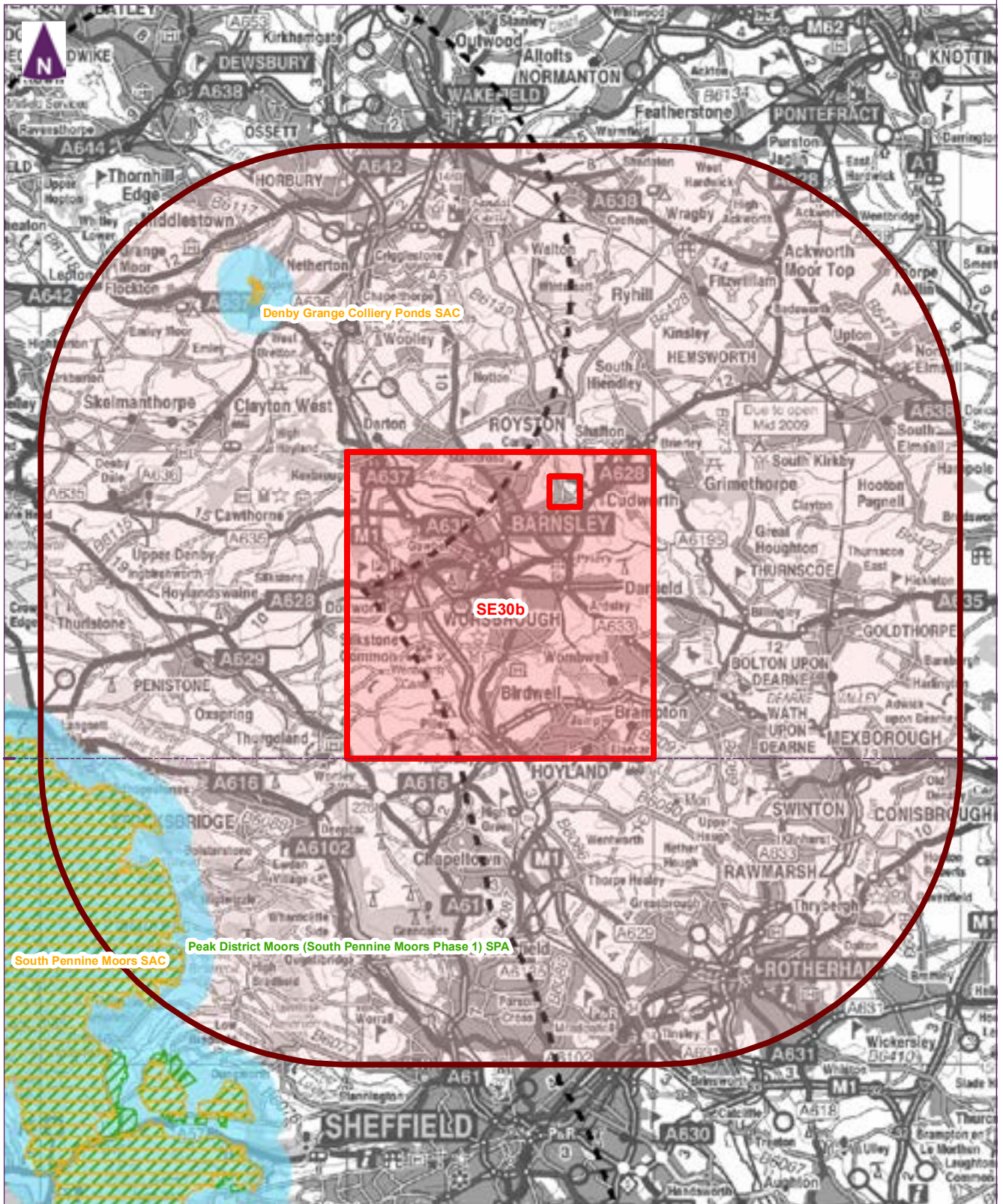
Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SE41e

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0   5   10
km

Scale at A4: 1:185,000

Key

- Licence block boundary
- 10km potential zones of influence
- 10km buffer zone

Scale at A4: 1:185,000

0   5   10 km

Habitat Regulations Assessment
(HRA) of 14th Round Onshore
Oil and Gas Licence
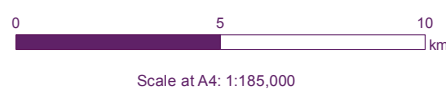Applications
Department of Energy and
Climate Change

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Figure 1
**HRA of Licence Application Block
SE42e**

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

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(HRA) of 14th Round Onshore
Oil and Gas Licence
Applications
Department of Energy and
Climate Change

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Figure 1
HRA of Licence Application Block
SE50b

0   5   10
km

Scale at A4: 1:185,000

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Lower Derwent Valley Ramsar
Lower Derwent Valley SAC
Lower Derwent Valley SPA

River Derwent SAC

SE51b

Thorne Moor SAC

Hatfield Moor SAC

Thorne & Hatfield Moors SPA

Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Special Protection Area (SPA)

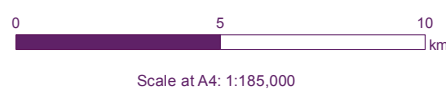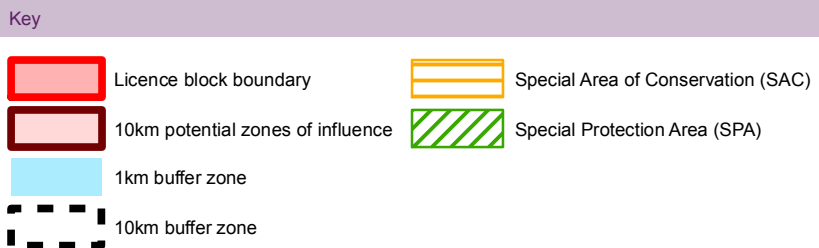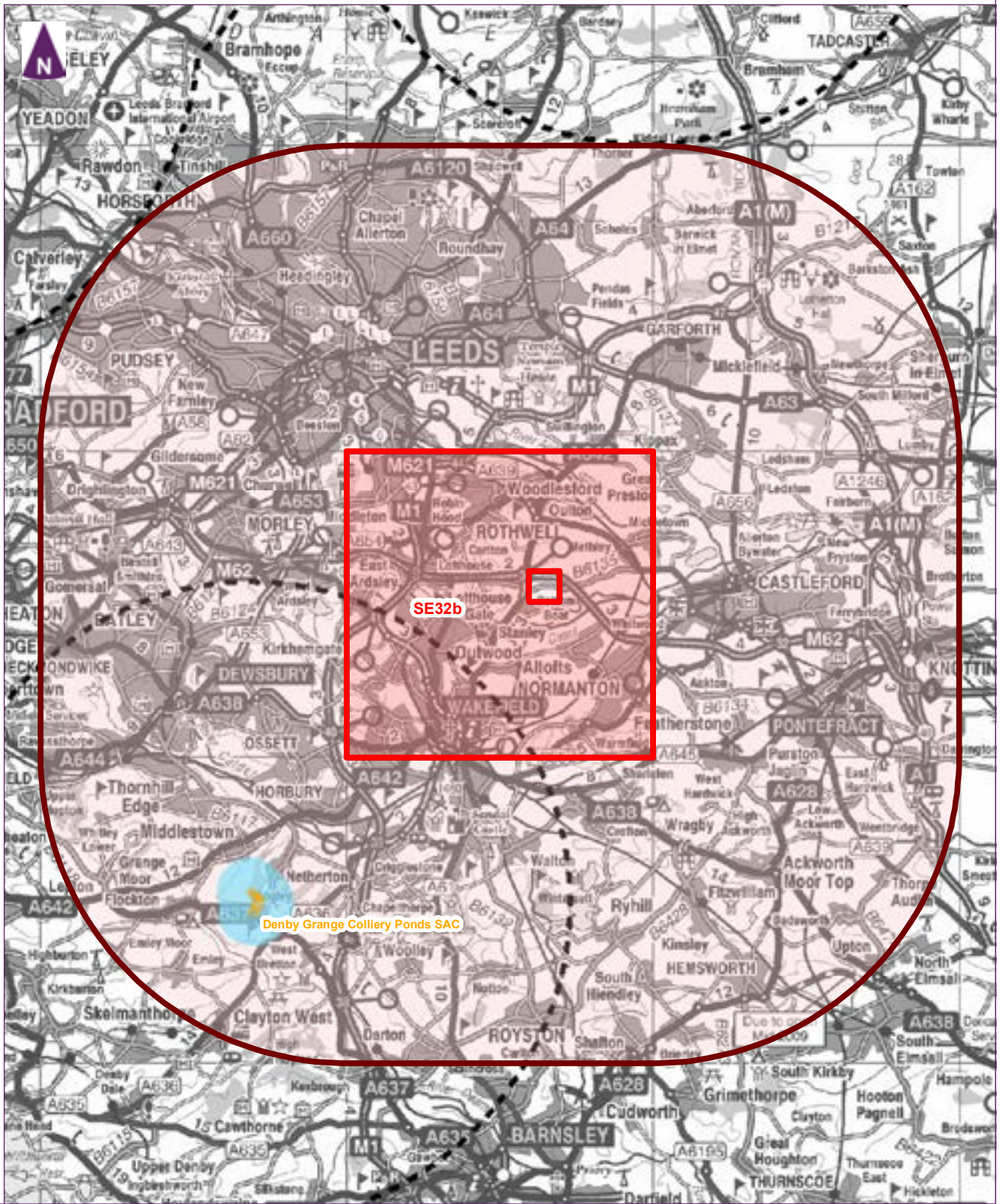RAMSAR

0   5   10
km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SE51b

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file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

400000

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

Lower Derwent Valley SAC
Lower Derwent Valley Ramsar
Lower Derwent Valley SPA
Skipwith Common SAC
River Derwent SAC
Thorne Moor SAC
Thorne & Hatfield Moors SPA
Hatfield Moor SAC

SE52

0   5   10 km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SE52

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Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Special Protection Area (SPA)

North York Moors SPA

North York Moors SAC

SE57

Strensall Common SAC

River Derwent SAC

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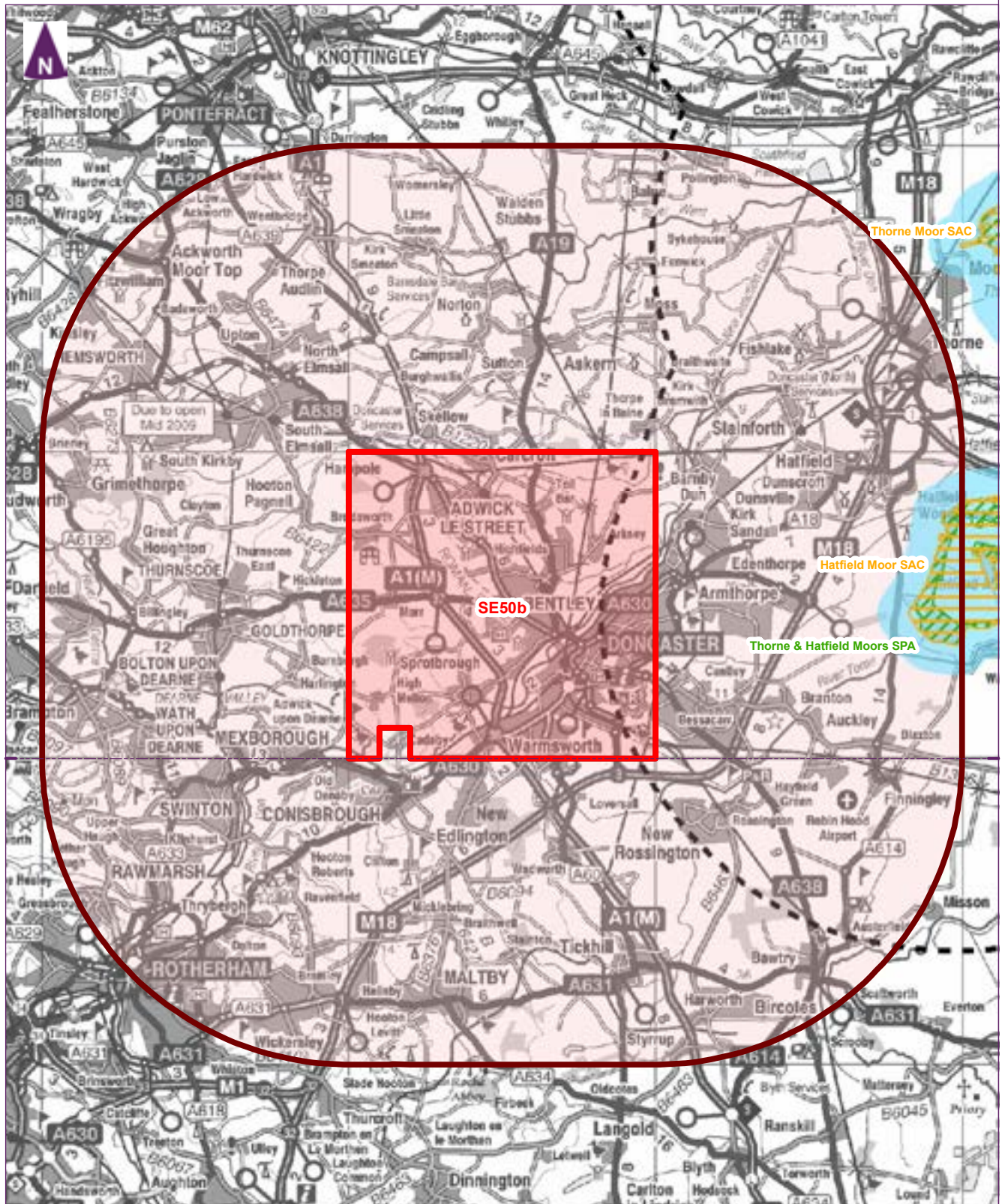wheeler

Figure 1
HRA of Licence Application Block SE57

0   5   10
km
Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

file: H:\Projects\33917_LEA\33917-Lea46b map package\v101\33917-Lea46c.mxd

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

Map labels:
- Lower Derwent Valley SPA
- Lower Derwent Valley Ramsar
- Lower Derwent Valley SAC
- River Derwent SAC
- Humber Estuary SPA
- Humber Estuary SAC
- Humber Estuary Ramsar
- Thorne & Hatfield Moors SPA
- Thorne Moor SAC
- Hatfield Moor SAC
- SE61d

Scale at A4: 1:185,000

0   5   10 km

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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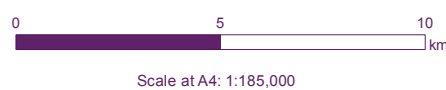
amec foster wheeler

Figure 1
HRA of Licence Application Block SE61d

November 2015   33917-Lea46c.mxd BROWJ

file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

400000

Key

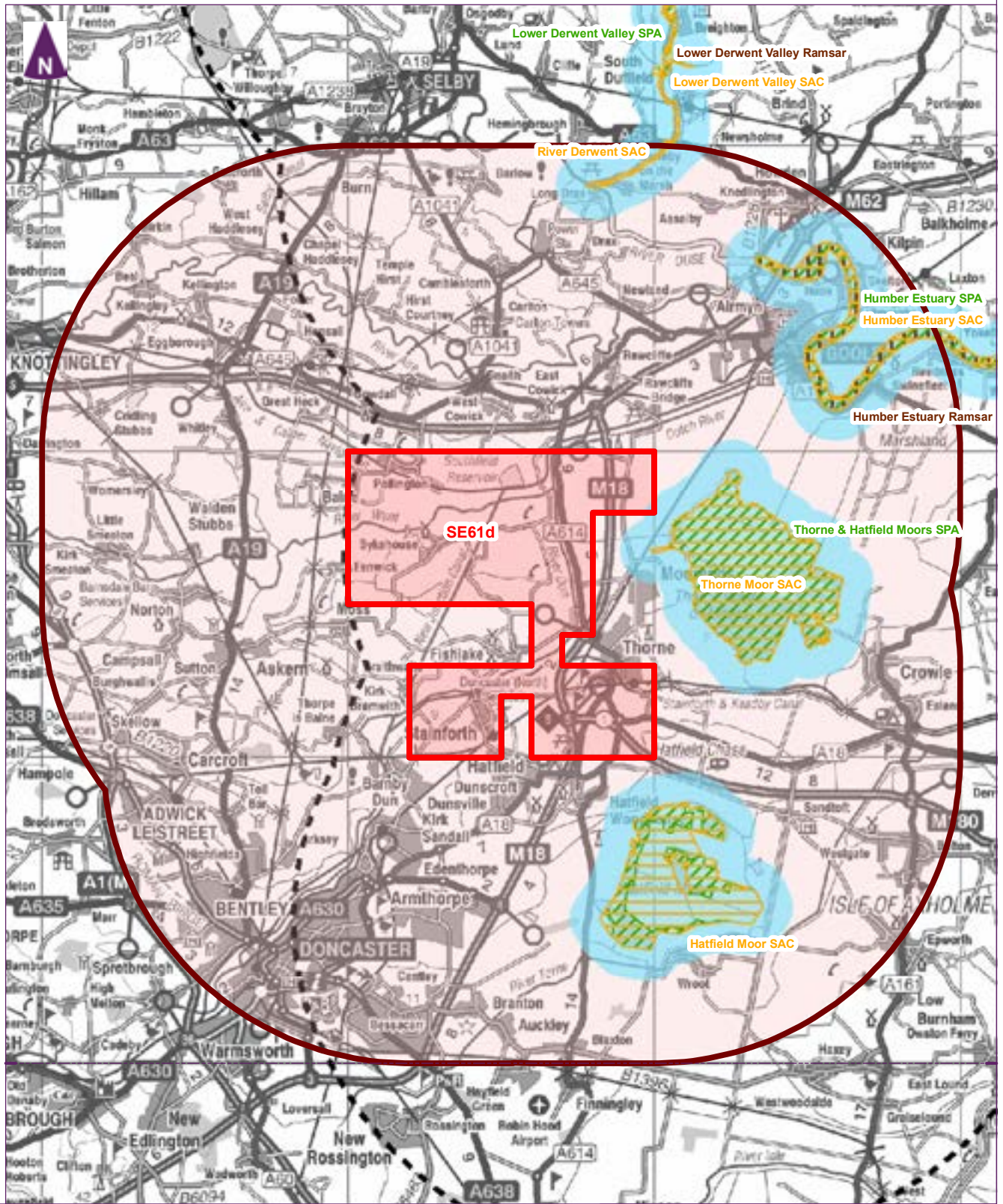|	
▨ (red)	Licence block boundary
▨ (dark red)	10km potential zones of influence
▨ (cyan)	1km buffer zone
▨ (black dashed)	10km buffer zone
▨ (orange)	Special Area of Conservation (SAC)
▨ (green hatched)	Special Protection Area (SPA)
▨ (brown vertical)	RAMSAR

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Figure 1
HRA of Licence Application Block SE65

0   5   10 km

Scale at A4: 1:185,000

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

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Figure 1
HRA of Licence Application Block SE66

0   5   10 km

Scale at A4: 1:185,000

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Labels on map: Strensall Common SAC; River Derwent SAC; Lower Derwent Valley SPA; Lower Derwent Valley SAC; Lower Derwent Valley Ramsar; SE66

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

Map labels: North York Moors SAC, North York Moors SPA, River Derwent SAC, Strensall Common SAC, SE67a

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
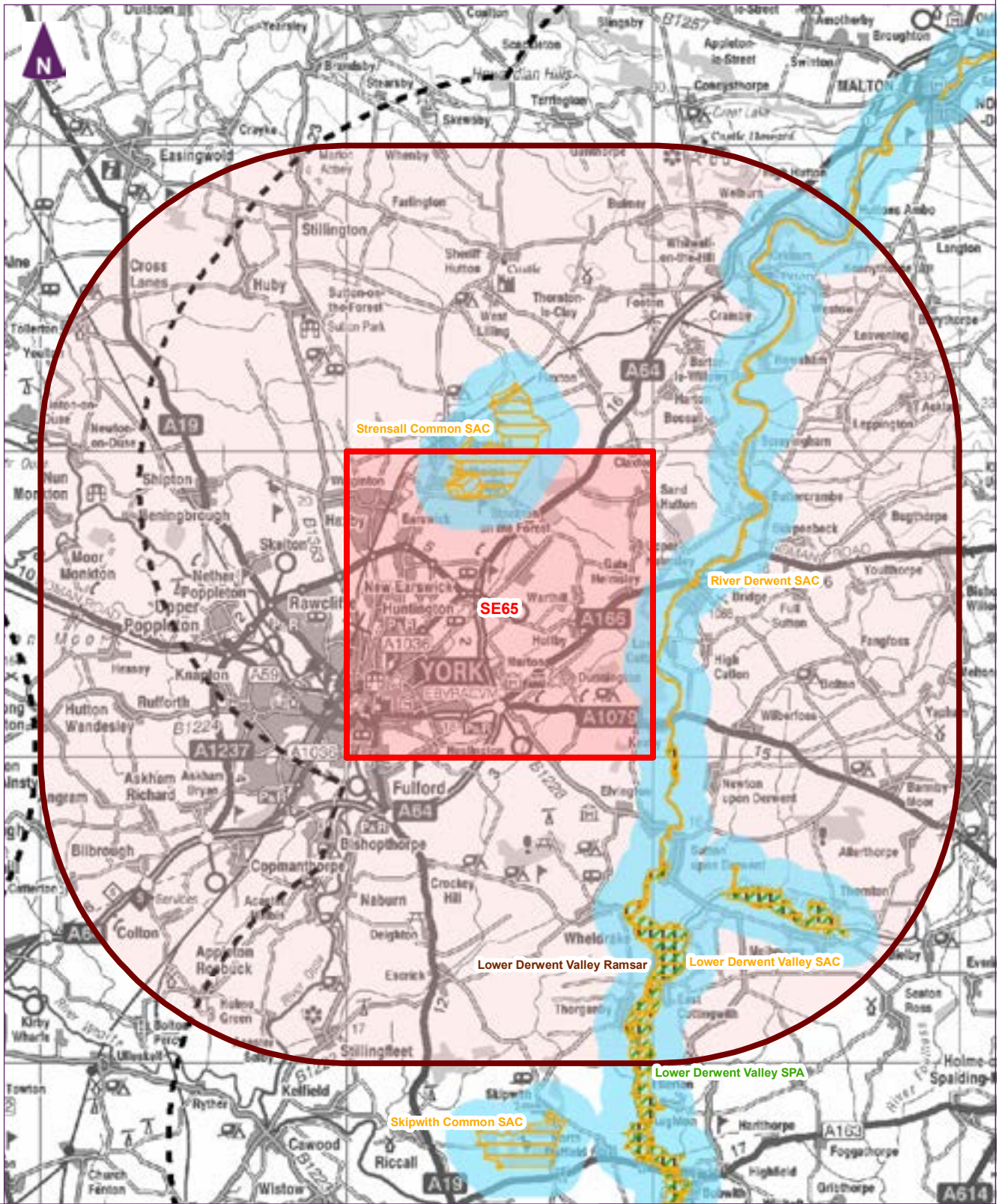Department of Energy and Climate Change

Figure 1
HRA of Licence Application Block SE67a

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0   5   10 km
Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

file: H:\Projects\33917_LEA\33917-Lea46b map package\v101\33917-Lea46c.mxd

Key

▨ Licence block boundary	▨ Special Area of Conservation (SAC)
▨ 10km potential zones of influence	▨ Special Protection Area (SPA)
▨ 1km buffer zone	
▨ 10km buffer zone	

Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
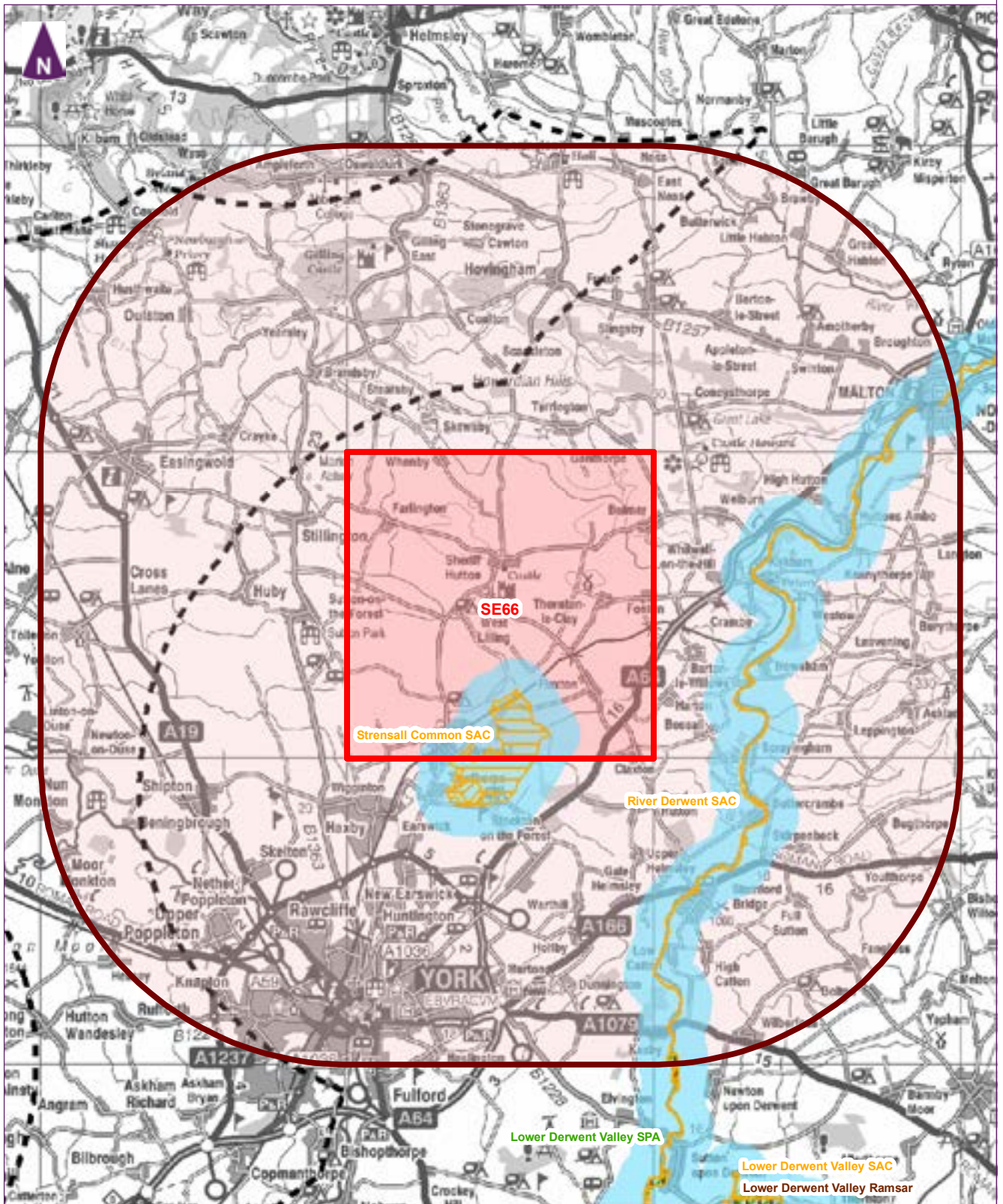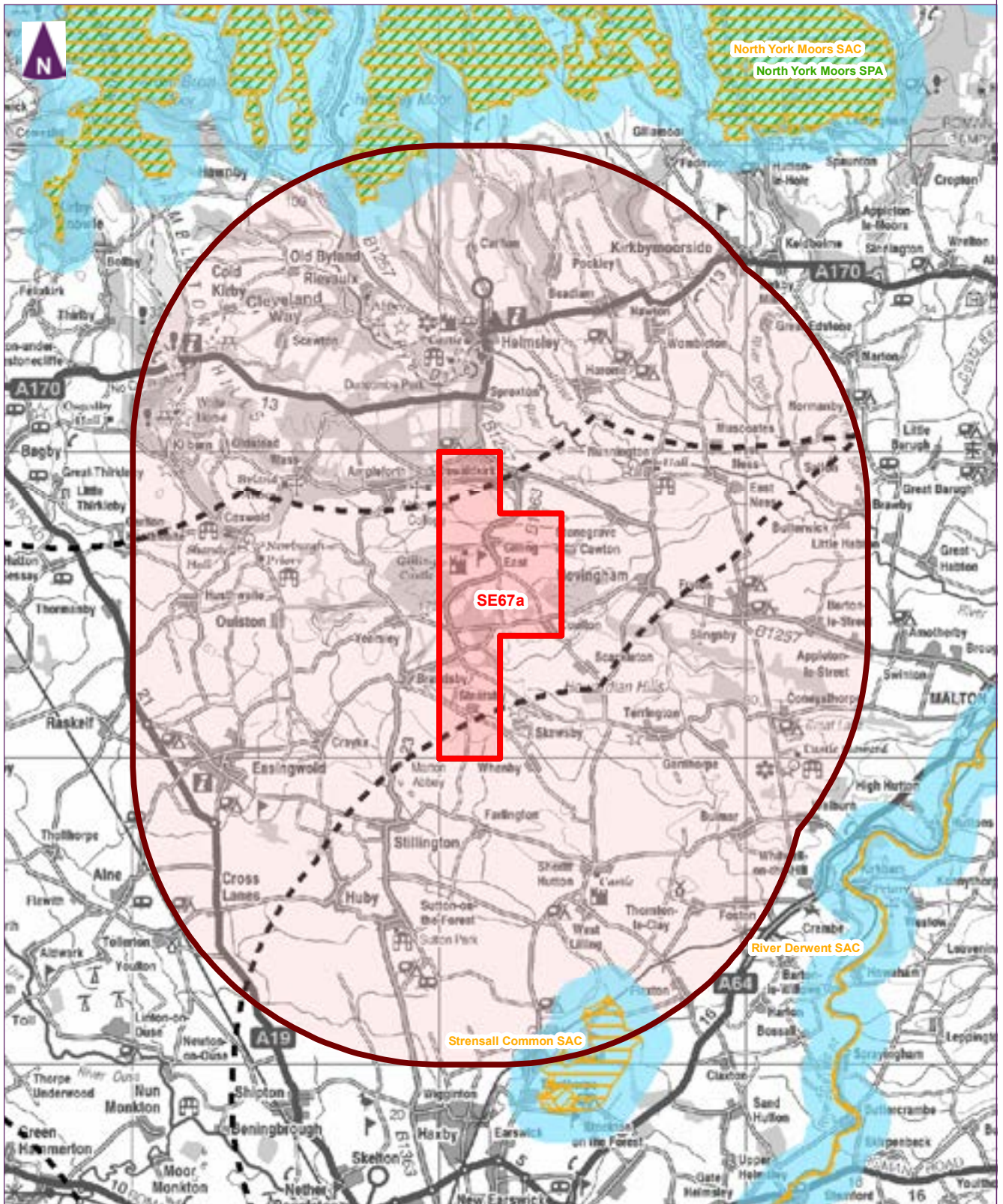Department of Energy and Climate Change

Figure 1
HRA of Licence Application Block SE68b

November 2015   33917-Lea46c.mxd BROWJ

Map labels: North York Moors SPA, North York Moors SAC, Arncliff and Park Hole Woods SAC, River Derwent SAC, SE68b

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

SE69

North York Moors SAC

North York Moors SPA

Arncliff and Park Hole Woods SAC

0   5   10 km

Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
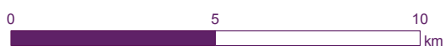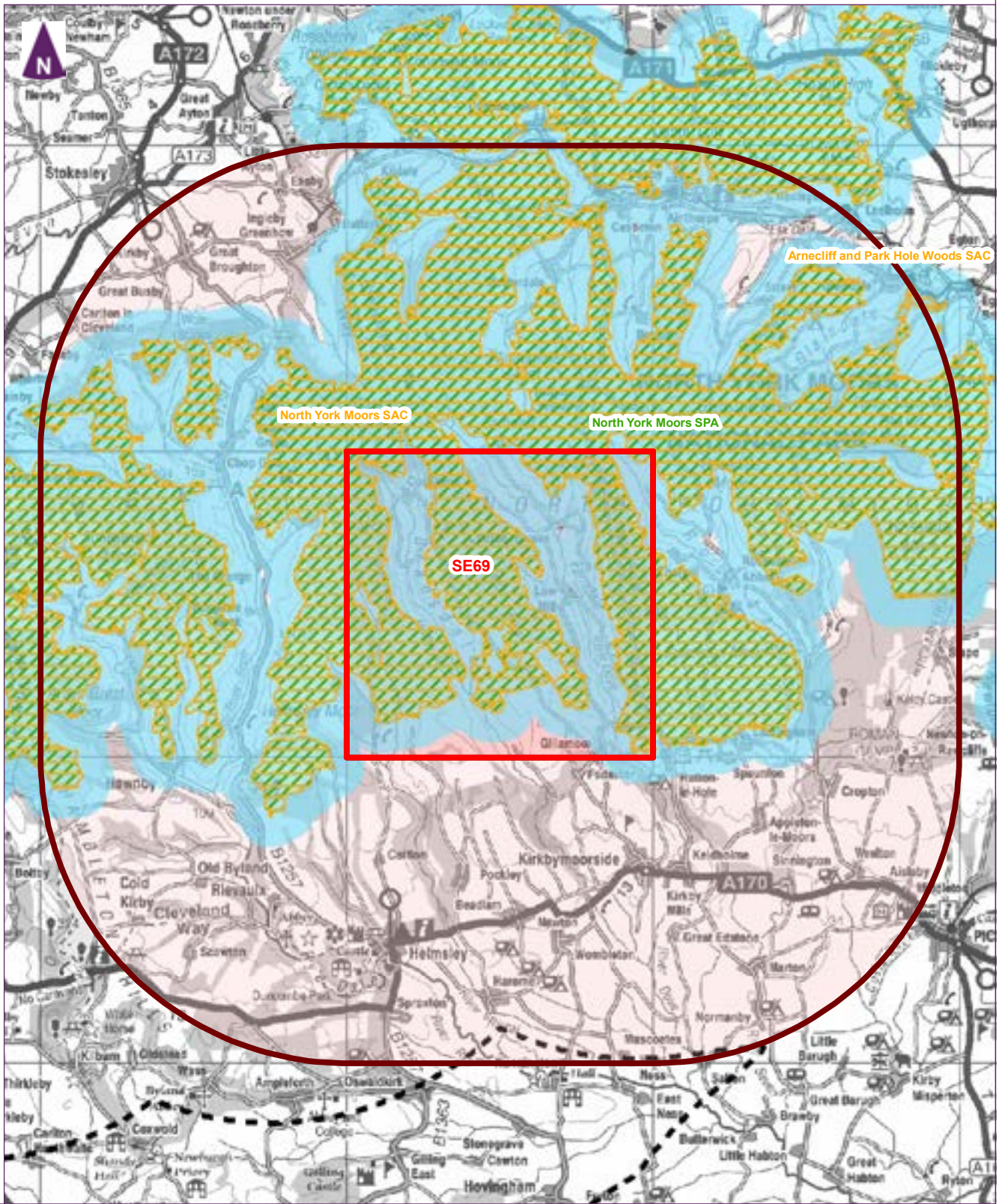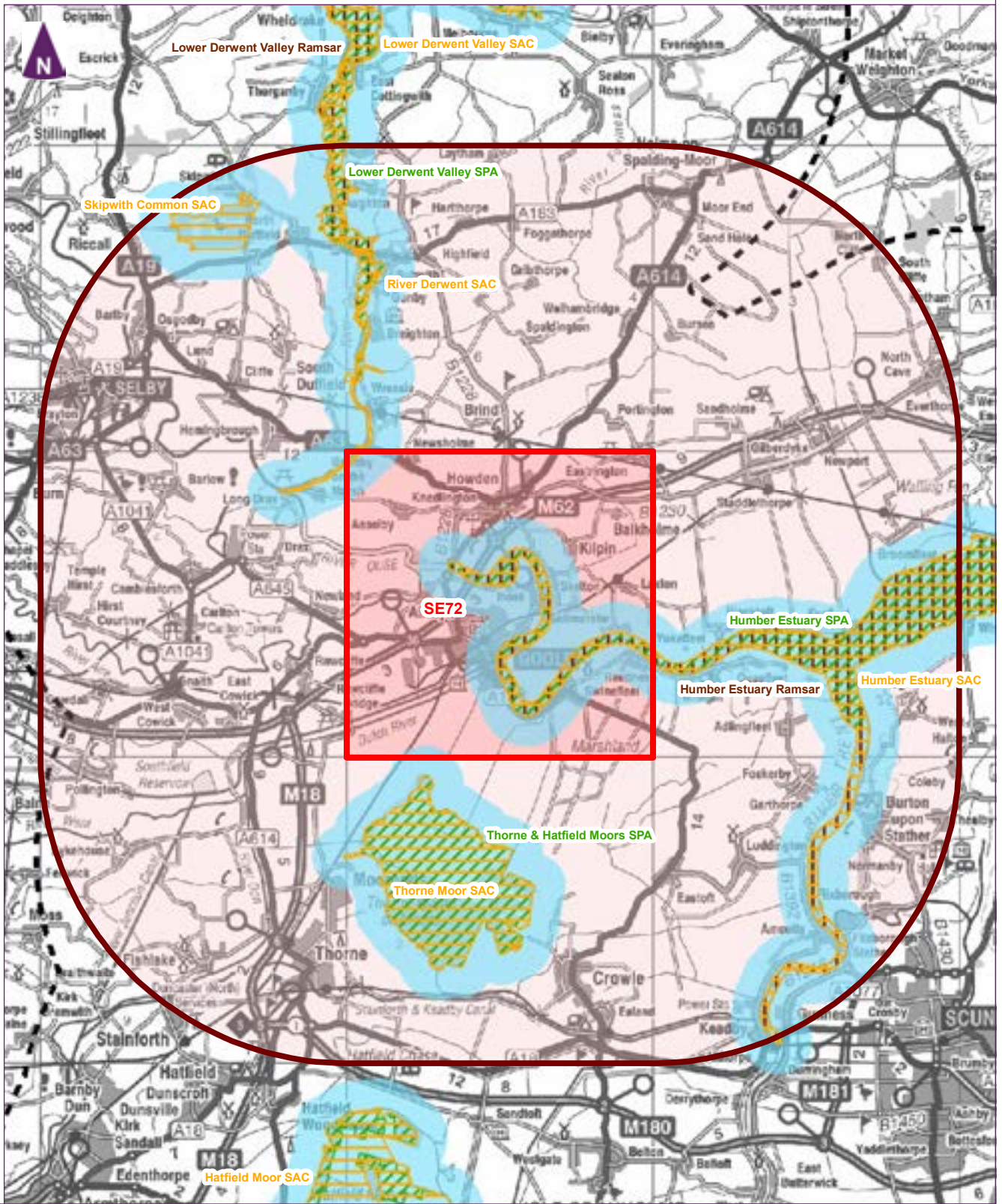Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SE69

November 2015   33917-Lea46c.mxd BROWJ

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

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Figure 1
HRA of Licence Application Block SE72

0   5   10
km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

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Figure 1
**HRA of Licence Application Block
SE73**

Scale at A4: 1:185,000

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Map labels:
- Lower Derwent Valley Ramsar
- Lower Derwent Valley SAC
- River Derwent SAC
- Skipwith Common SAC
- Lower Derwent Valley SPA
- SE73
- Humber Estuary Ramsar
- Humber Estuary SAC
- Humber Estuary SPA
- Thorne & Hatfield Moors SPA
- Thorne Moor SAC

Key

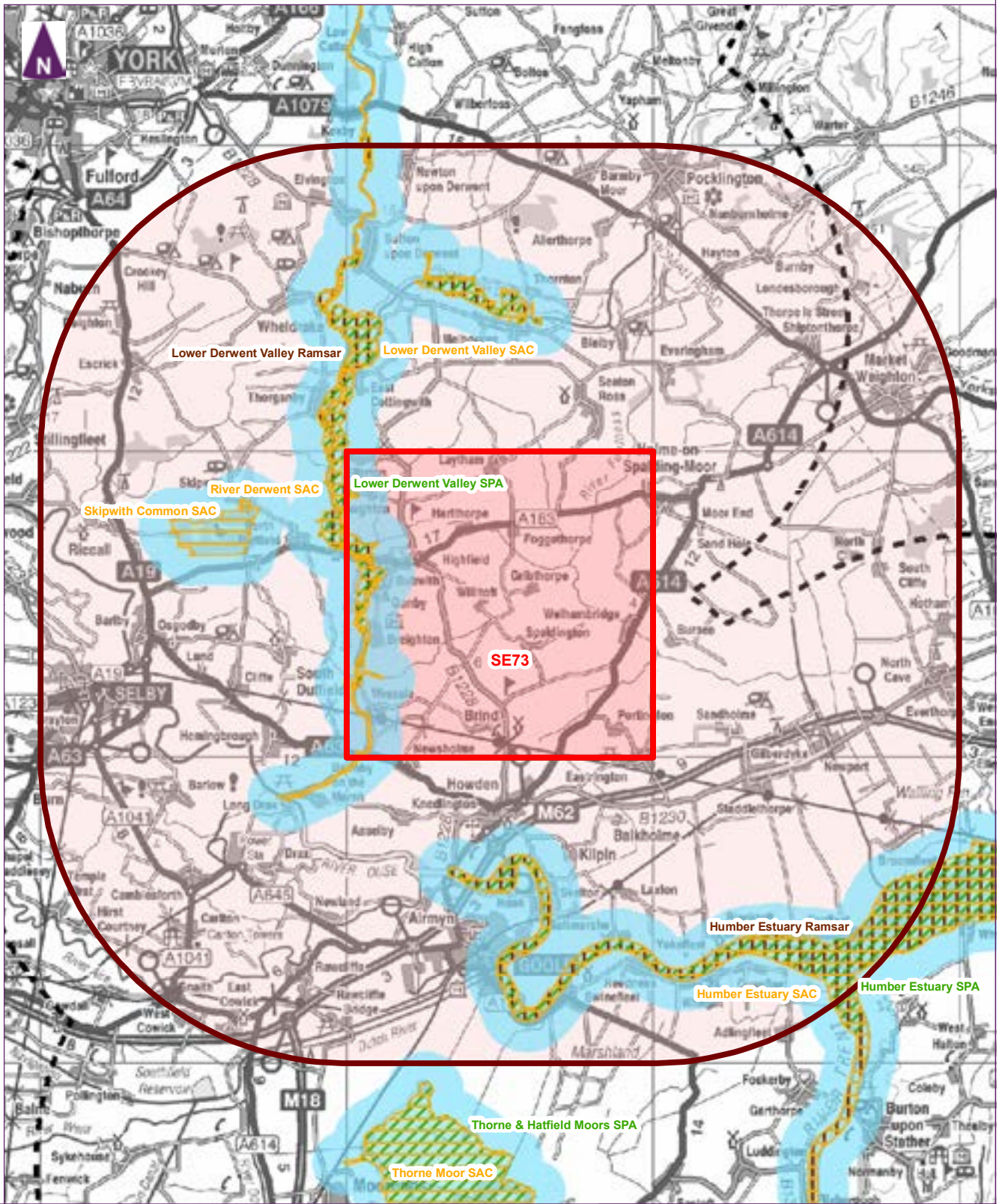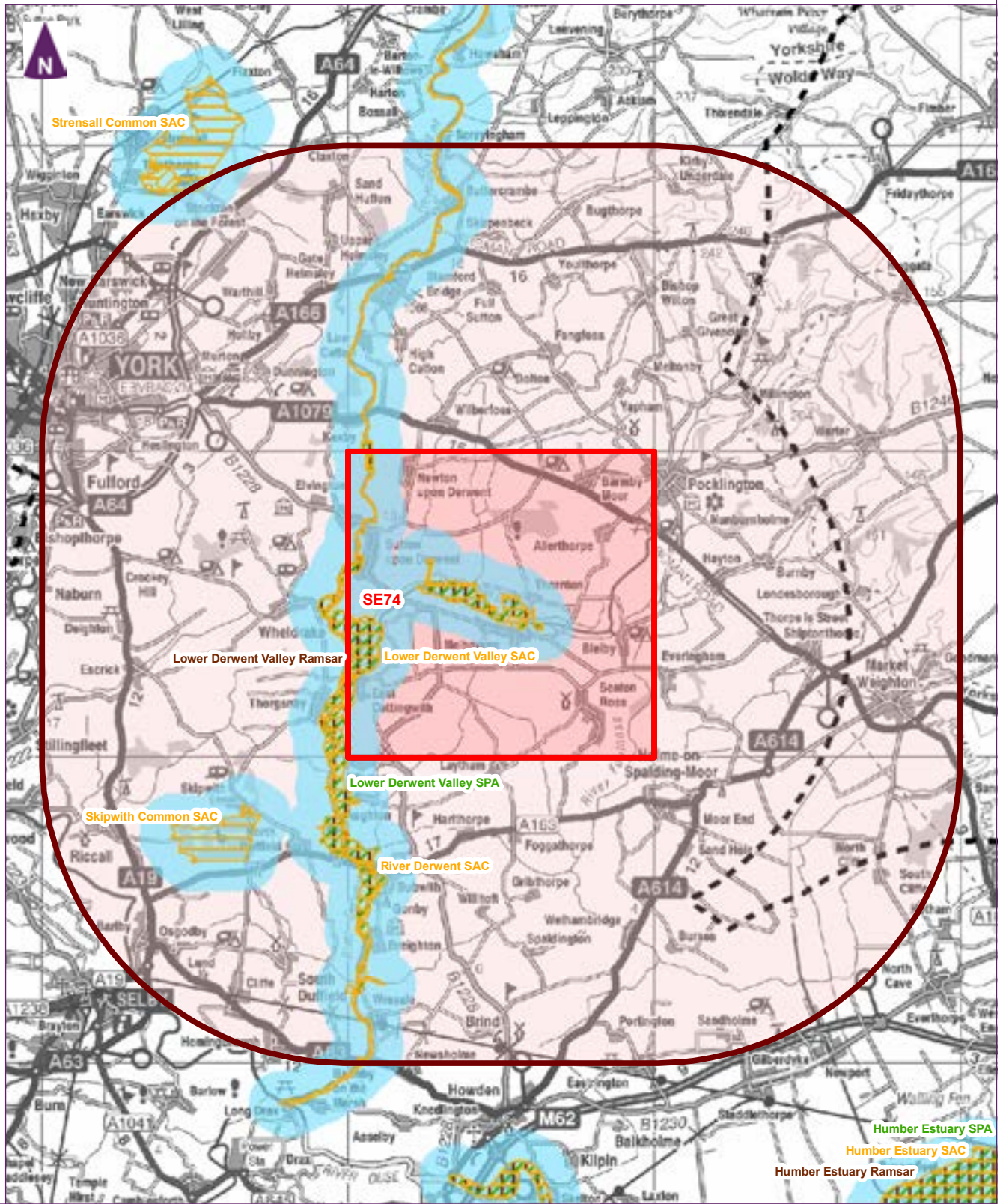|			
▭	Licence block boundary	▭	Special Area of Conservation (SAC)
▭	10km potential zones of influence	▨	Special Protection Area (SPA)
▭	1km buffer zone	▥	RAMSAR
▭	10km buffer zone		

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Figure 1
HRA of Licence Application Block SE74

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Scale at A4: 1:185,000

0   5   10 km

Key

Licence block boundary	
10km potential zones of influence	
1km buffer zone	
10km buffer zone	
Special Area of Conservation (SAC)	
Special Protection Area (SPA)	
RAMSAR	

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Figure 1
HRA of Licence Application Block SE75

0   5   10
km

Scale at A4: 1:185,000

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Map labels:
- Strensall Common SAC
- River Derwent SAC
- SE75
- Lower Derwent Valley Ramsar
- Lower Derwent Valley SAC
- Lower Derwent Valley SPA
- Skipwith Common SAC
- YORK
- MALTON
- NORTON-ON-DERWENT
- Pocklington
- Yorkshire Wolds Way

file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

Strensall Common SAC

River Derwent SAC

Lower Derwent Valley SPA

Lower Derwent Valley SAC

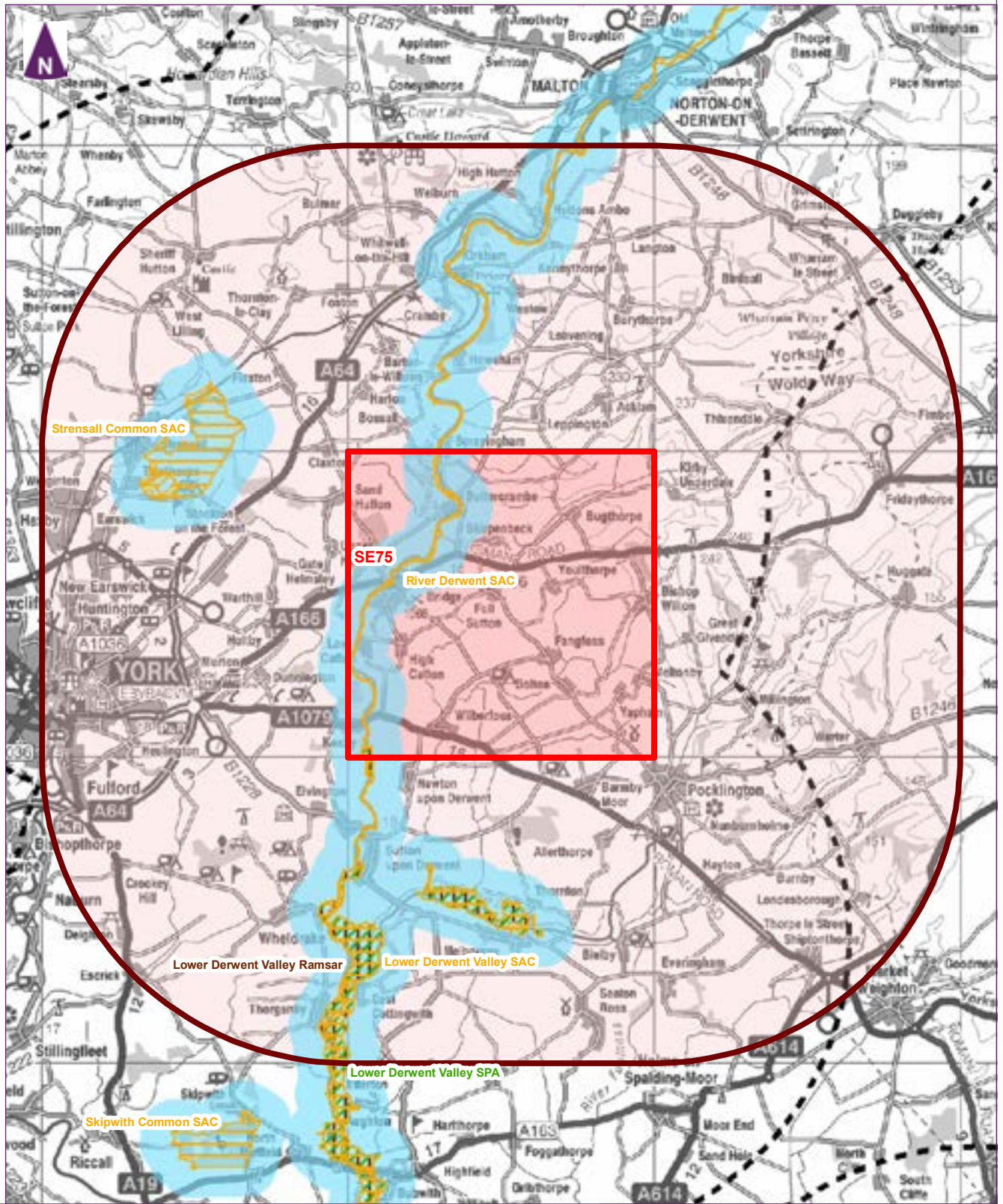Lower Derwent Valley Ramsar

SE76

0   5   10 km

Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
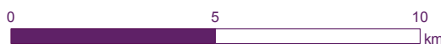Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SE76

November 2015   33917-Lea46c.mxd BROWJ

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

Labels on map:

North York Moors SPA   North York Moors SAC

Eller`s Wood and Sand Dale SAC

SE77e

River Derwent SAC

Strensall Common SAC

Scale at A4: 1:185,000

0   5   10 km

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Figure 1
HRA of Licence Application Block SE77e

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file: H:\Projects\33917_LEA\33917-Lea46b map package\v101\33917-Lea46c.mxd

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
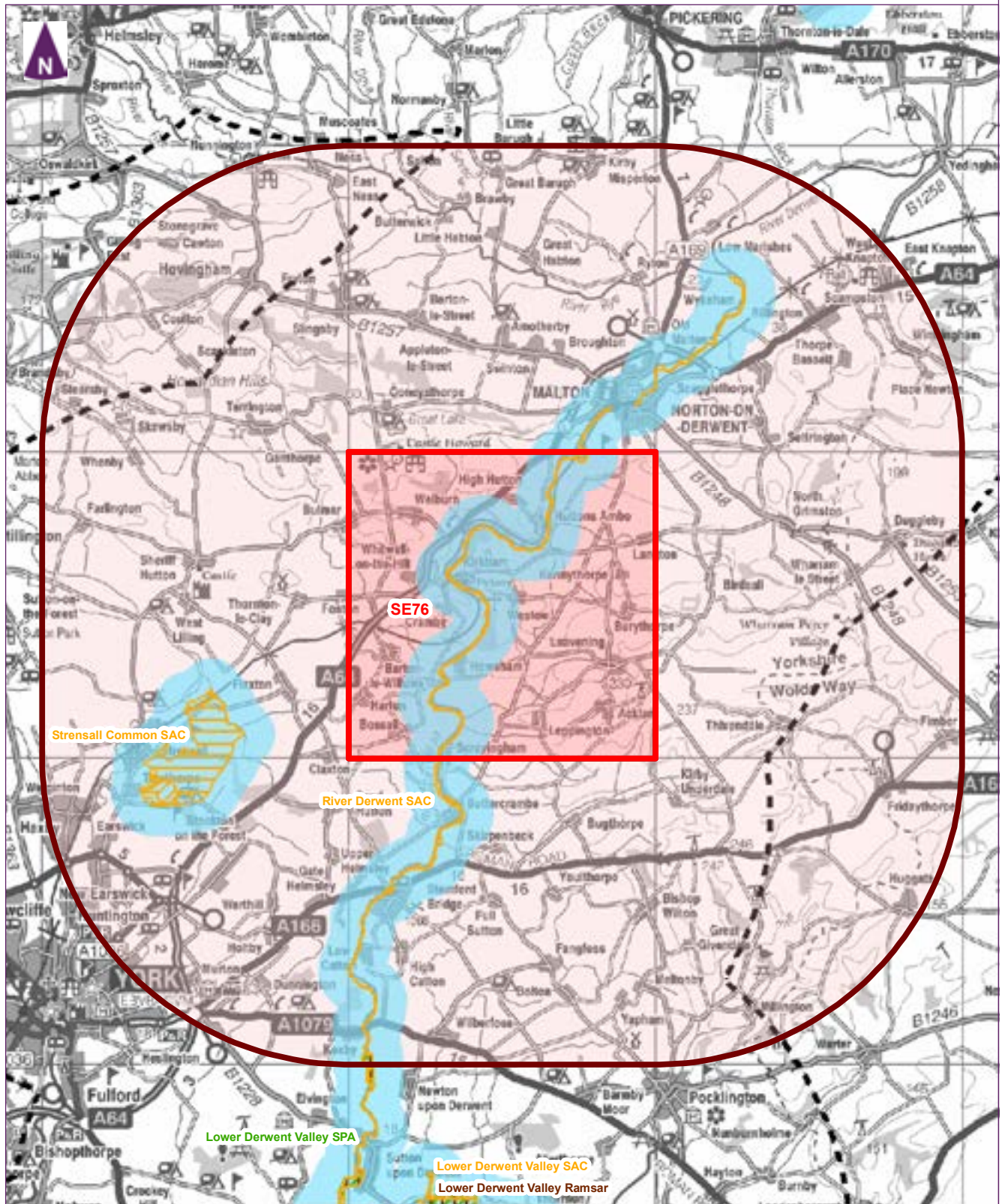- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

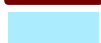Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SE78f

Scale at A4: 1:185,000

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
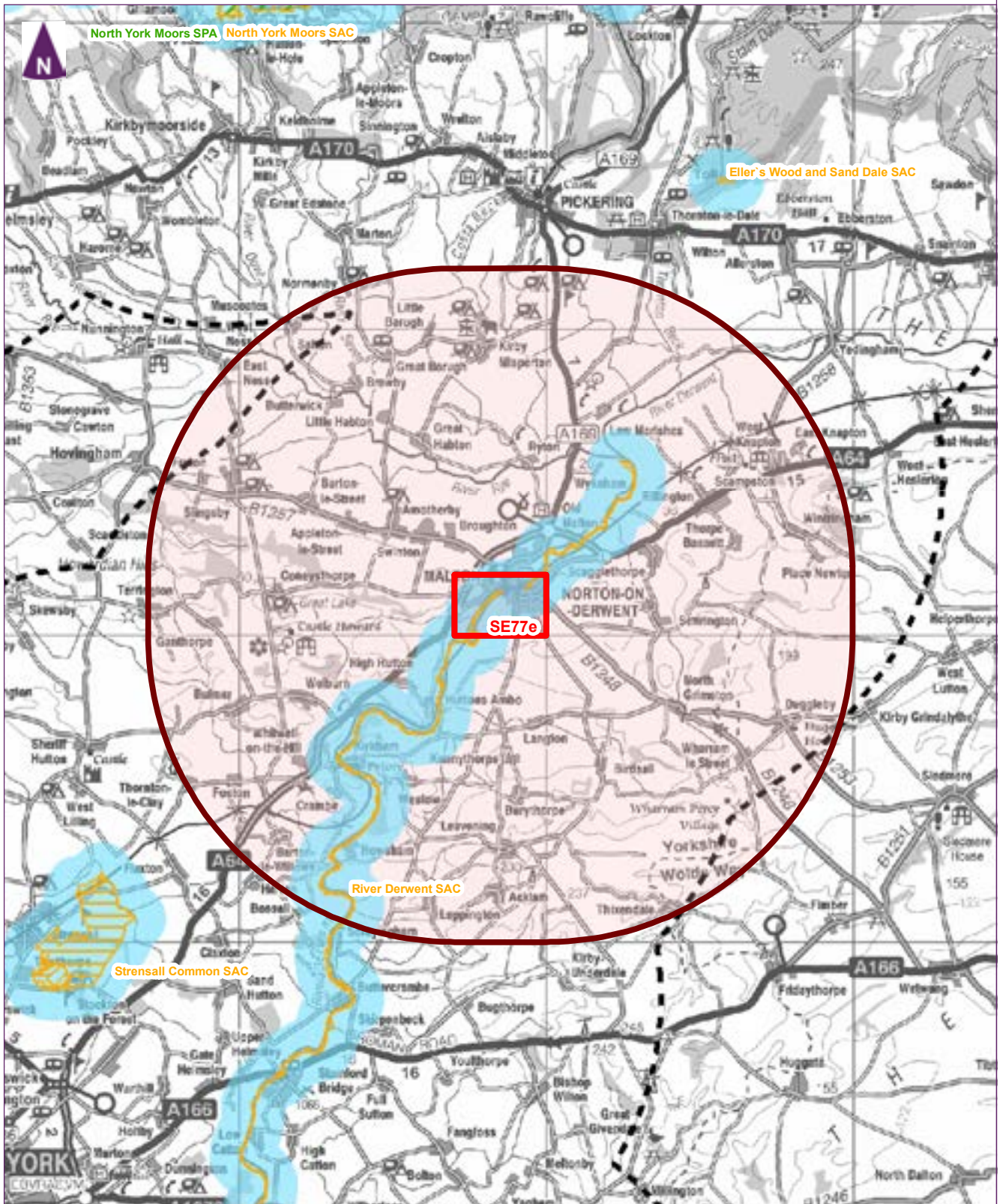
Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SE79

0   5   10 km

Scale at A4: 1:185,000

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Map labels: Arnecliff and Park Hole Woods SAC, North York Moors SAC, North York Moors SPA, Fen Bog SAC, SE79, Eller's Wood and Sand Dale SAC, River Derwent SAC

Key

🟥	Licence block boundary
🟥	10km potential zones of influence
🟦	1km buffer zone
▪▪▪	10km buffer zone
▭	Special Area of Conservation (SAC)
▨	Special Protection Area (SPA)
▥	RAMSAR

Scale at A4: 1:185,000

0   5   10 km

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Figure 1
HRA of Licence Application Block SE84

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Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Special Protection Area (SPA)

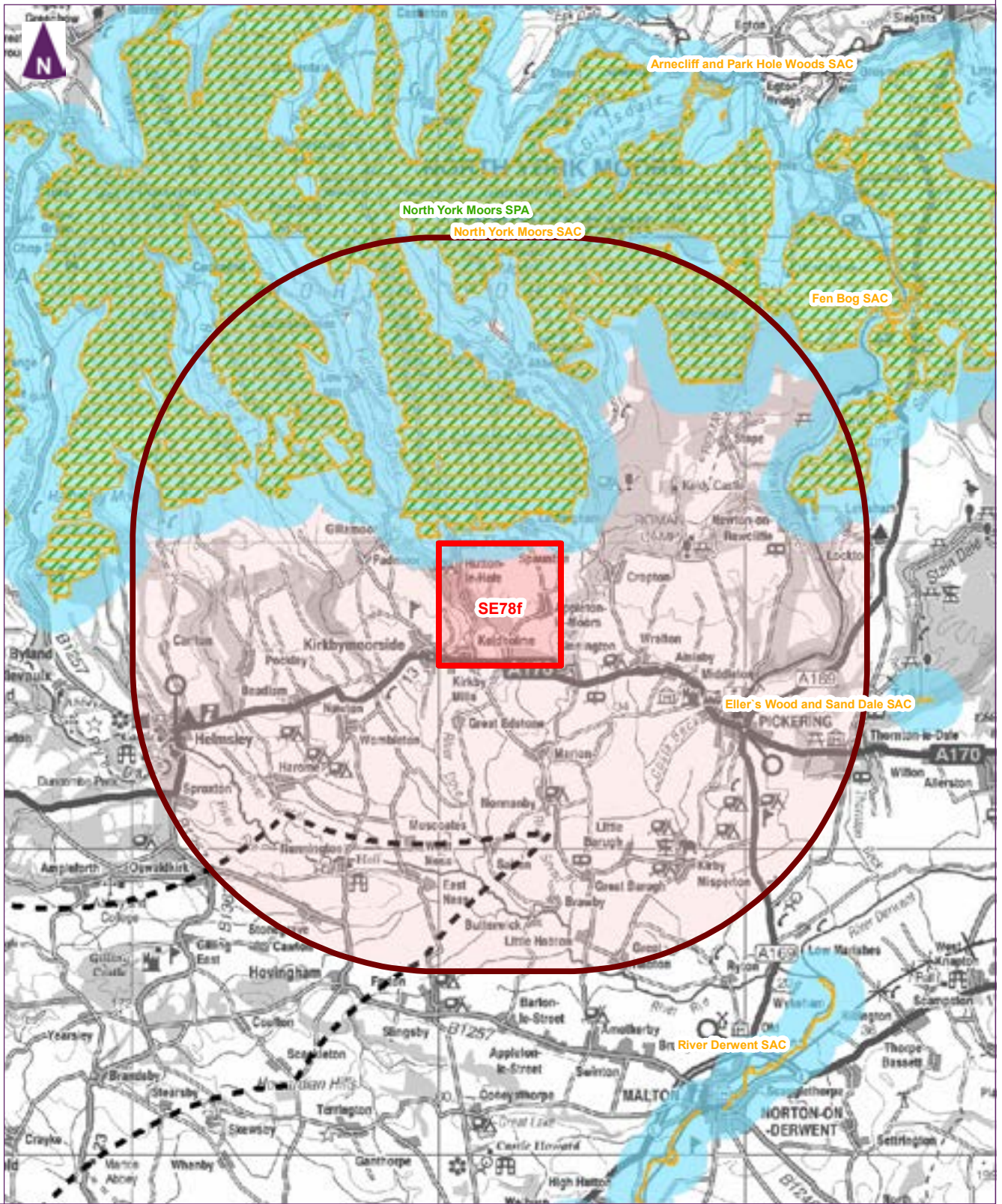RAMSAR
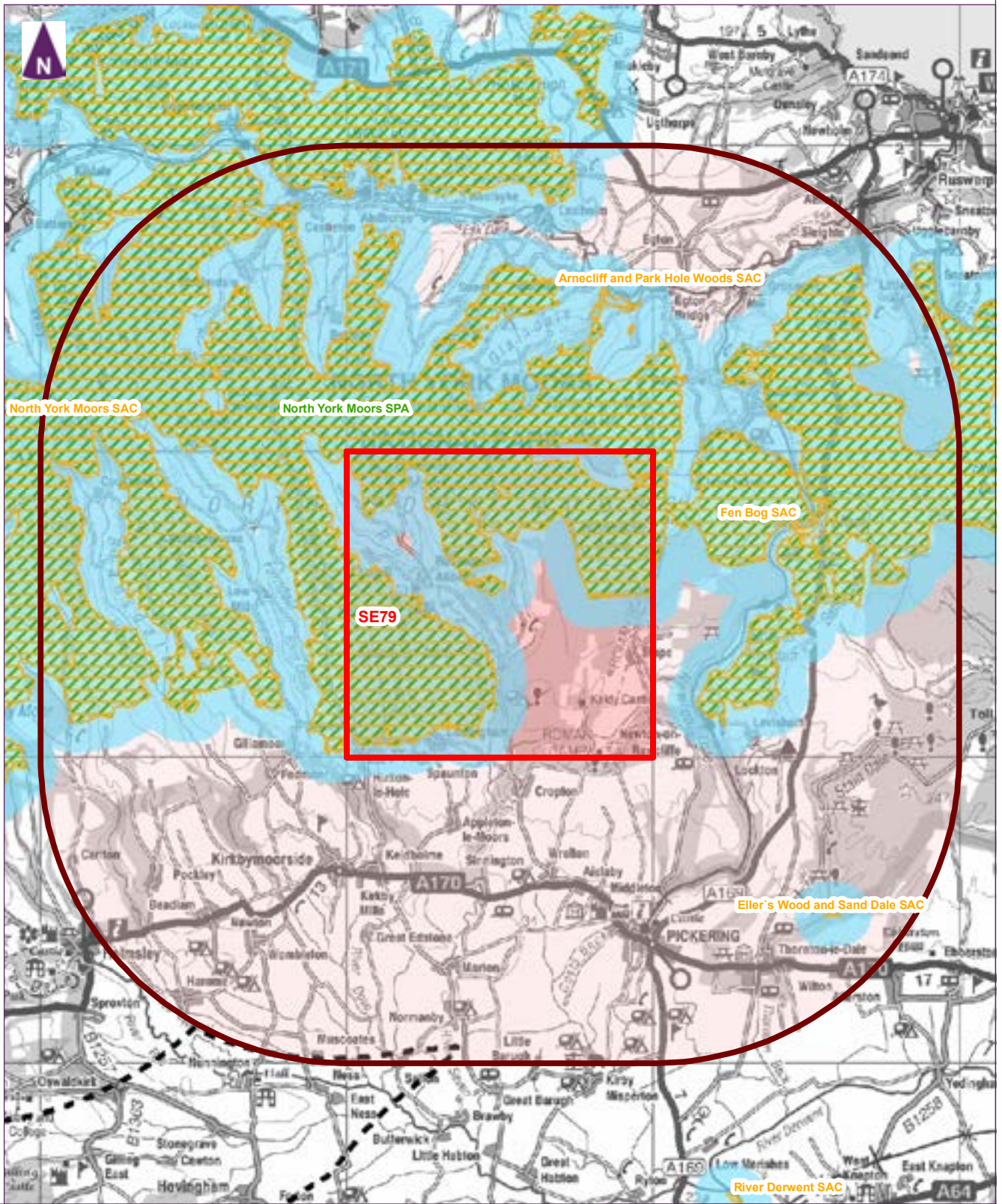
Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SE85

0   5   10
km

Scale at A4: 1:185,000

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Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Special Protection Area (SPA)

RAMSAR

0   5   10
km

Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
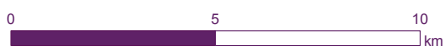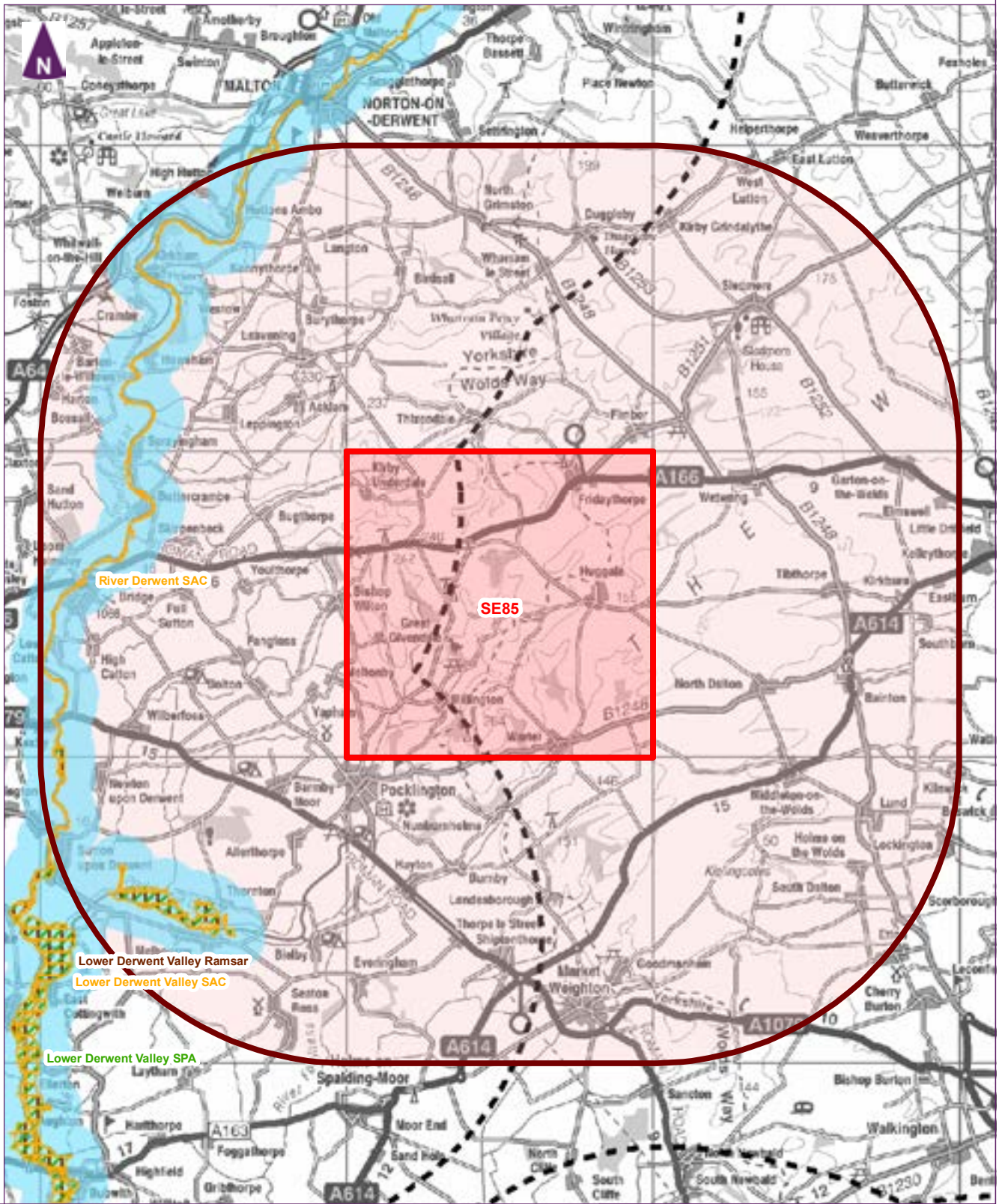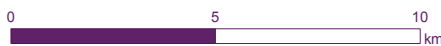Department of Energy and Climate Change

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**Figure 1
HRA of Licence Application Block SE86b**

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file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

Scale at A4: 1:185,000

0 — 5 — 10 km

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Figure 1
HRA of Licence Application Block SE87b

November 2015   33917-Lea46c.mxd BROWJ

Key

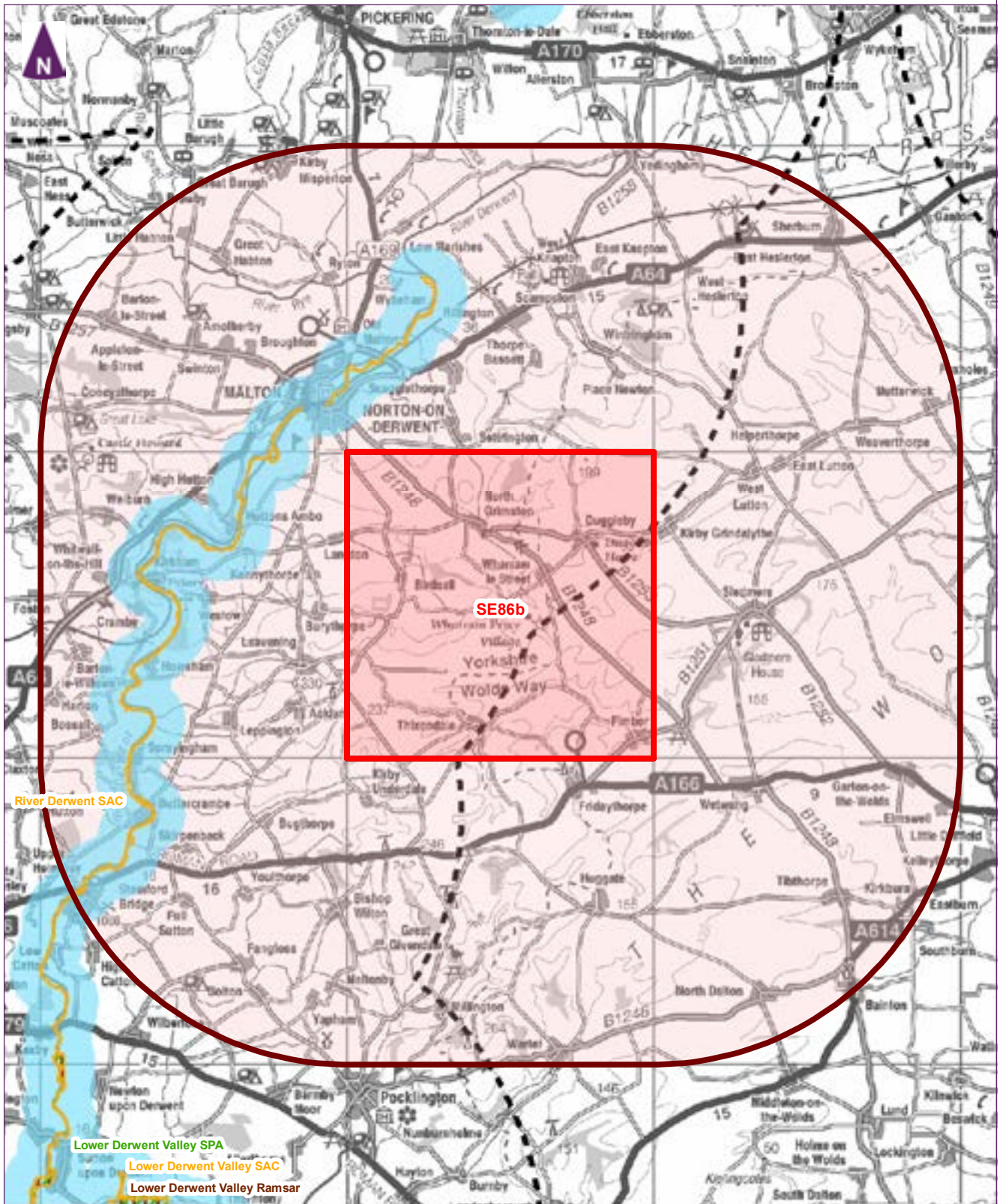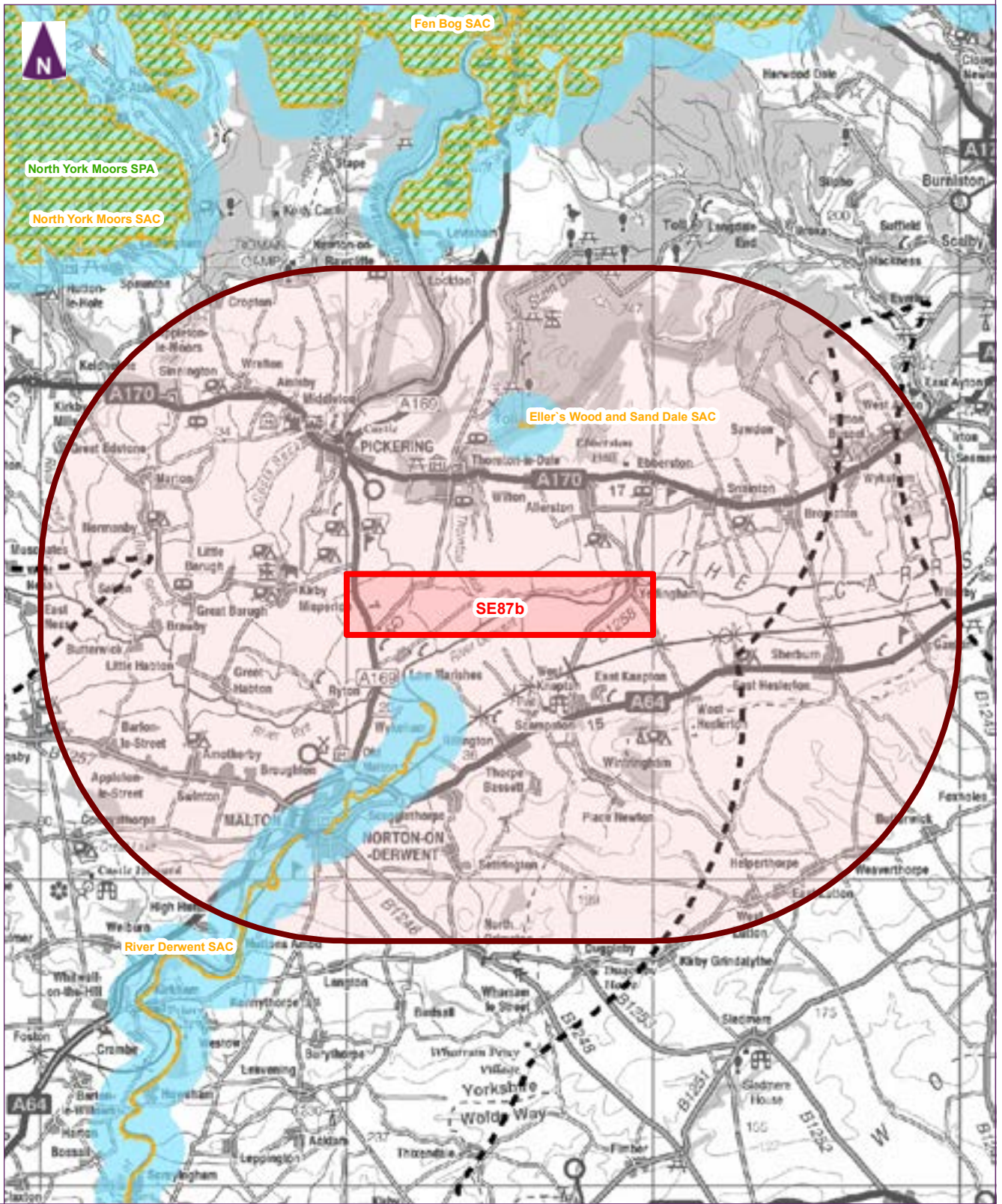|			
▭ (red)	Licence block boundary	▭ (orange)	Special Area of Conservation (SAC)
▭ (dark red)	10km potential zones of influence	▨ (green)	Special Protection Area (SPA)
▭ (blue)	1km buffer zone		
▭ (dashed)	10km buffer zone		

0   5   10 km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SE87e

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

North York Moors SAC

North York Moors SPA

Fen Bog SAC

Beast Cliff – Whitby (Robin Hood`s Bay) SAC

Eller`s Wood and Sand Dale SAC
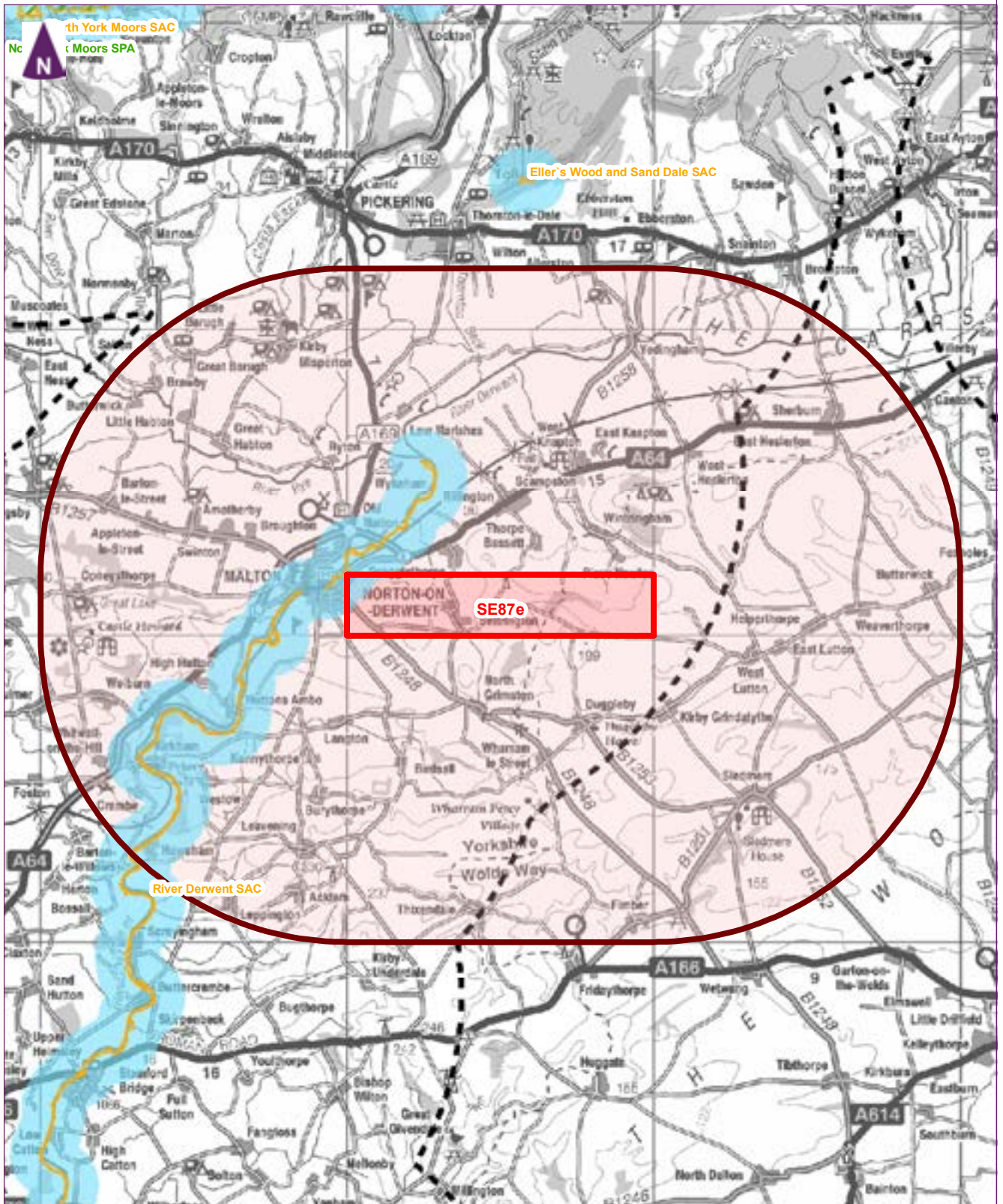
SE88c

River Derwent SAC
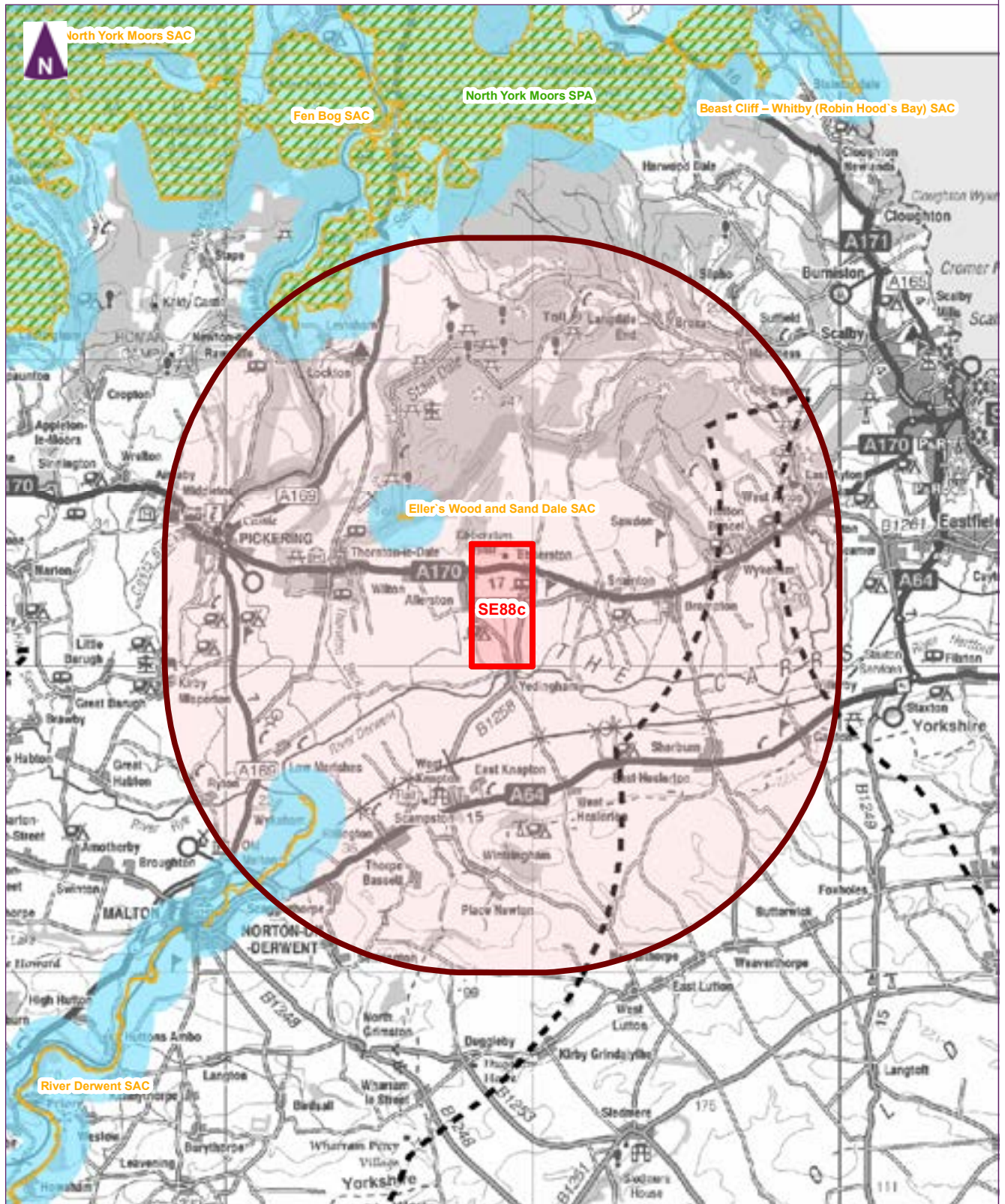
0   5   10 km

Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SE88c

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Key

Symbol	Description
▨ (red)	Licence block boundary
▨ (dark red outline)	10km potential zones of influence
▨ (blue)	1km buffer zone
┅ (dashed)	10km buffer zone
▭ (orange)	Special Area of Conservation (SAC)

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Figure 1
HRA of Licence Application Block SE95

0   5   10
km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SE96a

Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Proposed SPA (pSPA)
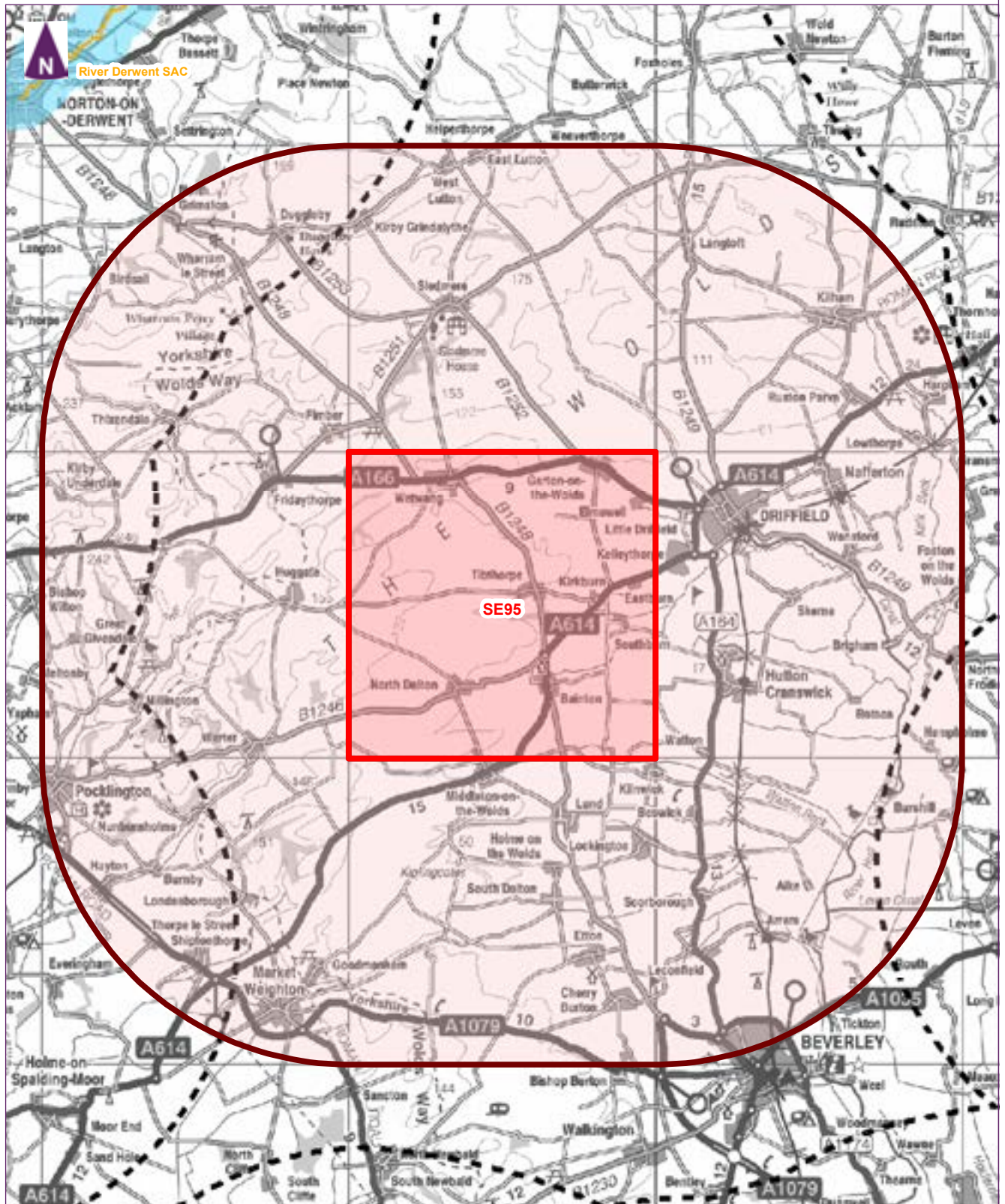
Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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amec
foster
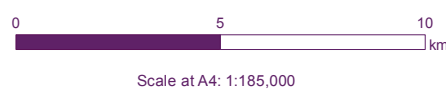wheeler

Scale at A4: 1:185,000

0   5   10
km

November 2015   33917-Lea46c.mxd BROWJ

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	Proposed SPA (pSPA)
10km buffer zone	

Habitat Regulations Assessment
(HRA) of 14th Round Onshore
Oil and Gas Licence
Applications
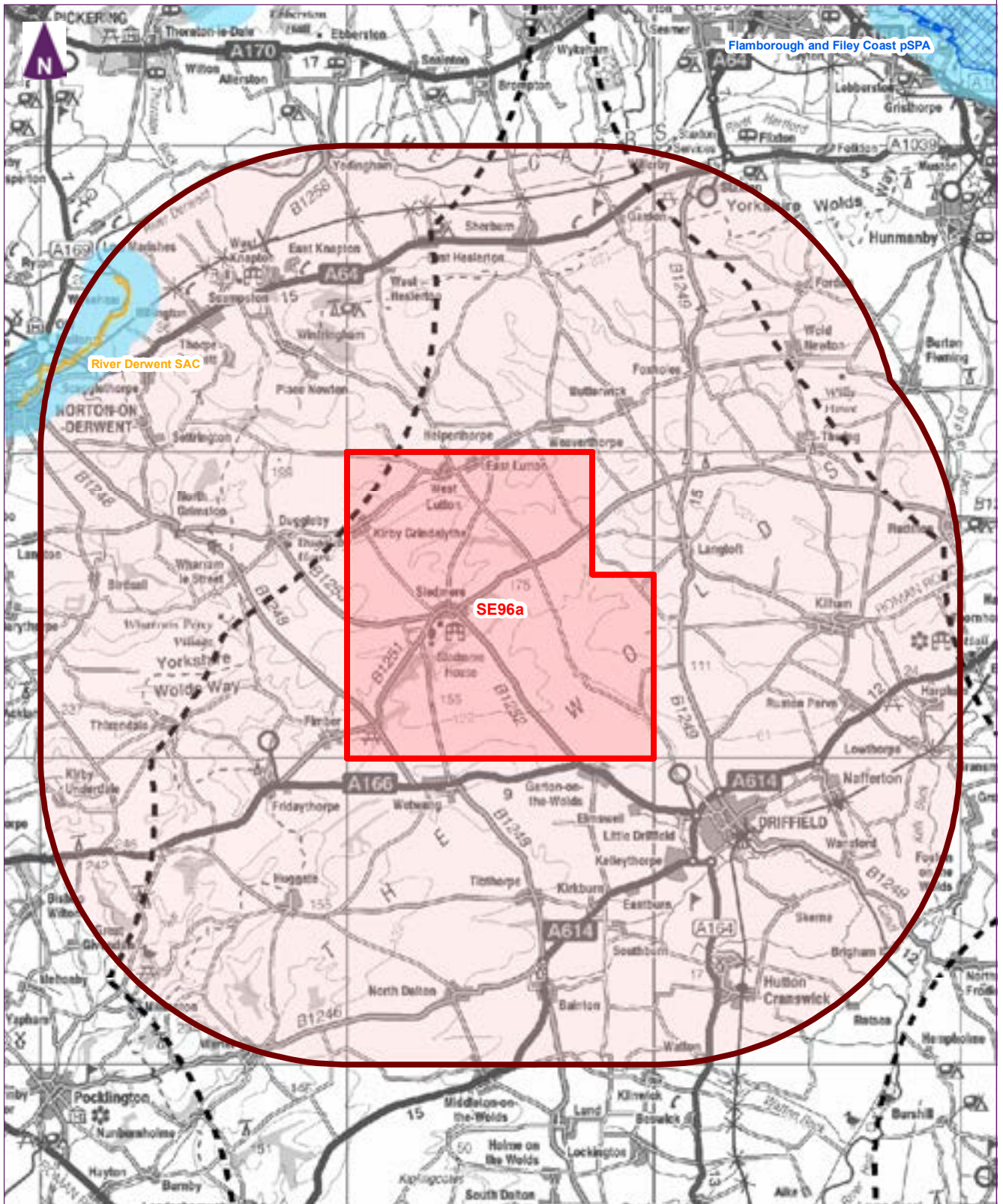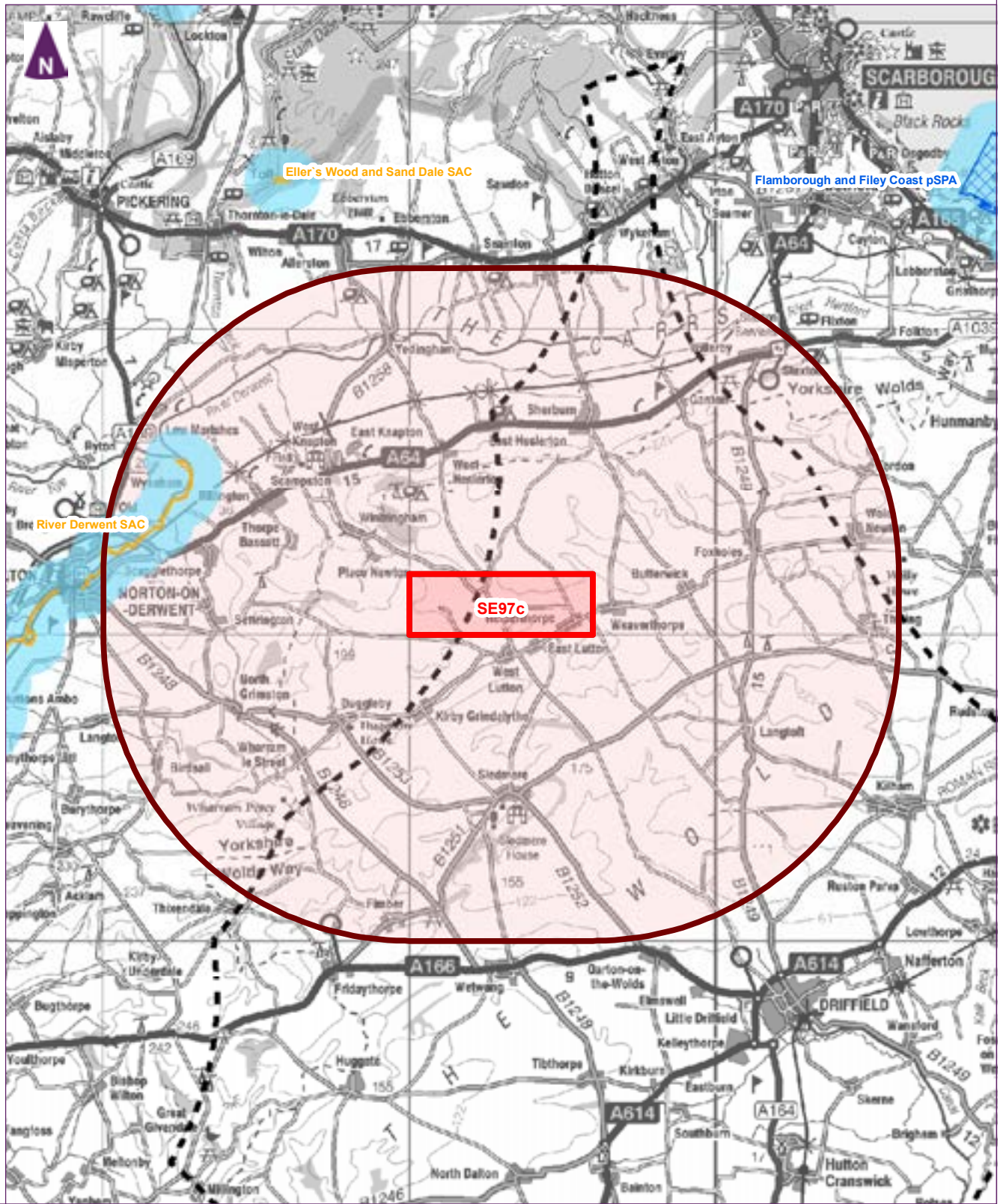Department of Energy and
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Figure 1
HRA of Licence Application Block
SE97a

0   5   10
km

Scale at A4: 1:185,000

file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Labels on map: Fen Bog SAC, North York Moors SAC, North York Moors SPA, Harwood Dale, Cloughton Newlands, Cloughton, Cloughton Wyke, Burniston, Scalby, Scalby Ness Rocks, Cromer Point, SCARBOROUGH, Eller's Wood and Sand Dale SAC, PICKERING, Flamborough and Filey Coast pSPA, East Ayton, West Ayton, SE97a, Yorkshire Wolds, Hunmanby, River Derwent SAC, NORTON-DERWENT, East Knapton, West Knapton, East Heslerton, West Heslerton, Wintringham, Place Newton, Helperthorpe, Weaverthorpe, East Lutton, West Lutton, Foxholes, Butterwick, Fordon, Wold Newton, Kirby Grindalythe, Langtoft, Sledmere, Duggleby, Wharram le Street, Wharram Percy Village, Yorkshire Wolds Way, Kilham, Rushton Parva, Lowthorpe

Key

▭ (red outline)	Licence block boundary	▭ (yellow outline)	Special Area of Conservation (SAC)
▭ (dark red outline)	10km potential zones of influence	▧ (blue hatch)	Proposed SPA (pSPA)
▇ (light blue)	1km buffer zone		
▭ (black dashed)	10km buffer zone		

Scale at A4: 1:185,000

0   5   10 km

Habitat Regulations Assessment
(HRA) of 14th Round Onshore
Oil and Gas Licence
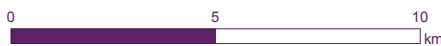Applications
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**Figure 1
HRA of Licence Application Block
SE97c**

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file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Key

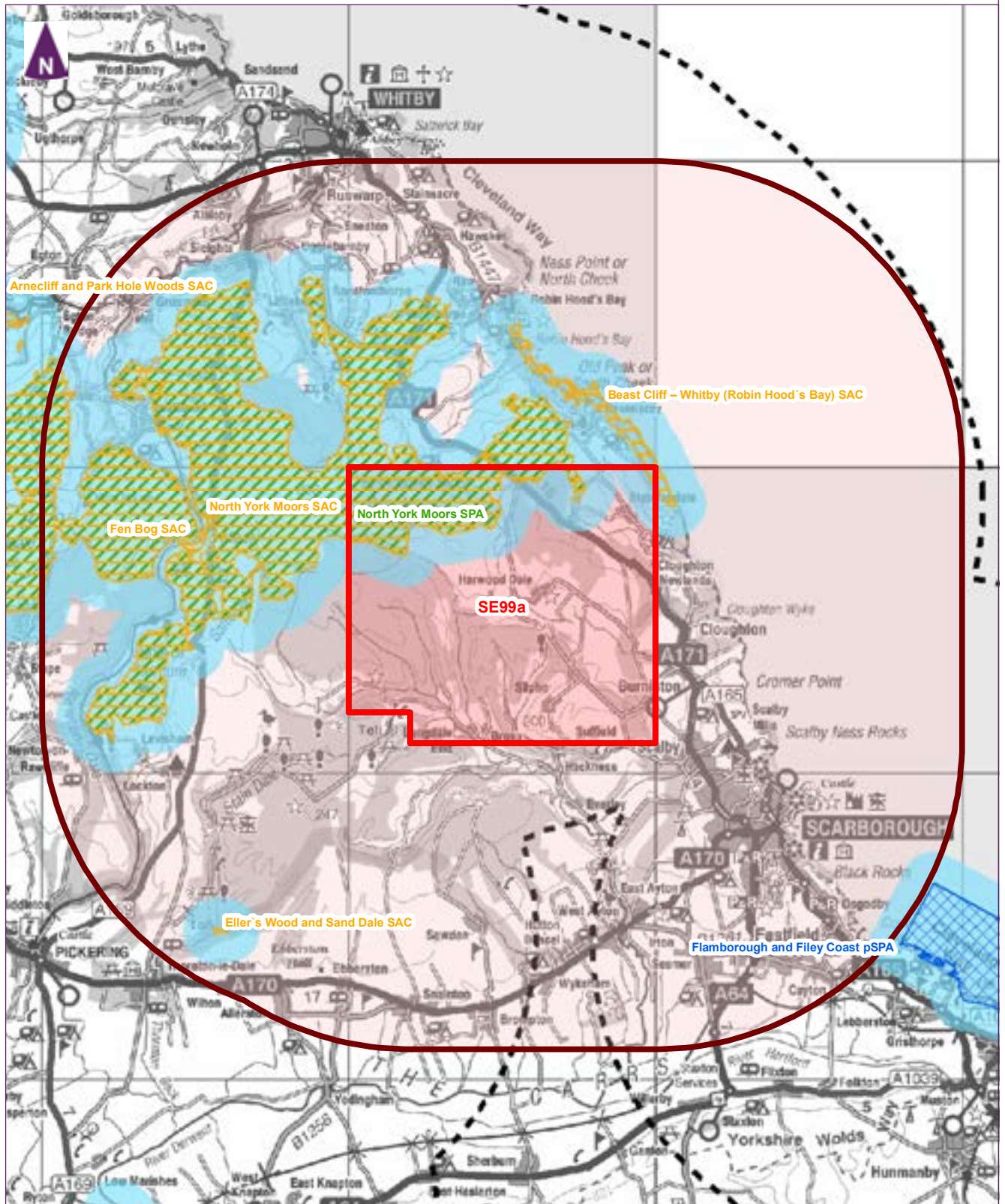|			
Licence block boundary		Special Area of Conservation (SAC)	
10km potential zones of influence		Special Protection Area (SPA)	
1km buffer zone		Proposed SPA (pSPA)	
10km buffer zone			

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
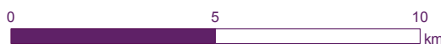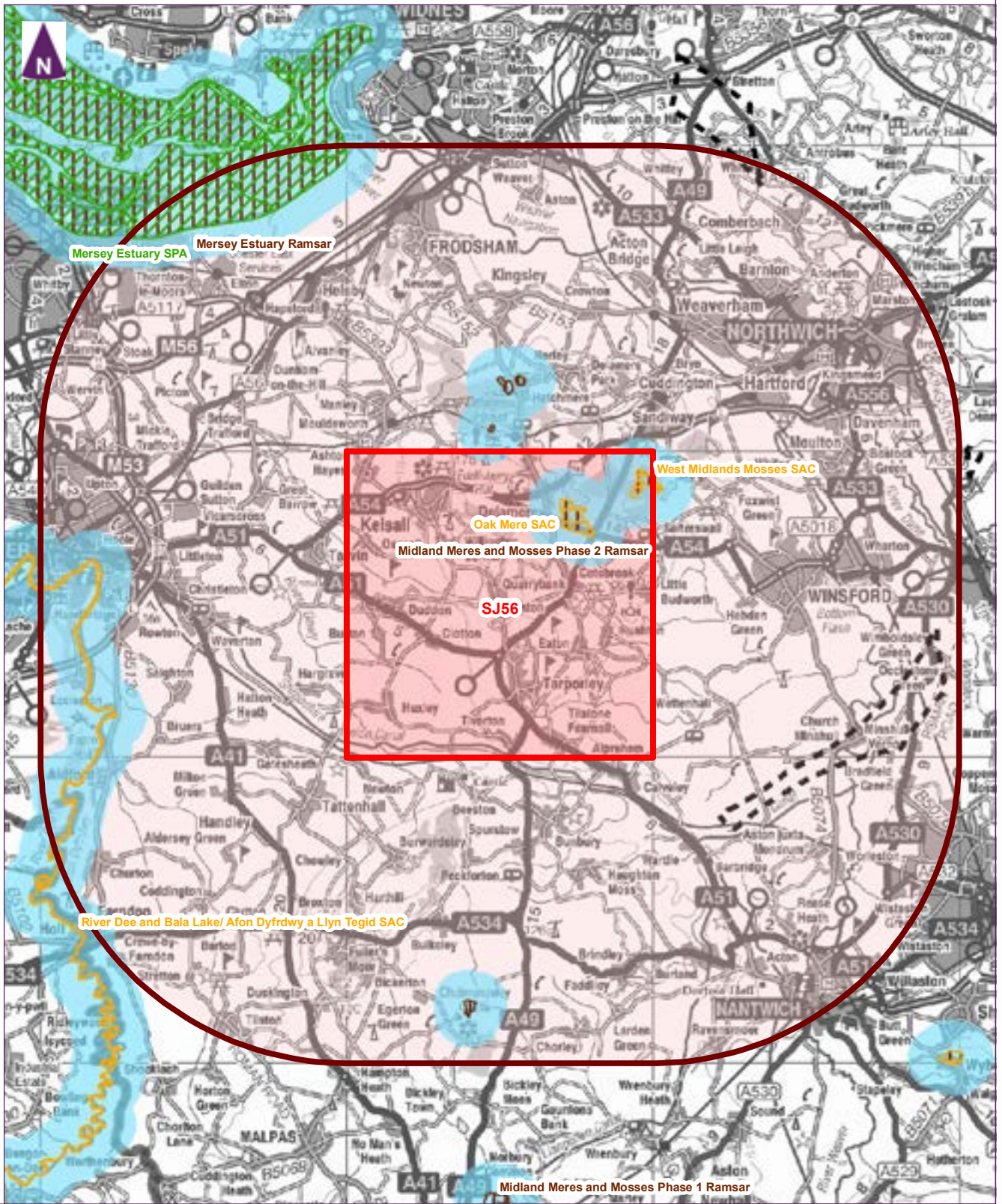Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SE98c

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Map labels:
Beast Cliff – Whitby (Robin Hood's Bay) SAC
North York Moors SAC
North York Moors SPA
Fen Bog SAC
Eller's Wood and Sand Dale SAC
Flamborough and Filey Coast pSPA
River Derwent SAC
SE98c
SCARBOROUGH
PICKERING
Yorkshire Wolds

Scale at A4: 1:185,000
0   5   10 km

file: H:\Projects\33917_LEA\33917 LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Key

▦ (red)	Licence block boundary	▭ (orange)	Special Area of Conservation (SAC)
▭ (pink)	10km potential zones of influence	▨ (green hatch)	Special Protection Area (SPA)
▦ (blue)	1km buffer zone	▨ (blue cross)	Proposed SPA (pSPA)
▭ (dashed)	10km buffer zone		

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Figure 1
HRA of Licence Application Block SE99a

Scale at A4: 1:185,000

0   5   10 km

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Key

(red box, pink fill)	Licence block boundary
(dark red box, pink fill)	10km potential zones of influence
(light blue fill)	1km buffer zone
(black dashed line)	10km buffer zone
(orange box)	Special Area of Conservation (SAC)
(green hatched)	Special Protection Area (SPA)
(brown vertical lines)	RAMSAR

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Figure 1
HRA of Licence Application Block SJ56

Scale at A4: 1:185,000

0   5   10 km

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Map labels:
Mersey Estuary SPA
Mersey Estuary Ramsar
West Midlands Mosses SAC
Oak Mere SAC
Midland Meres and Mosses Phase 2 Ramsar
SJ56
River Dee and Bala Lake/ Afon Dyfrdwy a Llyn Tegid SAC
Midland Meres and Mosses Phase 1 Ramsar

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

Scale: 0 — 5 — 10 km

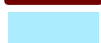Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
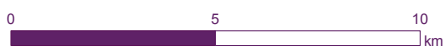**Department of Energy and Climate Change**

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Figure 1
HRA of Licence Application Block SJ57

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Labels on map:
- Manchester Mosses SAC
- Rixton Clay Pits SAC
- Mersey Estuary SPA
- Mersey Estuary Ramsar
- SJ57
- Midland Meres and Mosses Phase 1 Ramsar
- West Midlands Mosses SAC
- Oak Mere SAC
- Midland Meres and Mosses Phase 2 Ramsar
- River Dee and Bala Lake/ Afon Dyfrdwy a Llyn Tegid SAC

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
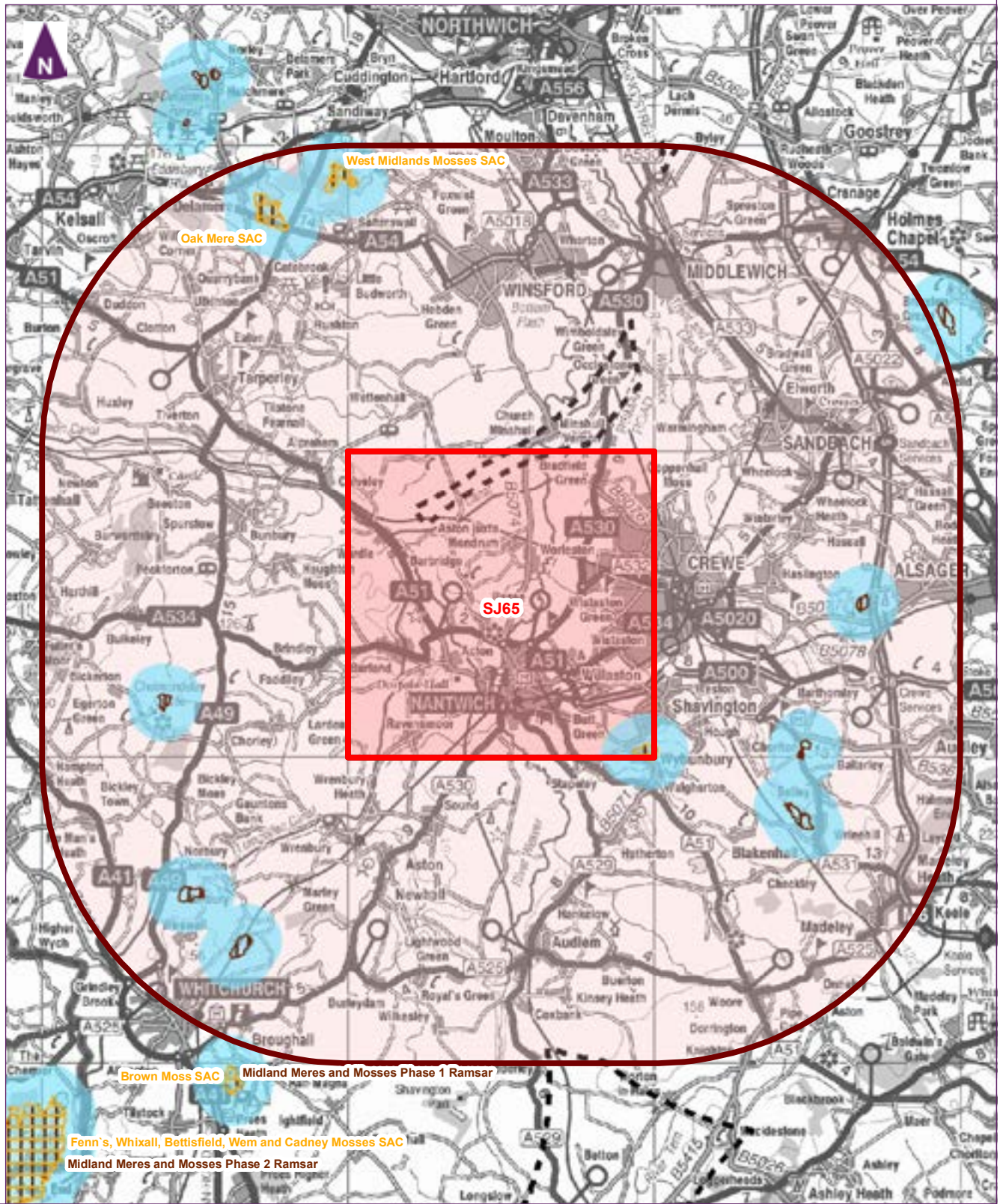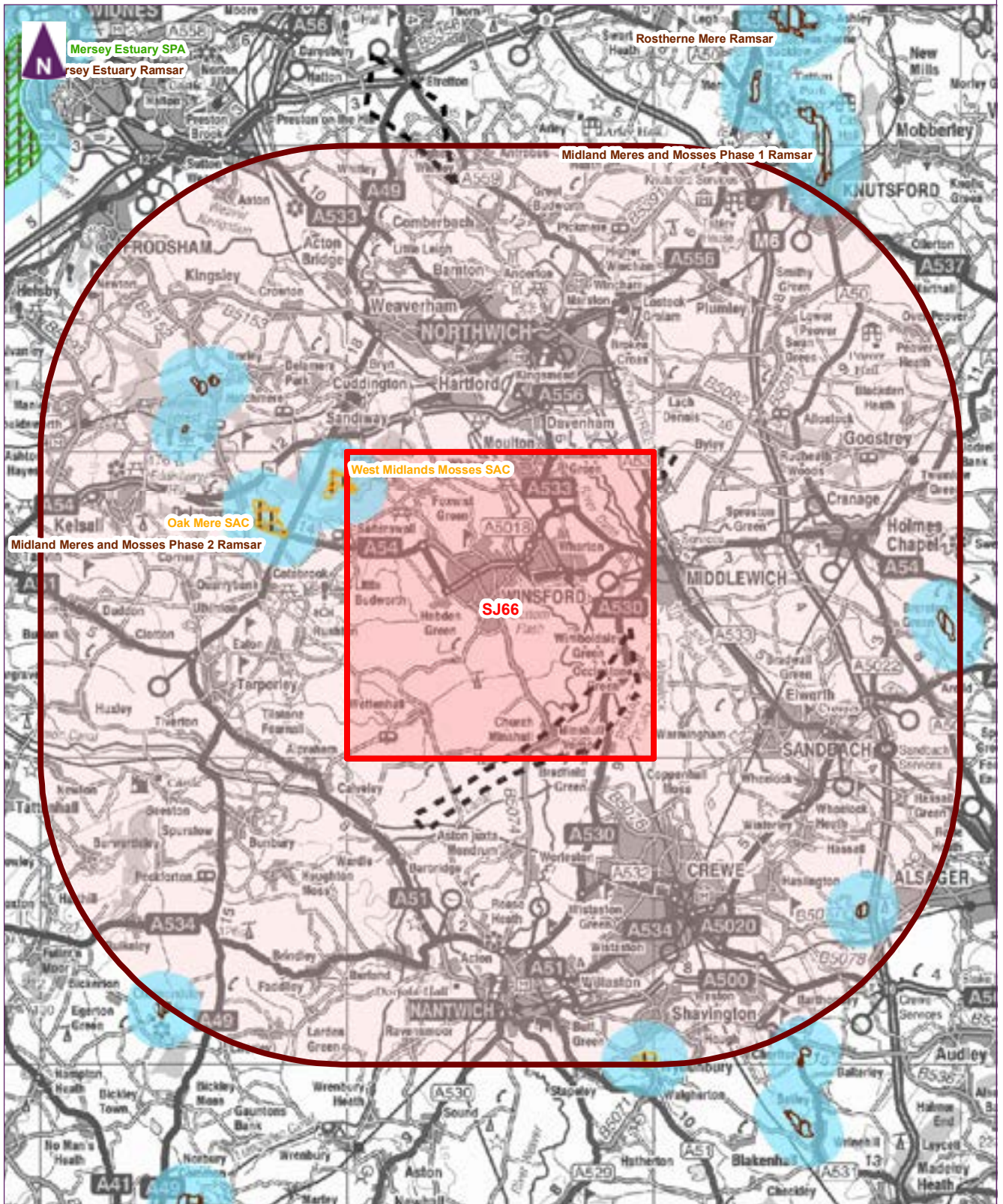- 10km buffer zone
- Special Area of Conservation (SAC)
- RAMSAR

West Midlands Mosses SAC
Brown Moss SAC
Midland Meres and Mosses Phase 1 Ramsar
Fenn`s, Whixall, Bettisfield, Wem and Cadney Mosses SAC
Midland Meres and Mosses Phase 2 Ramsar

SJ64

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SJ64

0   5   10 km
Scale at A4: 1:185,000

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Key

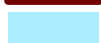|	
Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	RAMSAR
1km buffer zone	
10km buffer zone	

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SJ65

Scale at A4: 1:185,000

0   5   10 km

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

Map labels: Mersey Estuary SPA, Mersey Estuary Ramsar, Rostherne Mere Ramsar, Midland Meres and Mosses Phase 1 Ramsar, West Midlands Mosses SAC, Oak Mere SAC, Midland Meres and Mosses Phase 2 Ramsar, SJ66
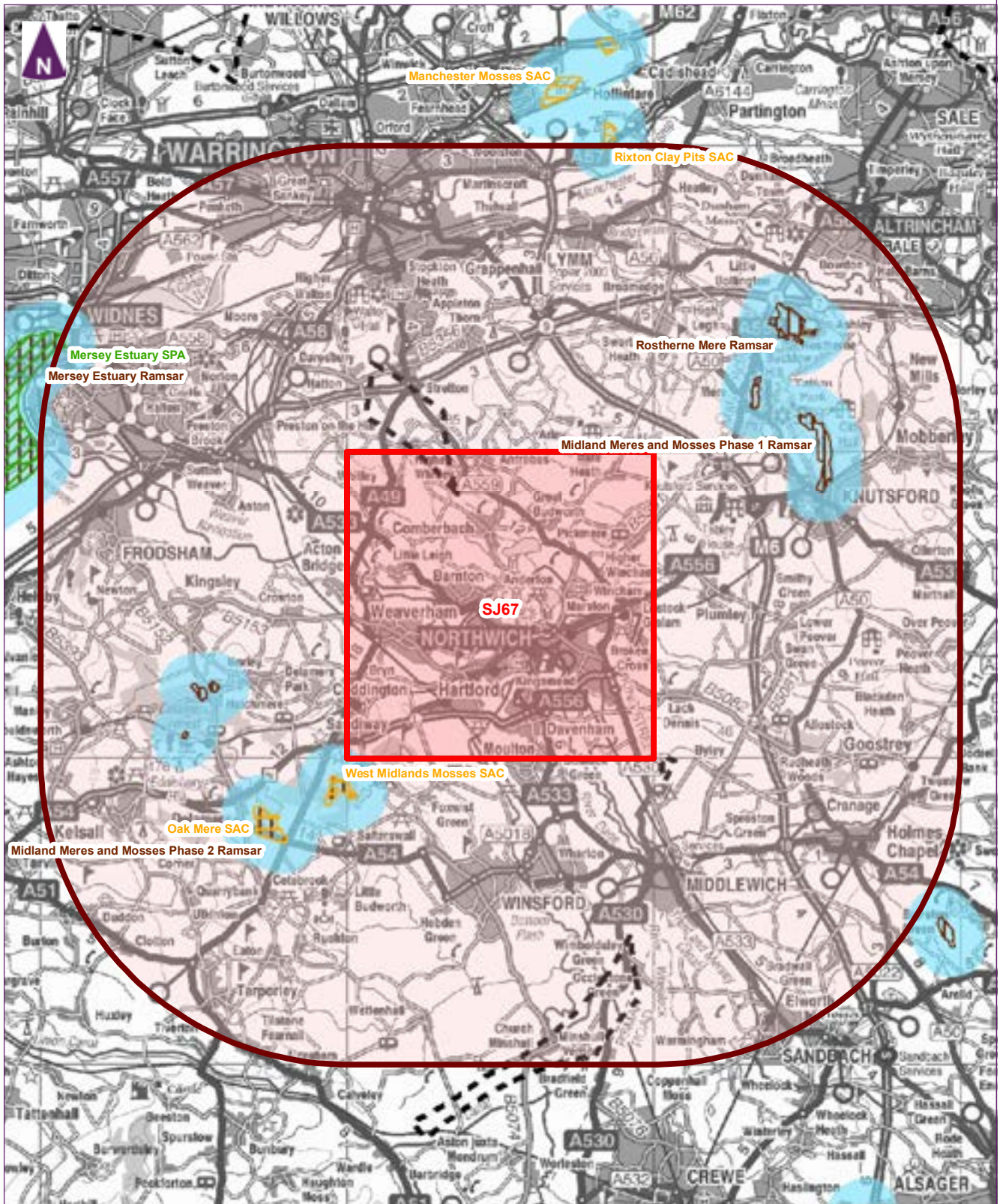
Scale: 0 — 5 — 10 km
Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SJ66

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Figure 1
HRA of Licence Application Block SJ67

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

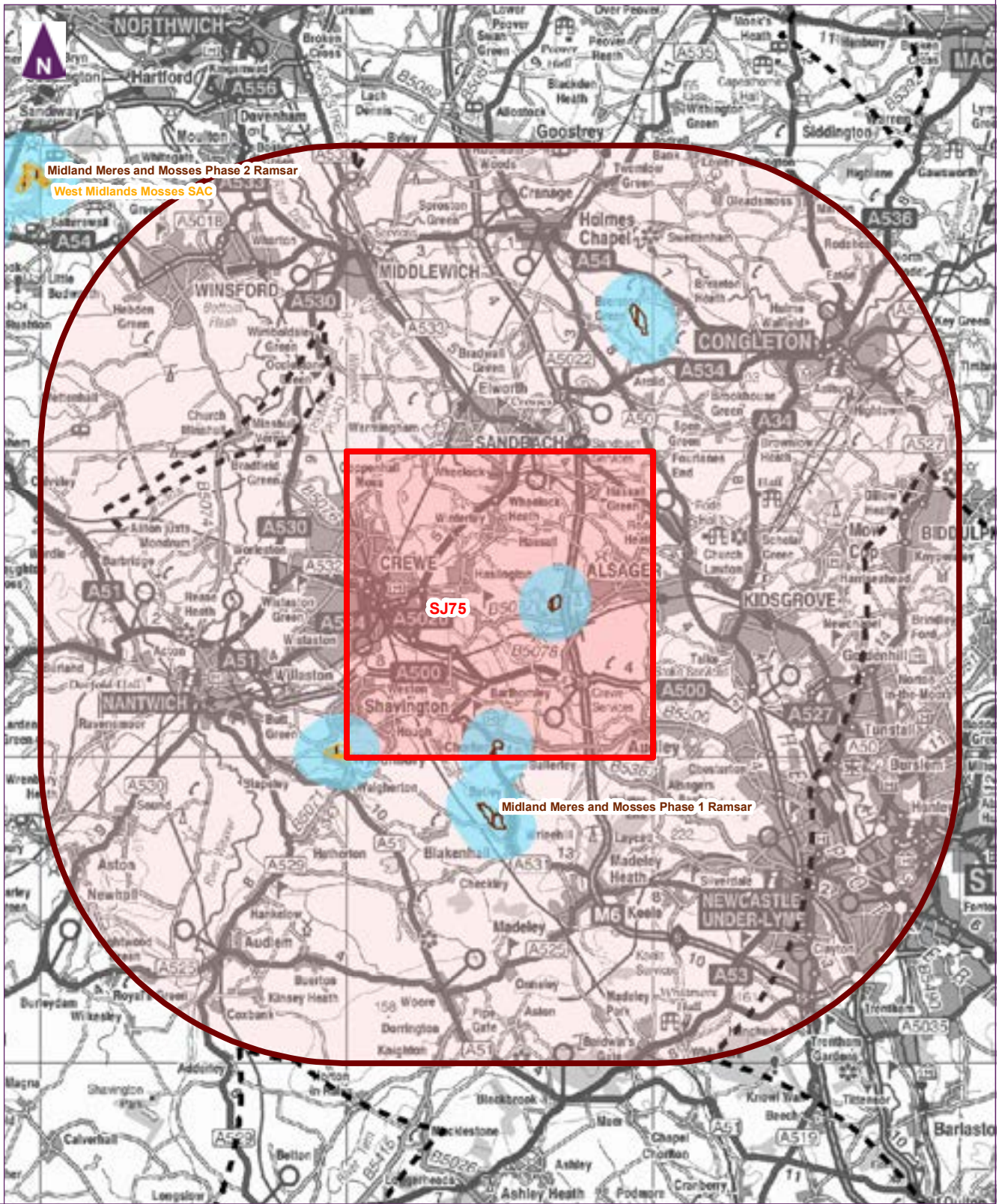Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Scale at A4: 1:185,000

0   5   10
km

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Key

Symbol	Description
▭	Licence block boundary
▭	10km potential zones of influence
▭	1km buffer zone
▭ (dashed)	10km buffer zone
▭	Special Area of Conservation (SAC)
▭	RAMSAR

Midland Meres and Mosses Phase 2 Ramsar
West Midlands Mosses SAC

SJ75

Midland Meres and Mosses Phase 1 Ramsar
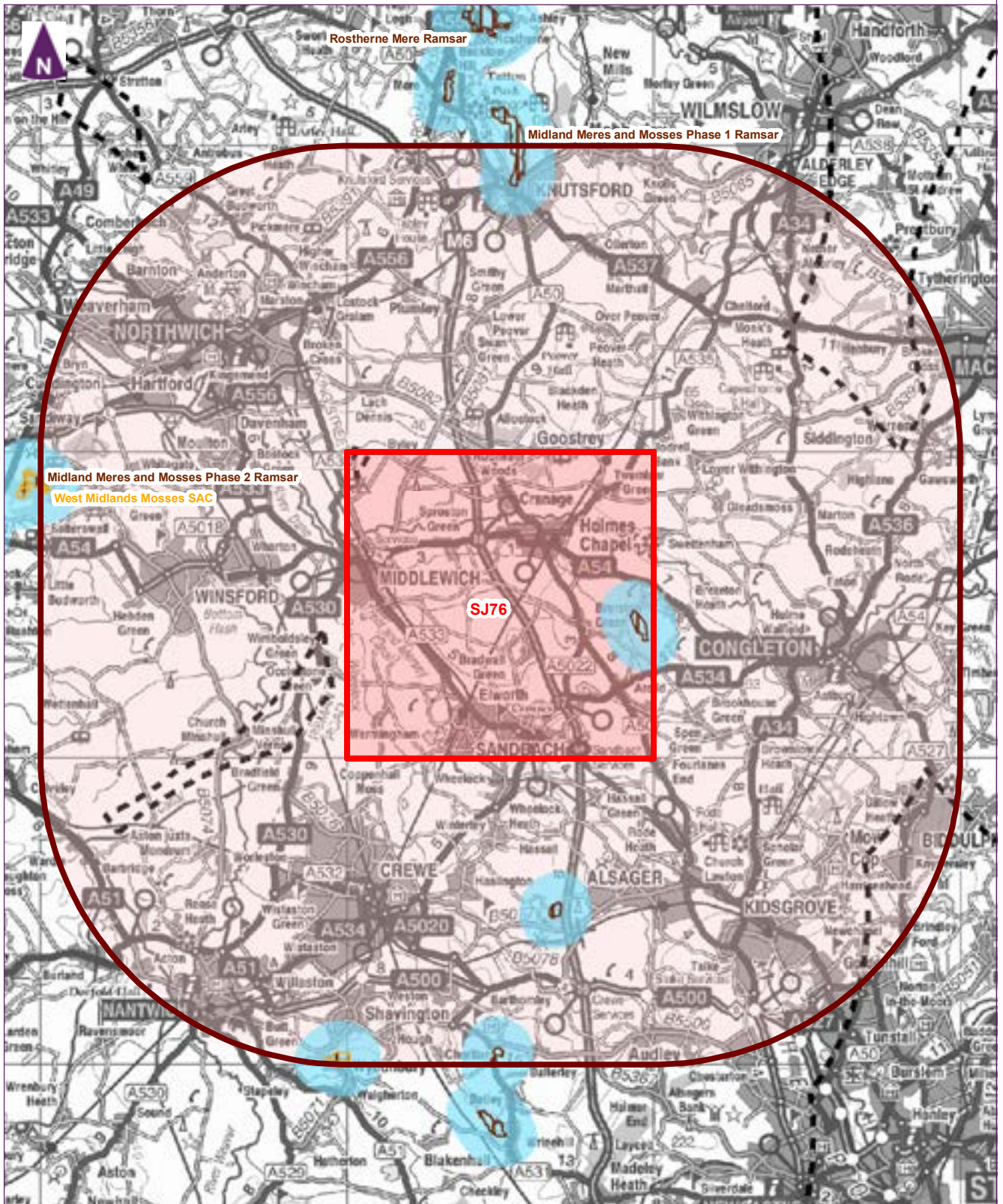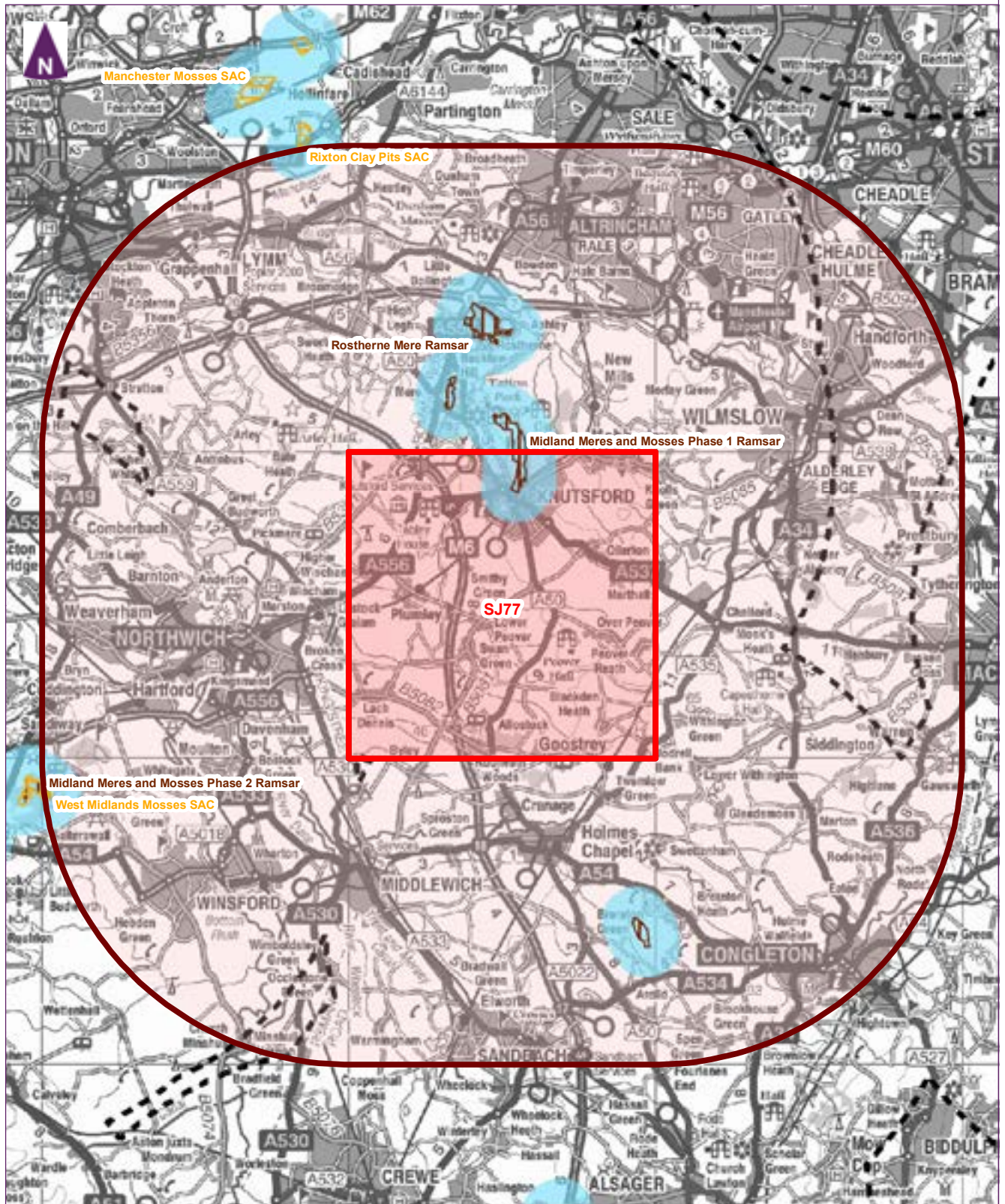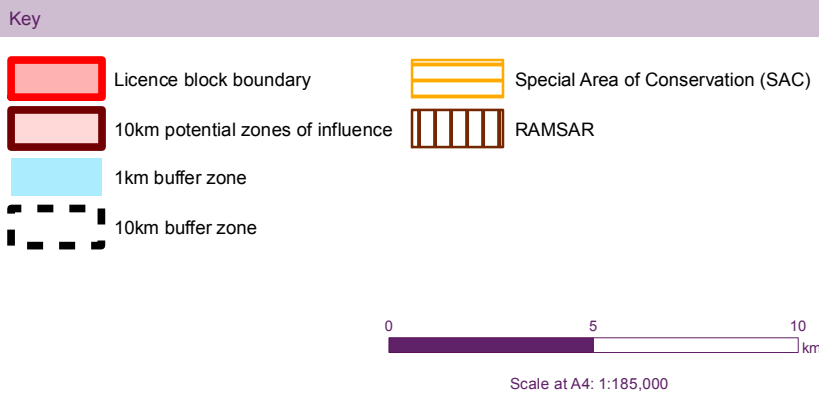
0   5   10
km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SJ75

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Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

RAMSAR

Labels on map:
- Rostherne Mere Ramsar
- Midland Meres and Mosses Phase 1 Ramsar
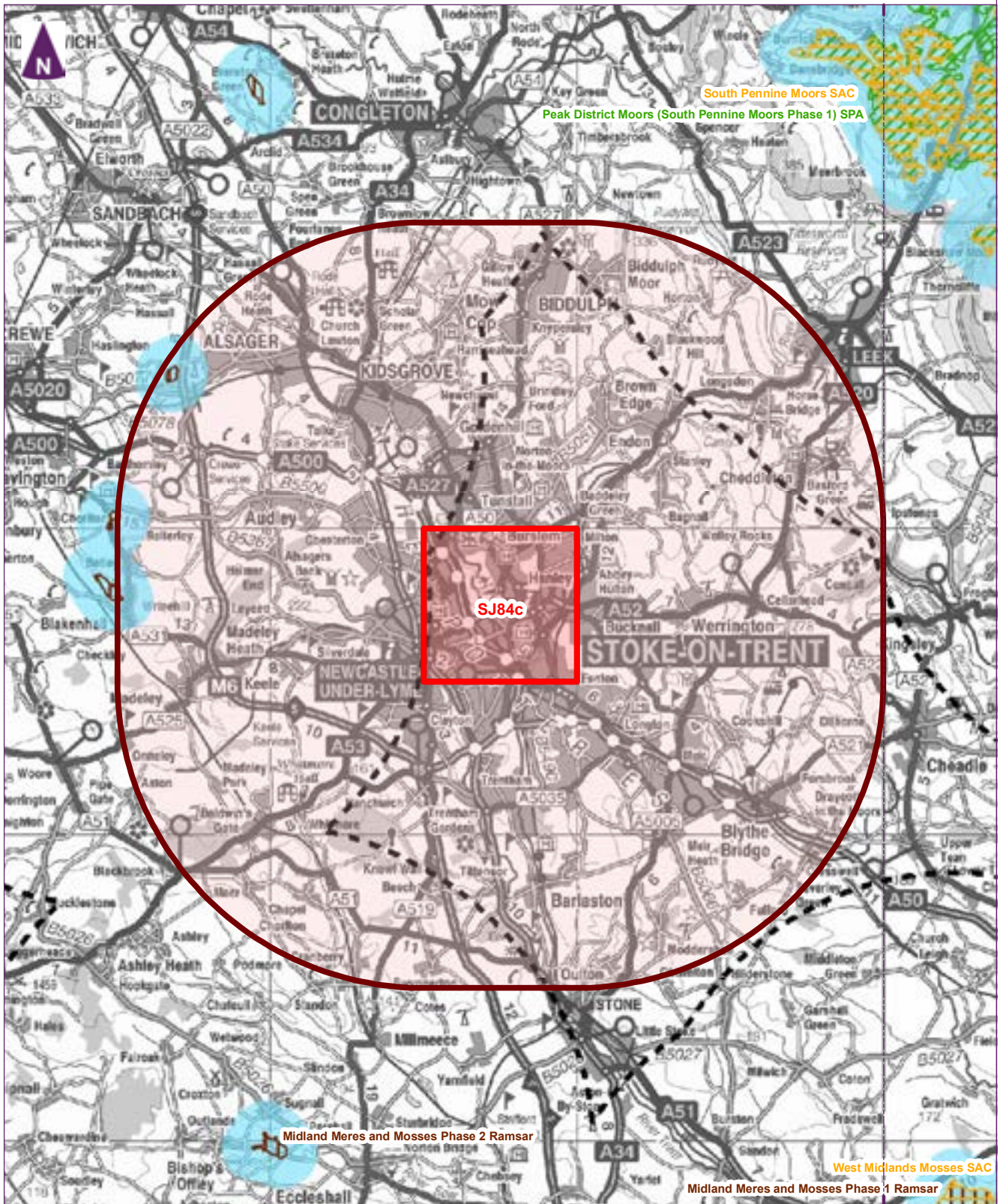- Midland Meres and Mosses Phase 2 Ramsar
- West Midlands Mosses SAC
- SJ76

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Figure 1
HRA of Licence Application Block SJ76

0   5   10
km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	RAMSAR
1km buffer zone	
10km buffer zone	

Manchester Mosses SAC
Rixton Clay Pits SAC
Rostherne Mere Ramsar
Midland Meres and Mosses Phase 1 Ramsar
SJ77
Midland Meres and Mosses Phase 2 Ramsar
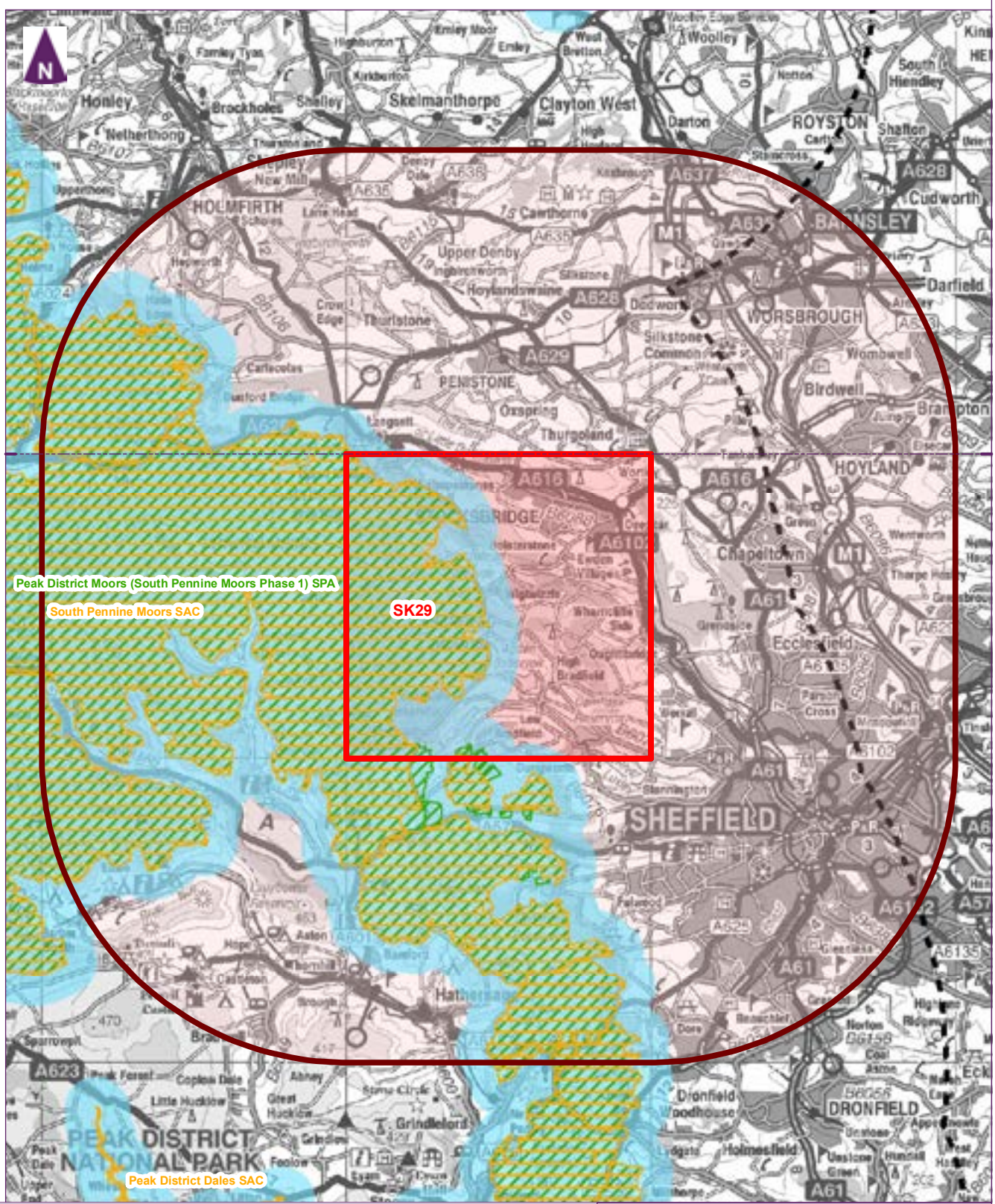West Midlands Mosses SAC

0   5   10
km
Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
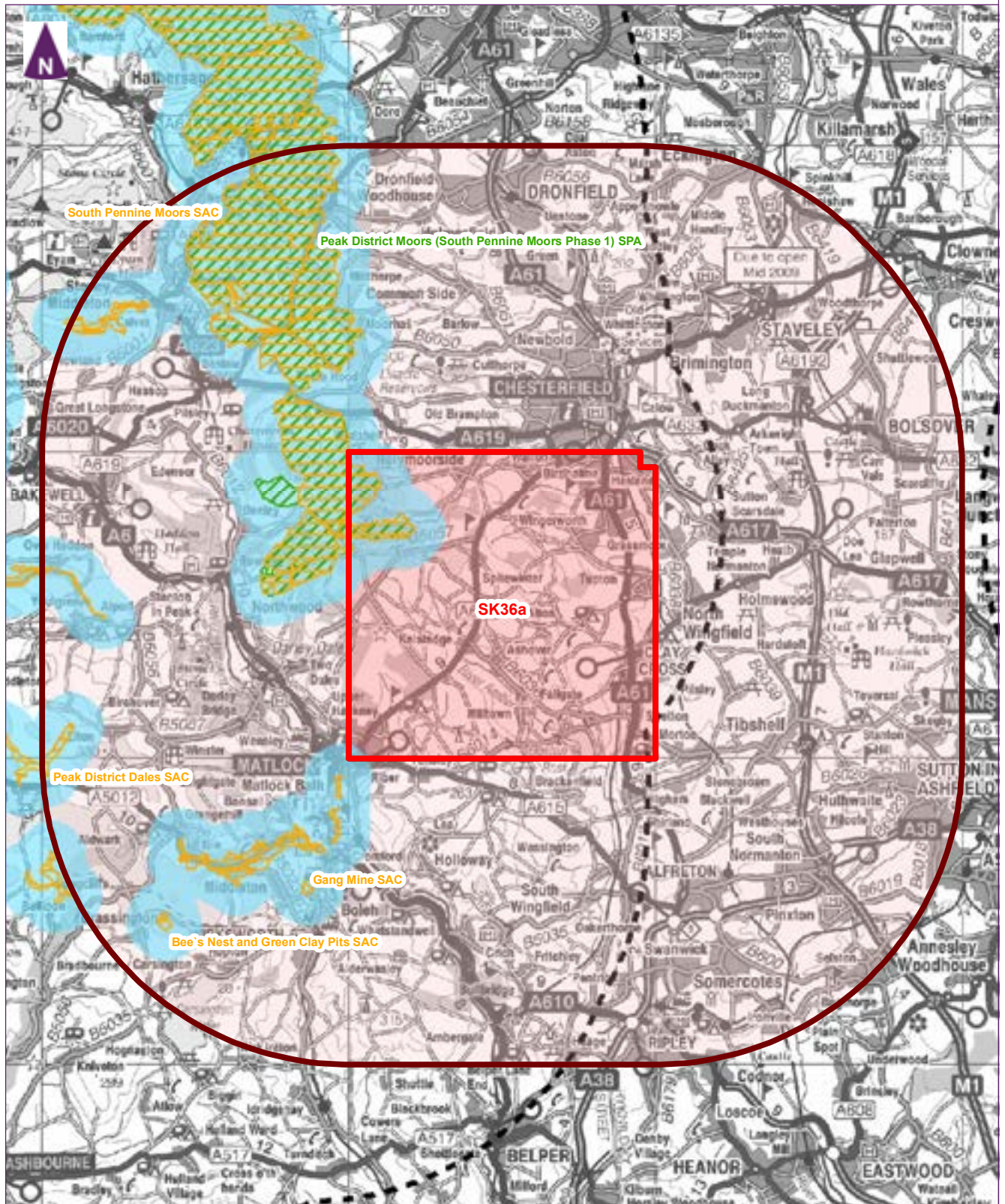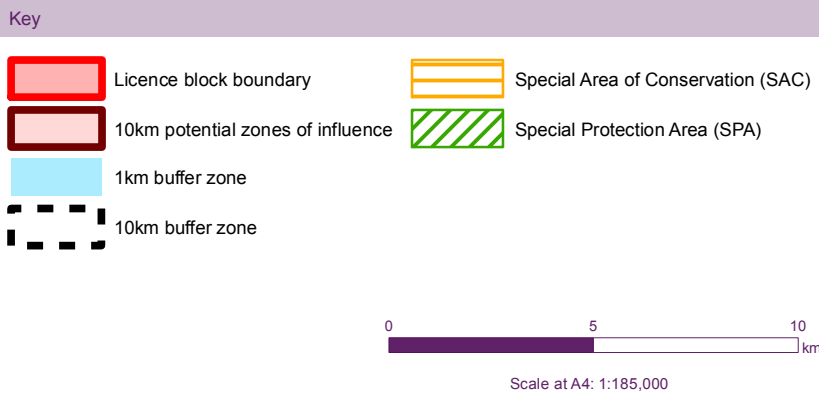Department of Energy and Climate Change

Figure 1
HRA of Licence Application Block SJ77

November 2015   33917-Lea46c.mxd BROWJ

Key

▭ (red outline, pink fill)	Licence block boundary
▭ (dark red outline, pink fill)	10km potential zones of influence
▭ (light blue)	1km buffer zone
▭ (black dashed)	10km buffer zone
▭ (orange outline)	Special Area of Conservation (SAC)
▭ (brown hatched)	RAMSAR

Map labels:
- Rochdale Canal SAC
- Manchester Mosses SAC
- Rixton Clay Pits SAC
- Rostherne Mere Ramsar
- SJ78
- Midland Meres and Mosses Phase 1 Ramsar
- Midland Meres and Mosses Phase 2 Ramsar
- West Midlands Mosses SAC

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Figure 1
HRA of Licence Application Block SJ78

0   5   10
km

Scale at A4: 1:185,000

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Key

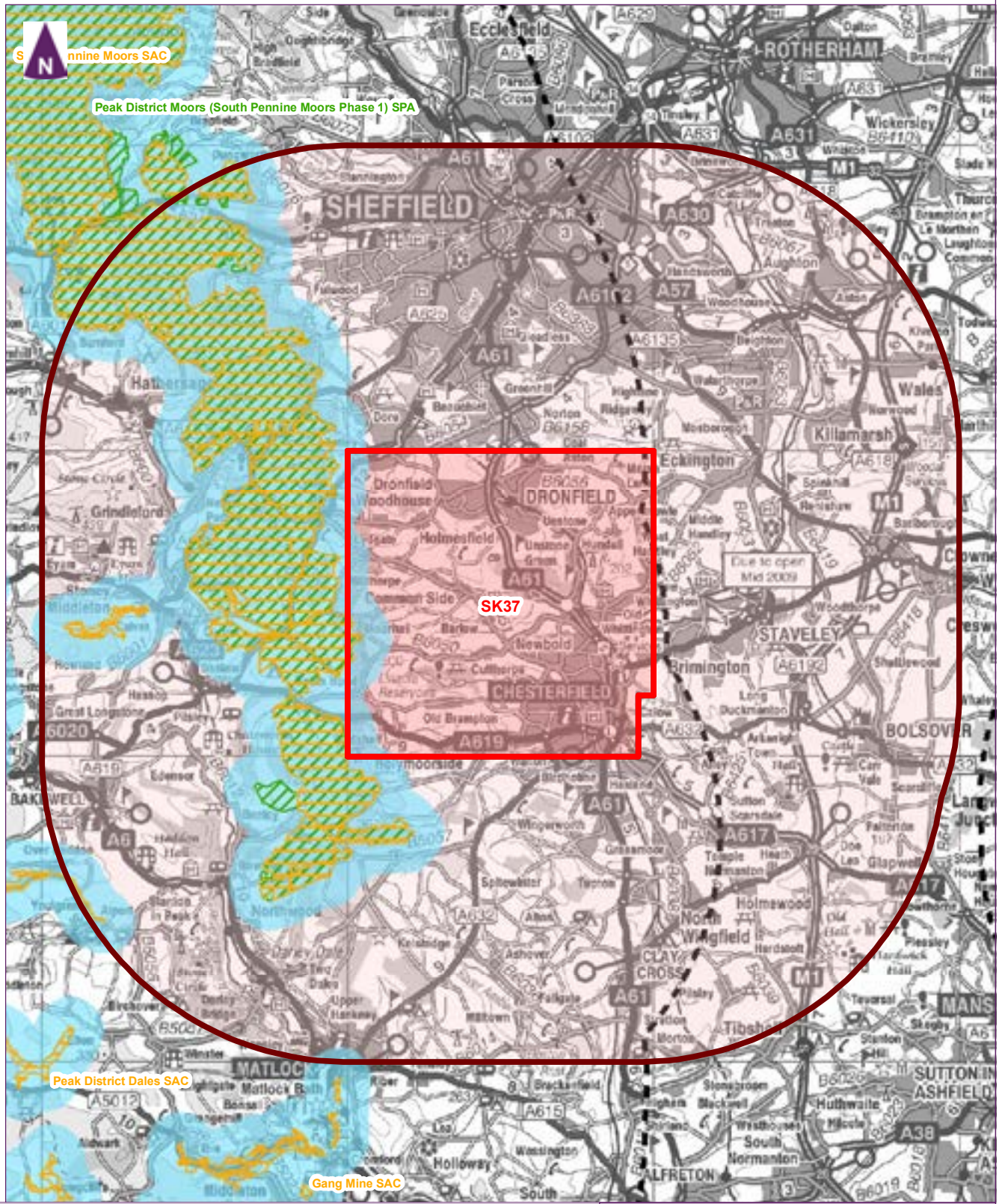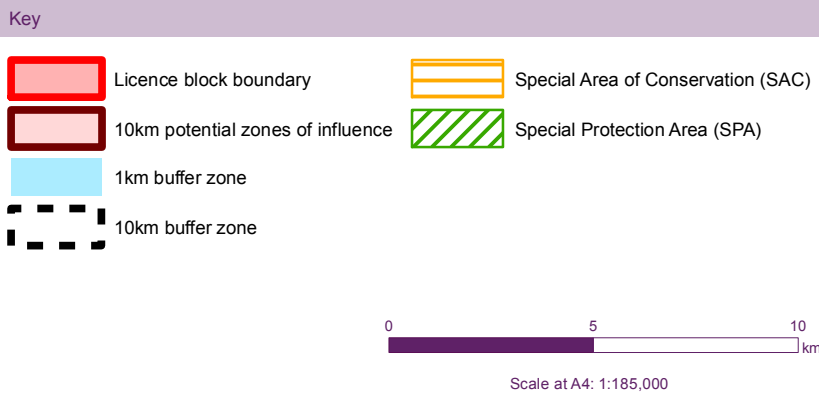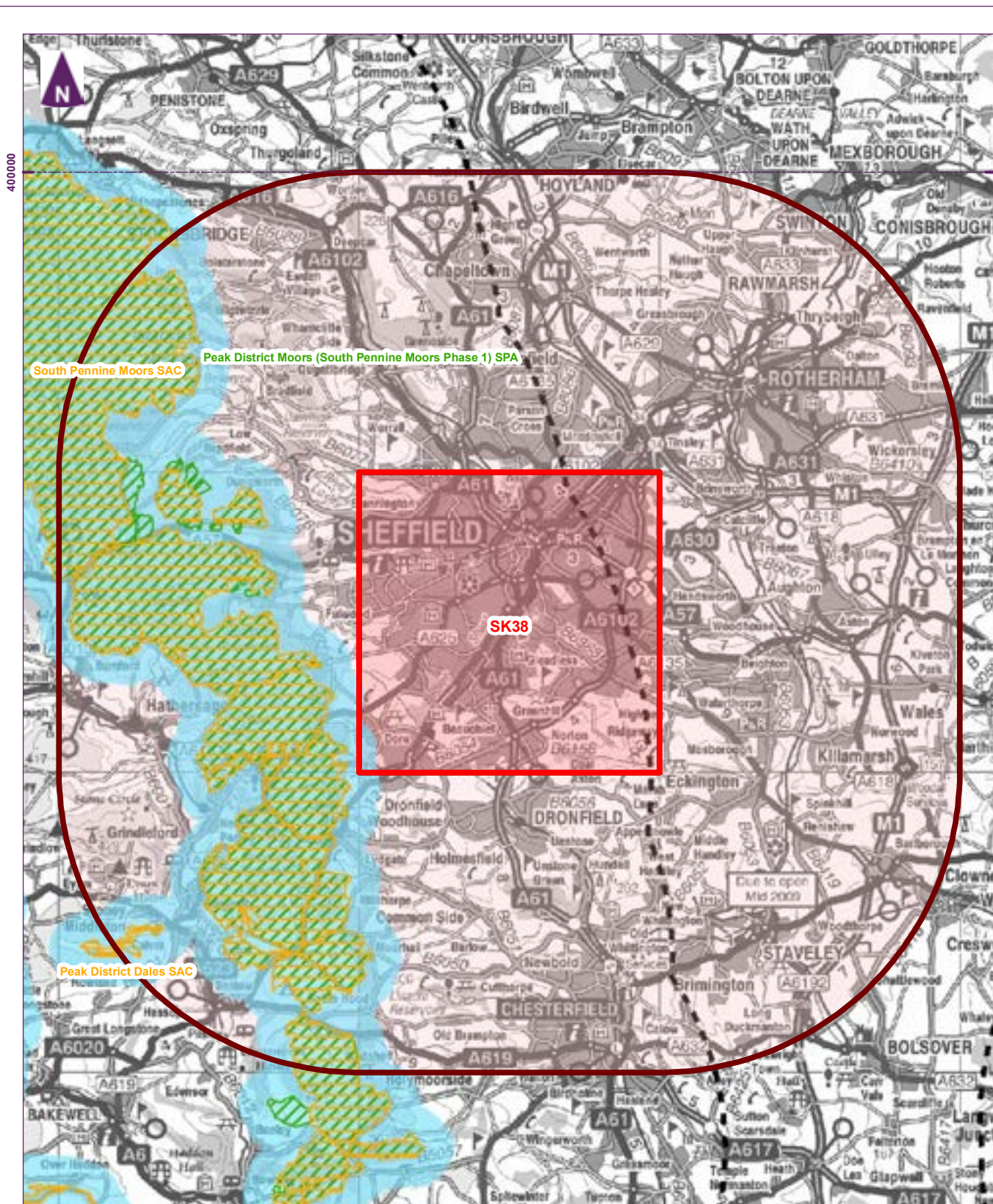|			
▭	Licence block boundary	▭	Special Area of Conservation (SAC)
▭	10km potential zones of influence	▨	Special Protection Area (SPA)
▦	1km buffer zone	▥	RAMSAR
▭	10km buffer zone		

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Figure 1
HRA of Licence Application Block SJ84c

0   5   10
km

Scale at A4: 1:185,000

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Key

Licence block boundary		Special Area of Conservation (SAC)	
10km potential zones of influence		Special Protection Area (SPA)	
1km buffer zone			
10km buffer zone			

Map labels:
- Peak District Moors (South Pennine Moors Phase 1) SPA
- South Pennine Moors SAC
- SK29
- Peak District Dales SAC
- 400000

Scale: 0 — 5 — 10 km
Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SK29

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

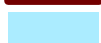Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SK36a

0   5   10
km
Scale at A4: 1:185,000

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South Pennine Moors SAC
Peak District Moors (South Pennine Moors Phase 1) SPA
SK36a
Peak District Dales SAC
Gang Mine SAC
Bee`s Nest and Green Clay Pits SAC

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Key

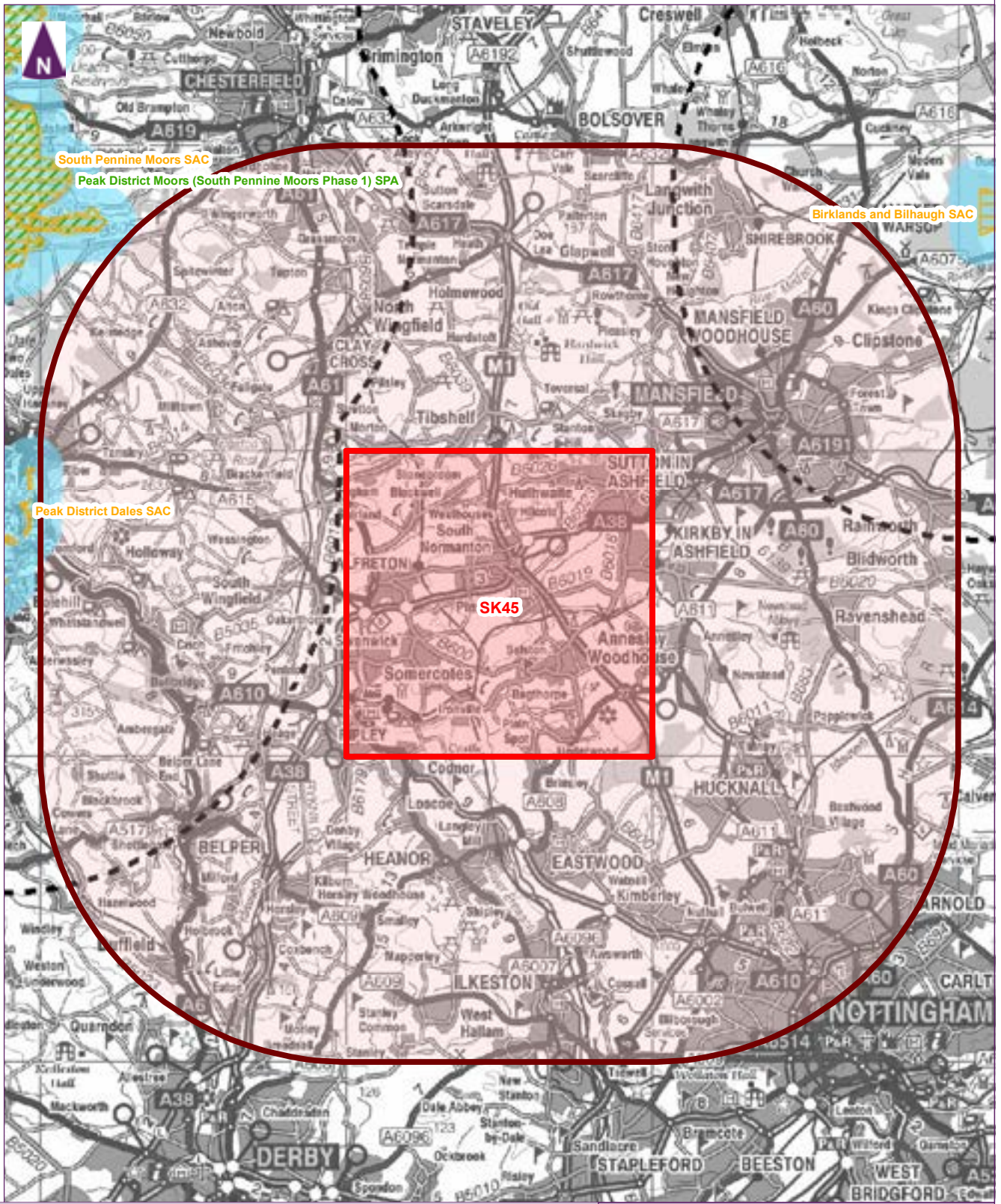|	
Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

Scale: 0 — 5 — 10 km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SK37

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North arrow label: **N**

Map labels:
- South Pennine Moors SAC
- Peak District Moors (South Pennine Moors Phase 1) SPA
- Peak District Dales SAC
- SK38

Key

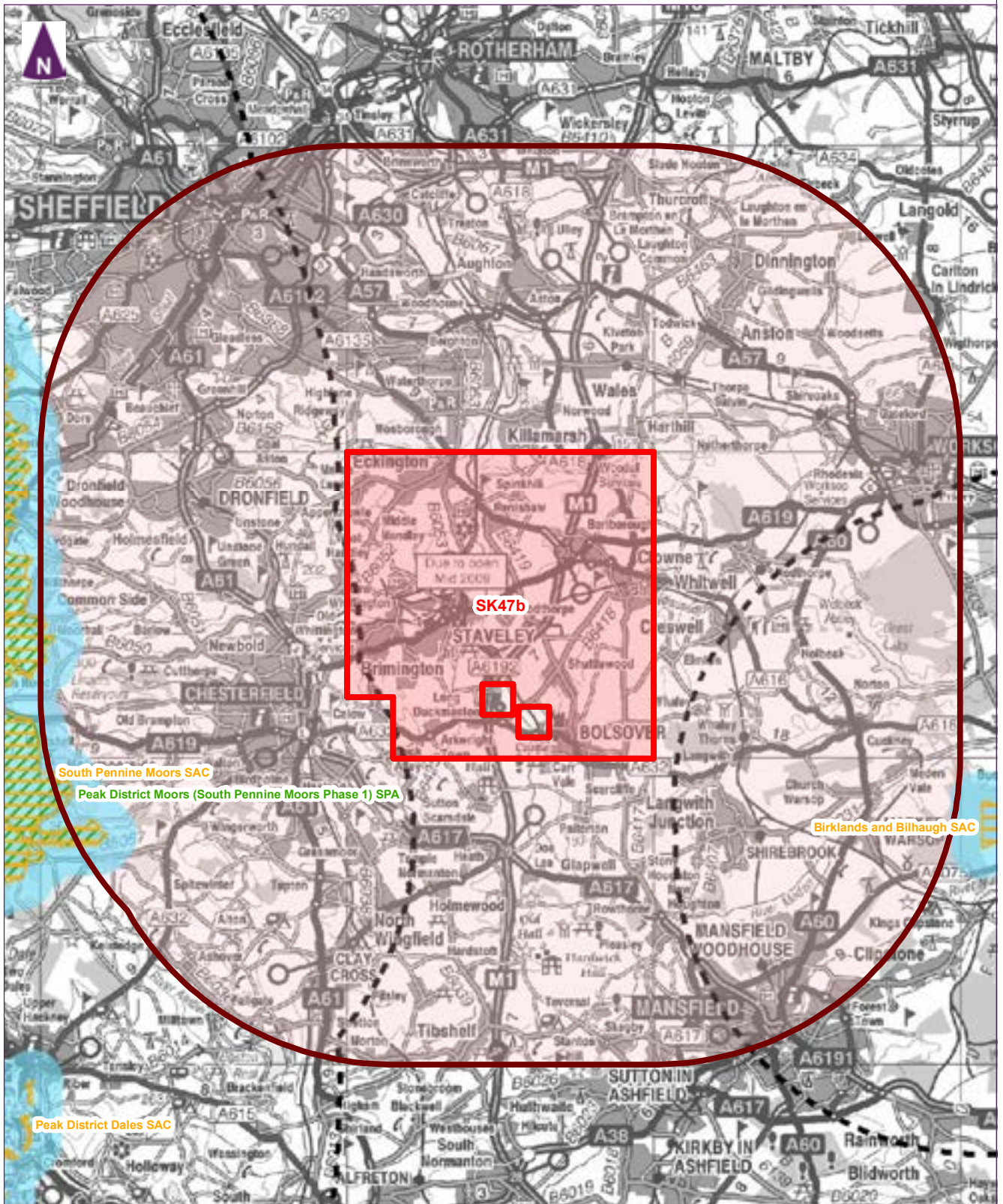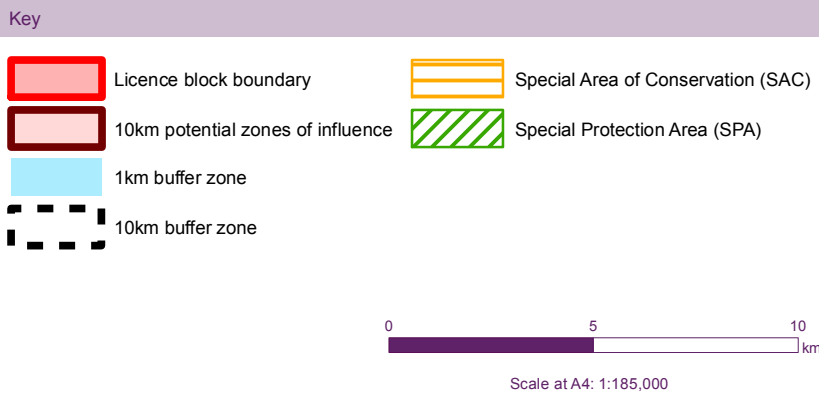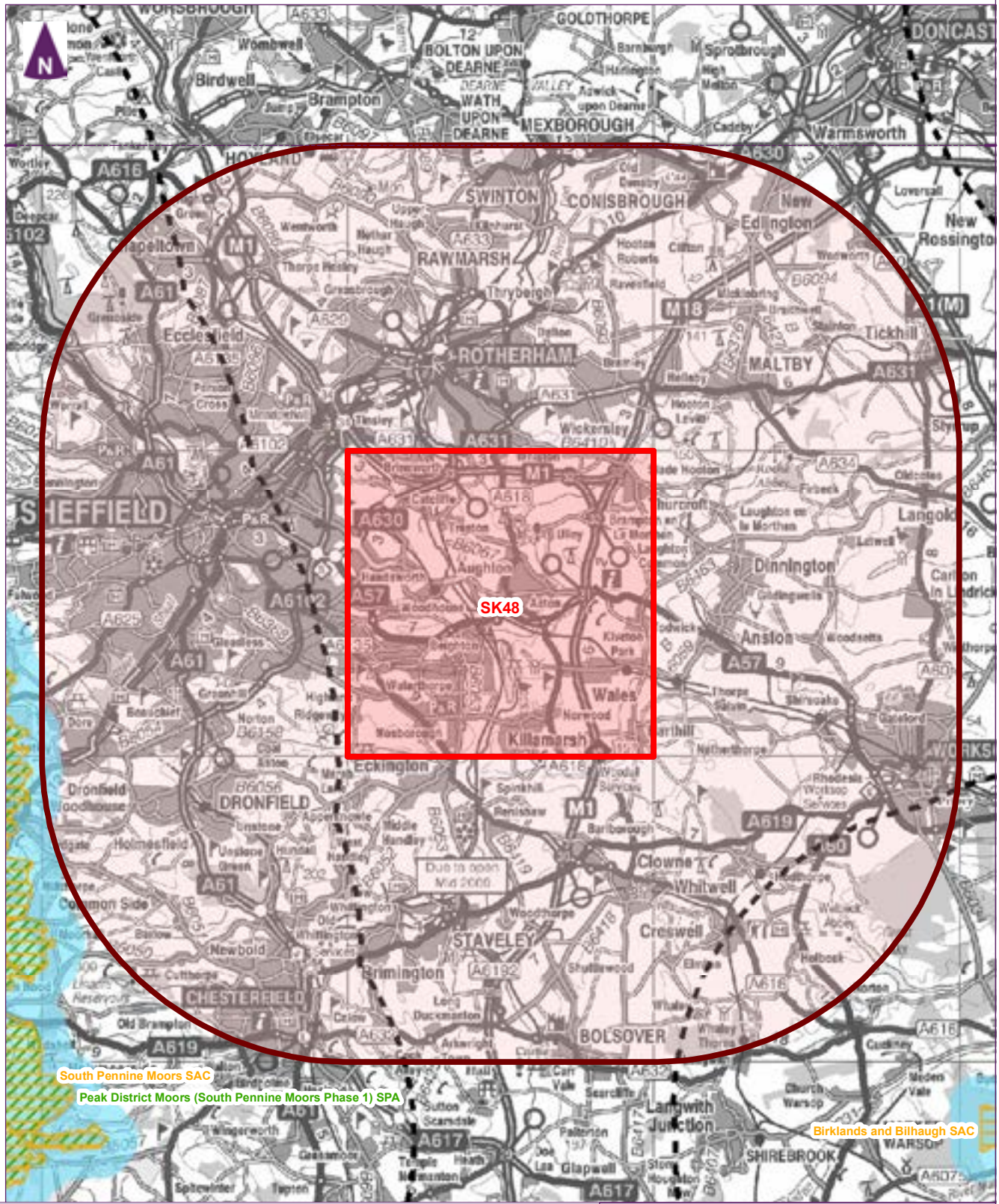|	
Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

Scale: 0 — 5 — 10 km
Scale at A4: 1:185,000

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**Figure 1
HRA of Licence Application Block
SK38**

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

South Pennine Moors SAC

Peak District Moors (South Pennine Moors Phase 1) SPA

SK39

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Figure 1
HRA of Licence Application Block SK39

0   5   10
km

Scale at A4: 1:185,000

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Key

▭ (red)	Licence block boundary
▭ (dark red)	10km potential zones of influence
▭ (blue)	1km buffer zone
┅┅ (dashed)	10km buffer zone

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Applications
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Figure 1
**HRA of Licence Application Block
SK43**

Scale at A4: 1:185,000

0   5   10
km

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

South Pennine Moors SAC
Peak District Moors (South Pennine Moors Phase 1) SPA
Birklands and Bilhaugh SAC
Peak District Dales SAC

SK45

0   5   10
km

Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
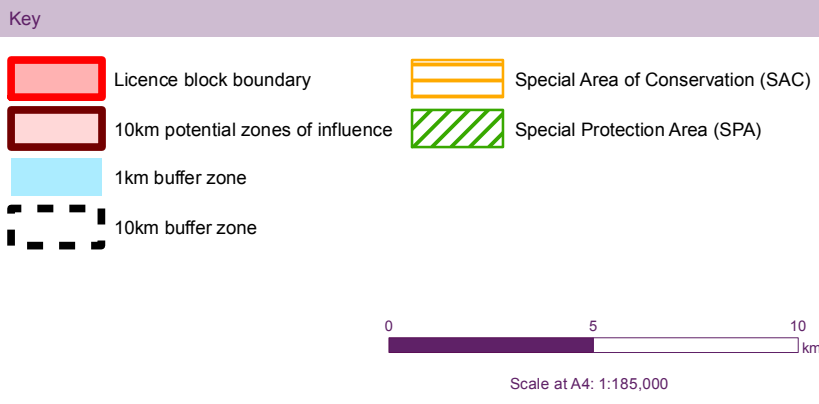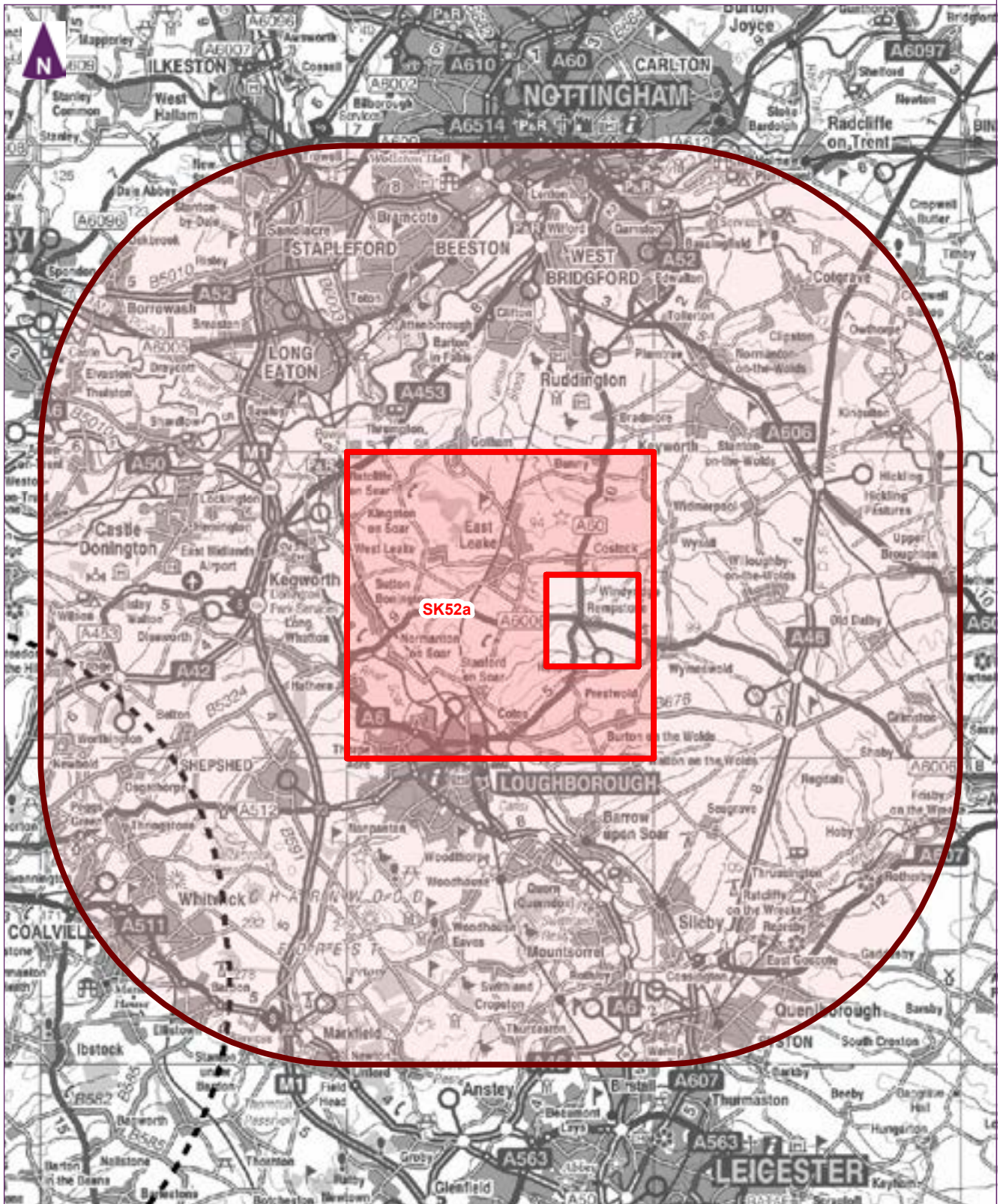**HRA of Licence Application Block SK45**

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Key

Symbol	Description
Licence block boundary	
10km potential zones of influence	
1km buffer zone	
10km buffer zone	
Special Area of Conservation (SAC)	
Special Protection Area (SPA)	

Map labels:
- Peak District Moors (South Pennine Moors Phase 1) SPA
- South Pennine Moors SAC
- Peak District Dales SAC
- Birklands and Bilhaugh SAC
- SK46c

Scale: 0 — 5 — 10 km
Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SK46c

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

SK47b

South Pennine Moors SAC
Peak District Moors (South Pennine Moors Phase 1) SPA
Birklands and Bilhaugh SAC
Peak District Dales SAC

0   5   10
km
Scale at A4: 1:185,000

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Key

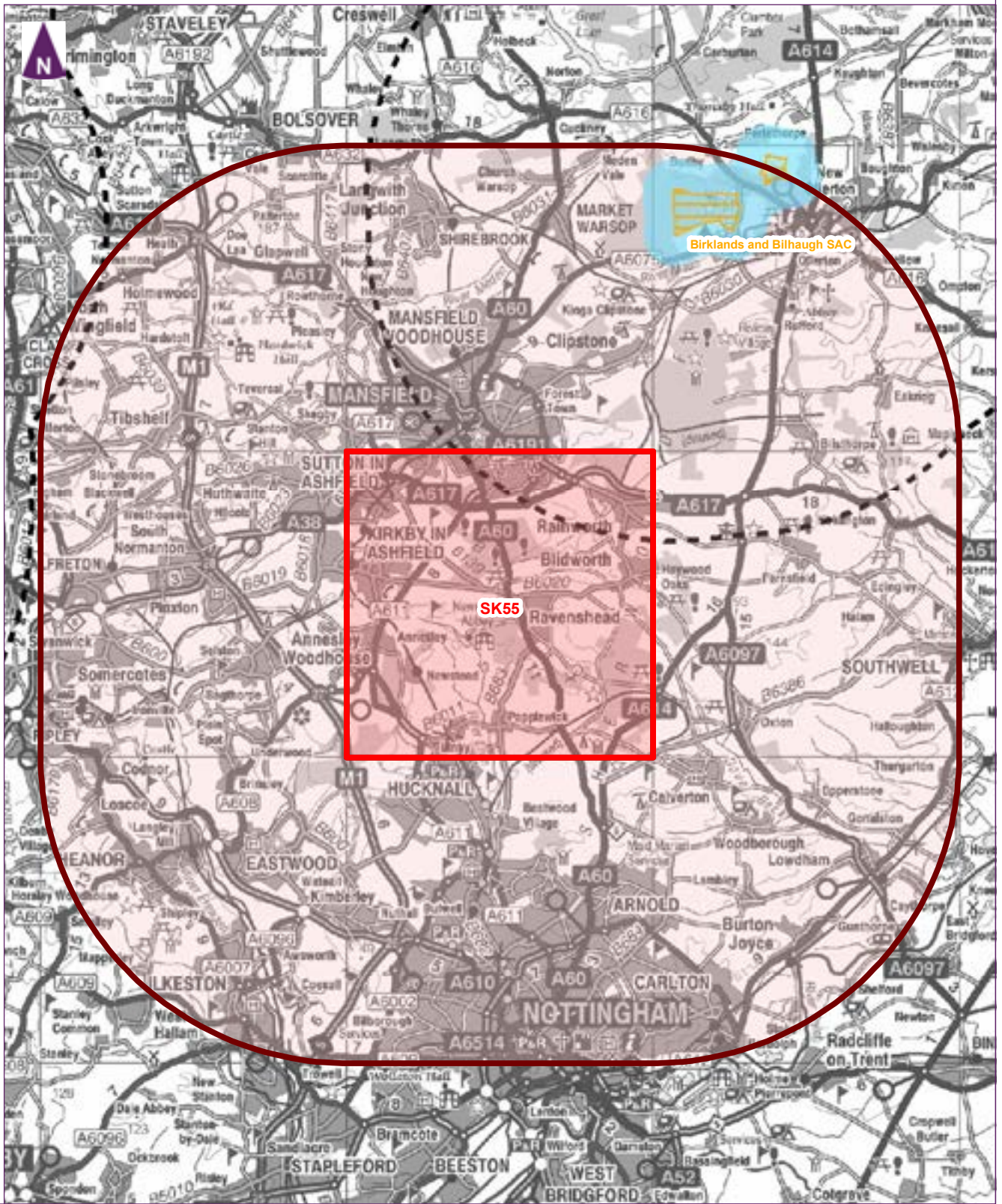|	
Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	
10km buffer zone	

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Figure 1
HRA of Licence Application Block SK48

Scale at A4: 1:185,000

0   5   10
km

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South Pennine Moors SAC
Peak District Moors (South Pennine Moors Phase 1) SPA
Birklands and Bilhaugh SAC

Key

▭ (red)	Licence block boundary
▭ (dark red)	10km potential zones of influence
▭ (blue)	1km buffer zone
▭▭▭ (dashed)	10km buffer zone
▭ (orange)	Special Area of Conservation (SAC)
▭ (green hatch)	Special Protection Area (SPA)

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Figure 1
HRA of Licence Application Block SK49

0   5   10
km

Scale at A4: 1:185,000

South Pennine Moors SAC
Peak District Moors (South Pennine Moors Phase 1) SPA

Key

Licence block boundary	
10km potential zones of influence	
10km buffer zone	

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Oil and Gas Licence
Applications
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Figure 1
HRA of Licence Application Block
SK52a

Scale at A4: 1:185,000

0 — 5 — 10 km

Key

- Licence block boundary
- 10km potential zones of influence
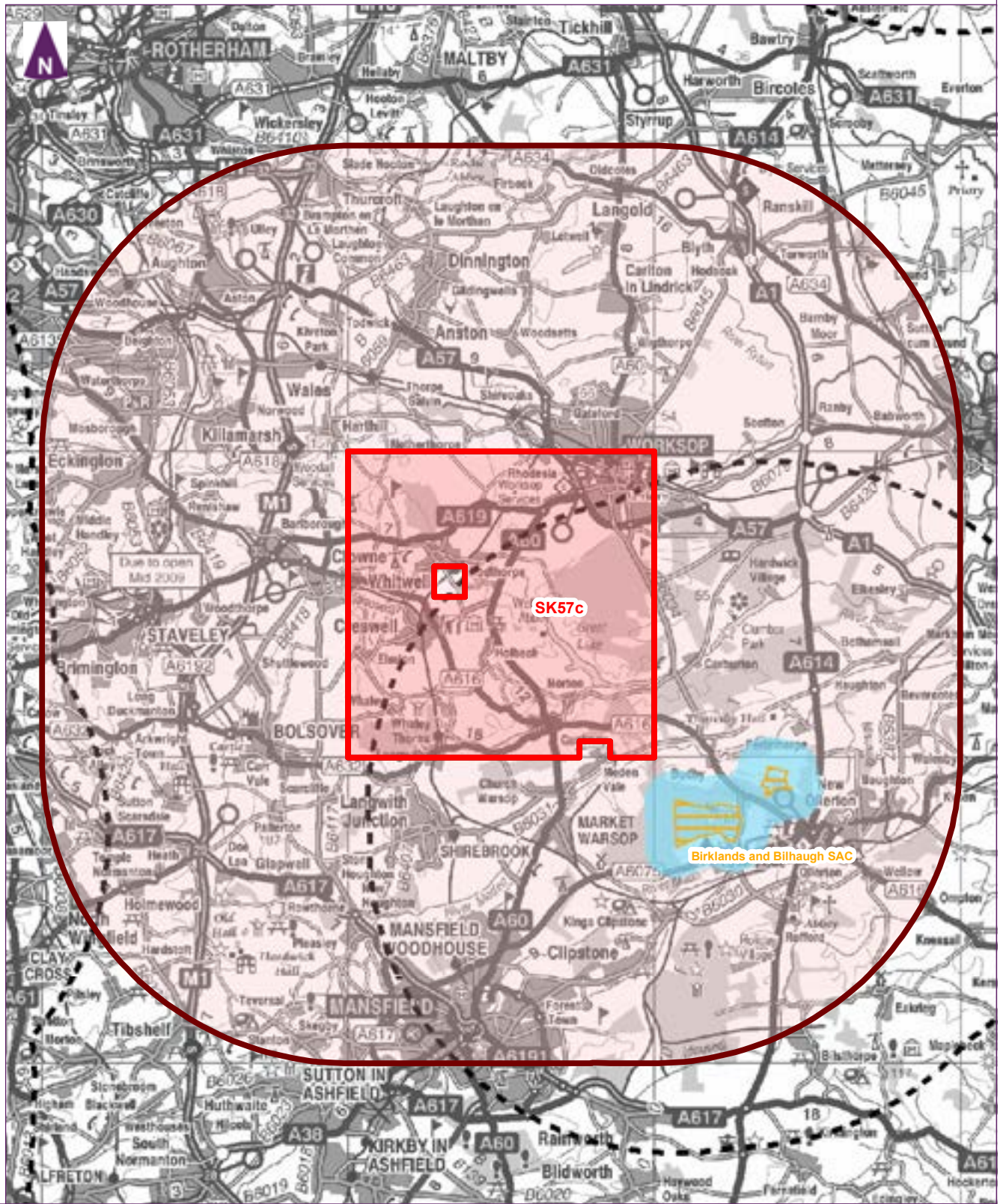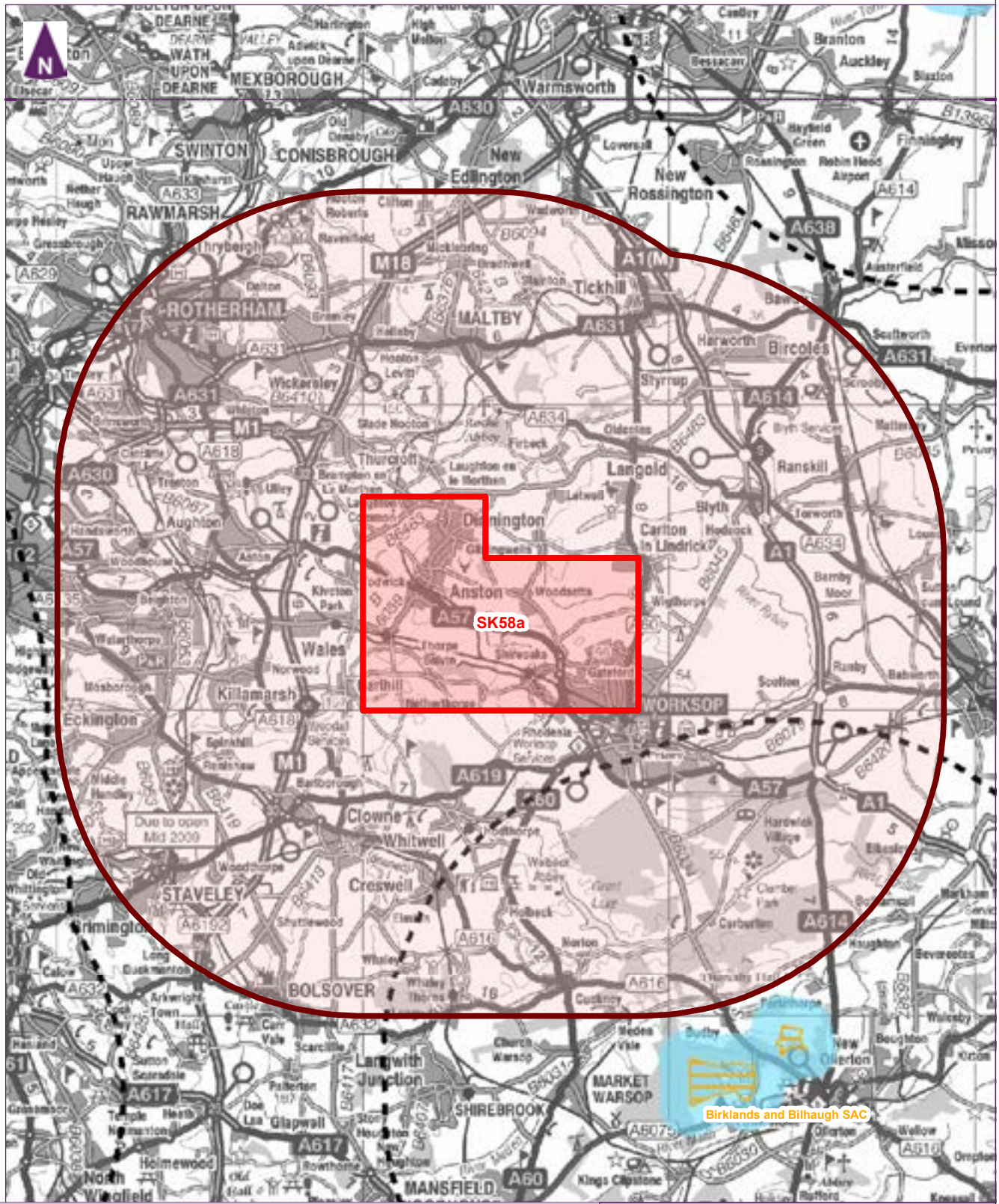- 10km buffer zone

0   5   10
km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SK53

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)

Birklands and Bilhaugh SAC

SK55

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Figure 1
HRA of Licence Application Block SK55

0   5   10
km

Scale at A4: 1:185,000

Key

▦	Licence block boundary
▦	10km potential zones of influence
▦	1km buffer zone
▭	10km buffer zone
▭	Special Area of Conservation (SAC)

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
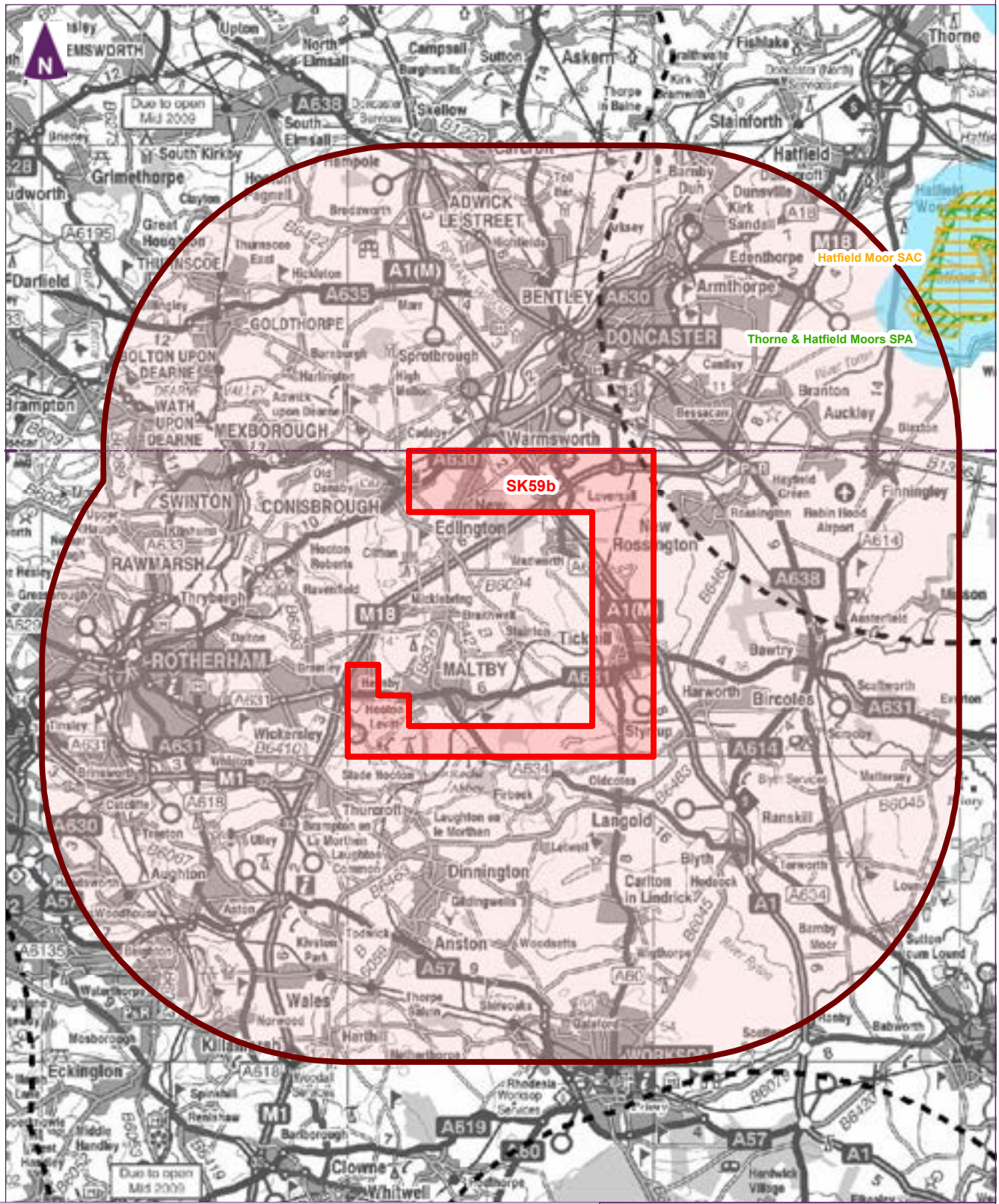Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SK56i

0   5   10
km
Scale at A4: 1:185,000

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Key

Licence block boundary	
10km potential zones of influence	
1km buffer zone	
10km buffer zone	
Special Area of Conservation (SAC)	

SK57c

Birklands and Bilhaugh SAC

ROTHERHAM
MALTBY
Tickhill
Bawtry
Bircotes
WORKSOP
MARKET WARSOP
MANSFIELD WOODHOUSE
MANSFIELD
SUTTON IN ASHFIELD
KIRKBY IN ASHFIELD
Blidworth
STAVELEY
BOLSOVER
SHIREBROOK
CLAY CROSS
Tibshelf

0   5   10
km

Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
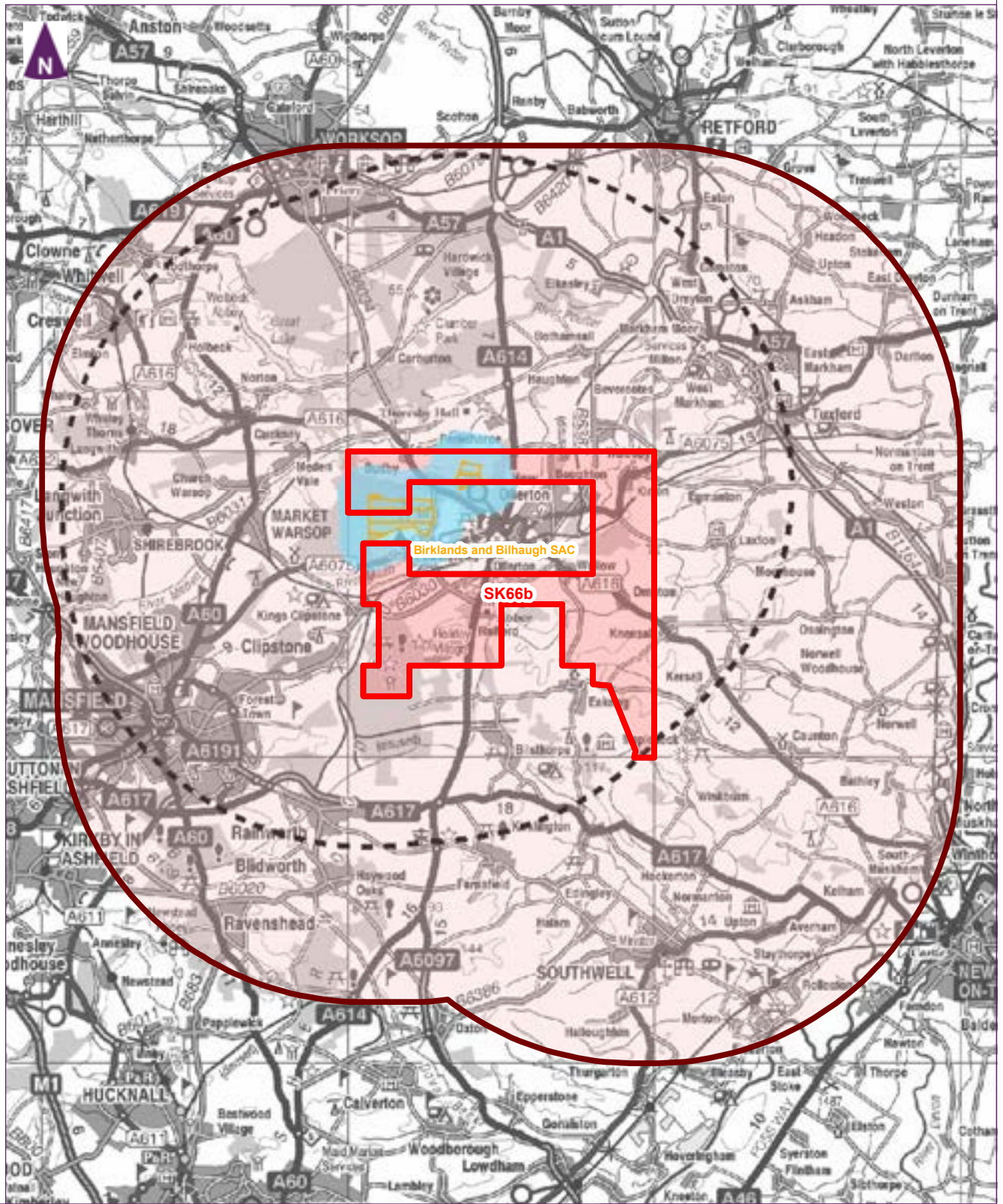**Department of Energy and Climate Change**

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Figure 1
HRA of Licence Application Block SK57c

November 2015   33917-Lea46c.mxd BROWJ

file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Key

� (red)	Licence block boundary	▭ (orange)	Special Area of Conservation (SAC)
▭ (pink)	10km potential zones of influence		
▭ (blue)	1km buffer zone		
▭ (dashed)	10km buffer zone		

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Figure 1
HRA of Licence Application Block SK58a

Scale at A4: 1:185,000

0   5   10 km

Figure 1
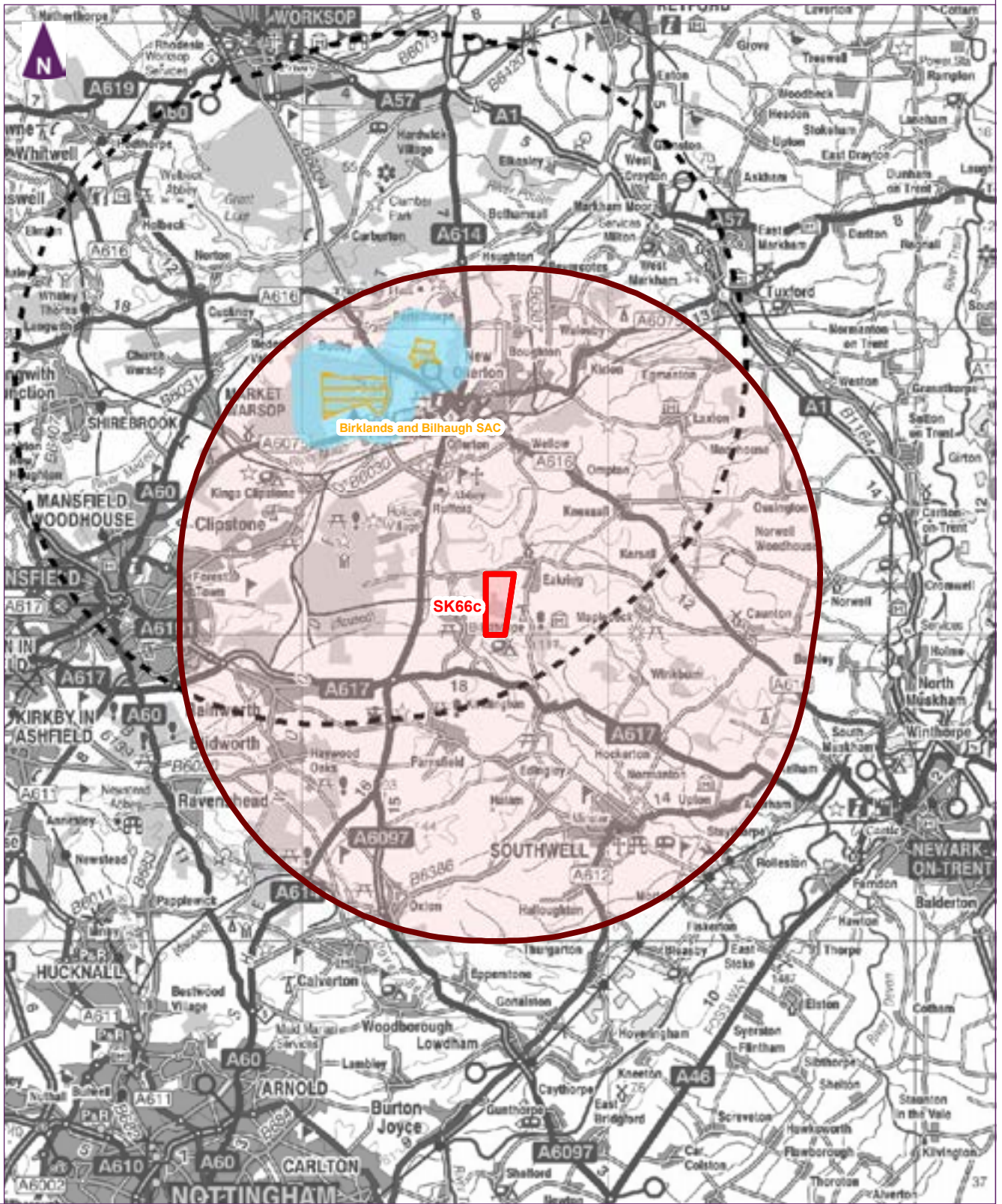**HRA of Licence Application Block SK59b**

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

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0   5   10
km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)

Birklands and Bilhaugh SAC

SK66c

N

Scale at A4: 1:185,000

0   5   10 km

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Figure 1
HRA of Licence Application Block SK66c

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file: H:\Projects\33917_LEA\33917-Lea46b map package\v101\33917-Lea46c.mxd

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)

SK67a

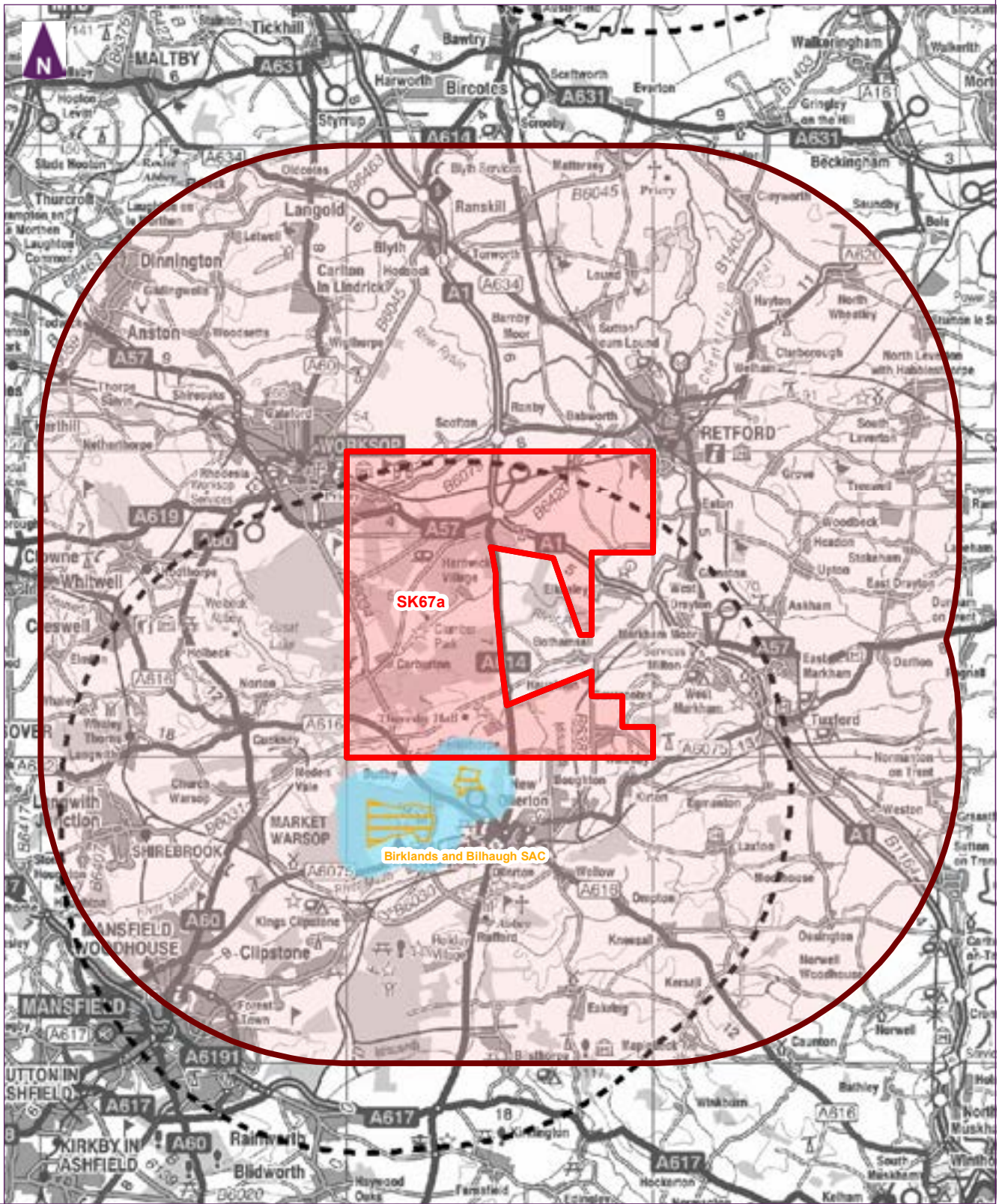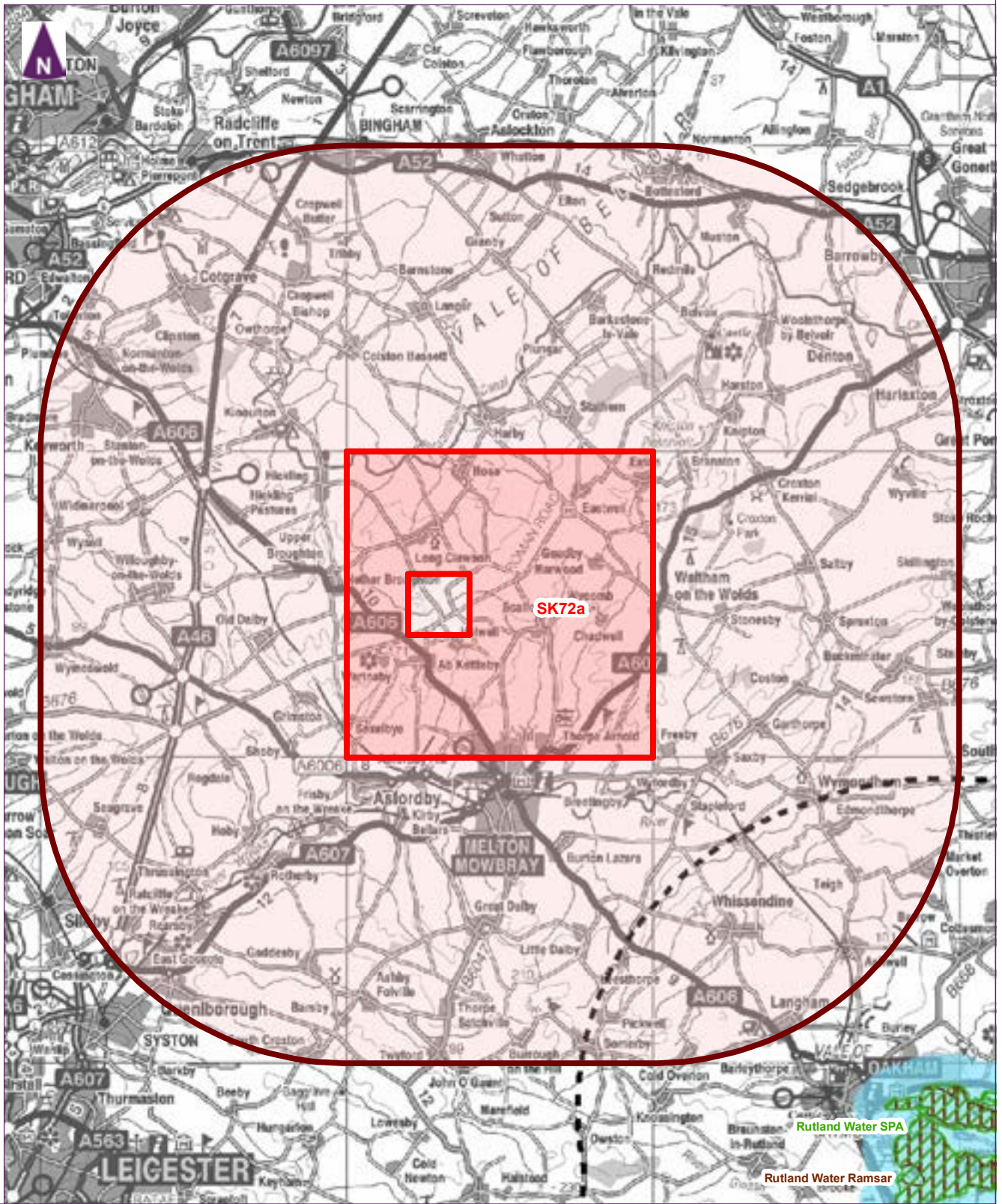Birklands and Bilhaugh SAC

0   5   10 km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SK67a

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Key

Licence block boundary	Special Protection Area (SPA)
10km potential zones of influence	RAMSAR
1km buffer zone	
10km buffer zone	

Scale at A4: 1:185,000

0   5   10 km

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Figure 1
HRA of Licence Application Block SK72a

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Birklands and Bilhaugh SAC

SK76b

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	
1km buffer zone	
10km buffer zone	

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Figure 1
HRA of Licence Application Block SK76b

0   5   10
km
Scale at A4: 1:185,000

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Key

Licence block boundary

10km potential zones of influence

10km buffer zone

Scale at A4: 1:185,000

0   5   10
                    km

Key

Licence block boundary

10km potential zones of influence

10km buffer zone

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Figure 1
**HRA of Licence Application Block
SK87b**

0   5   10
km

Scale at A4: 1:185,000

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SK87c

Key

Licence block boundary

10km potential zones of influence

10km buffer zone

0   5   10
km

Scale at A4: 1:185,000

Key

■ Licence block boundary

■ 10km potential zones of influence

■ 1km buffer zone

--- 10km buffer zone

▭ Special Area of Conservation (SAC)

▨ Special Protection Area (SPA)

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Figure 1
HRA of Licence Application Block SK88b

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0   5   10
km

Scale at A4: 1:185,000

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Key

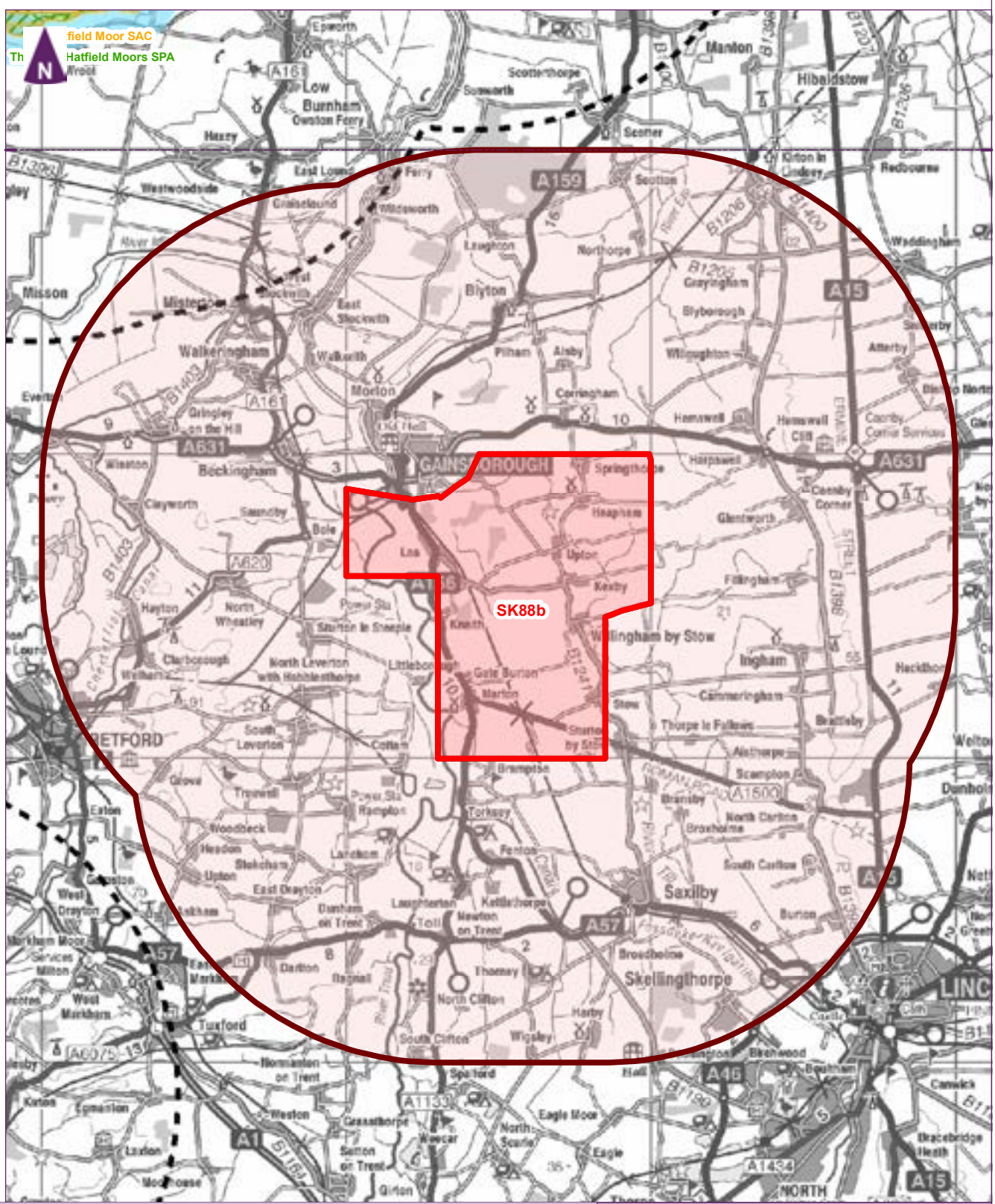|	
(red outline)	Licence block boundary
(pink shading)	10km potential zones of influence
(light blue)	1km buffer zone
(black dashed line)	10km buffer zone
(orange)	Special Area of Conservation (SAC)
(green hatched)	Special Protection Area (SPA)
(brown)	RAMSAR

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
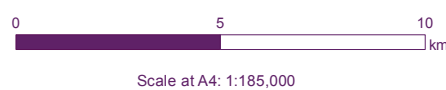**HRA of Licence Application Block SK89e**

0   5   10 km

Scale at A4: 1:185,000

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Key

Licence block boundary

10km potential zones of influence

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Figure 1
**HRA of Licence Application Block
SK96**

0   5   10
km
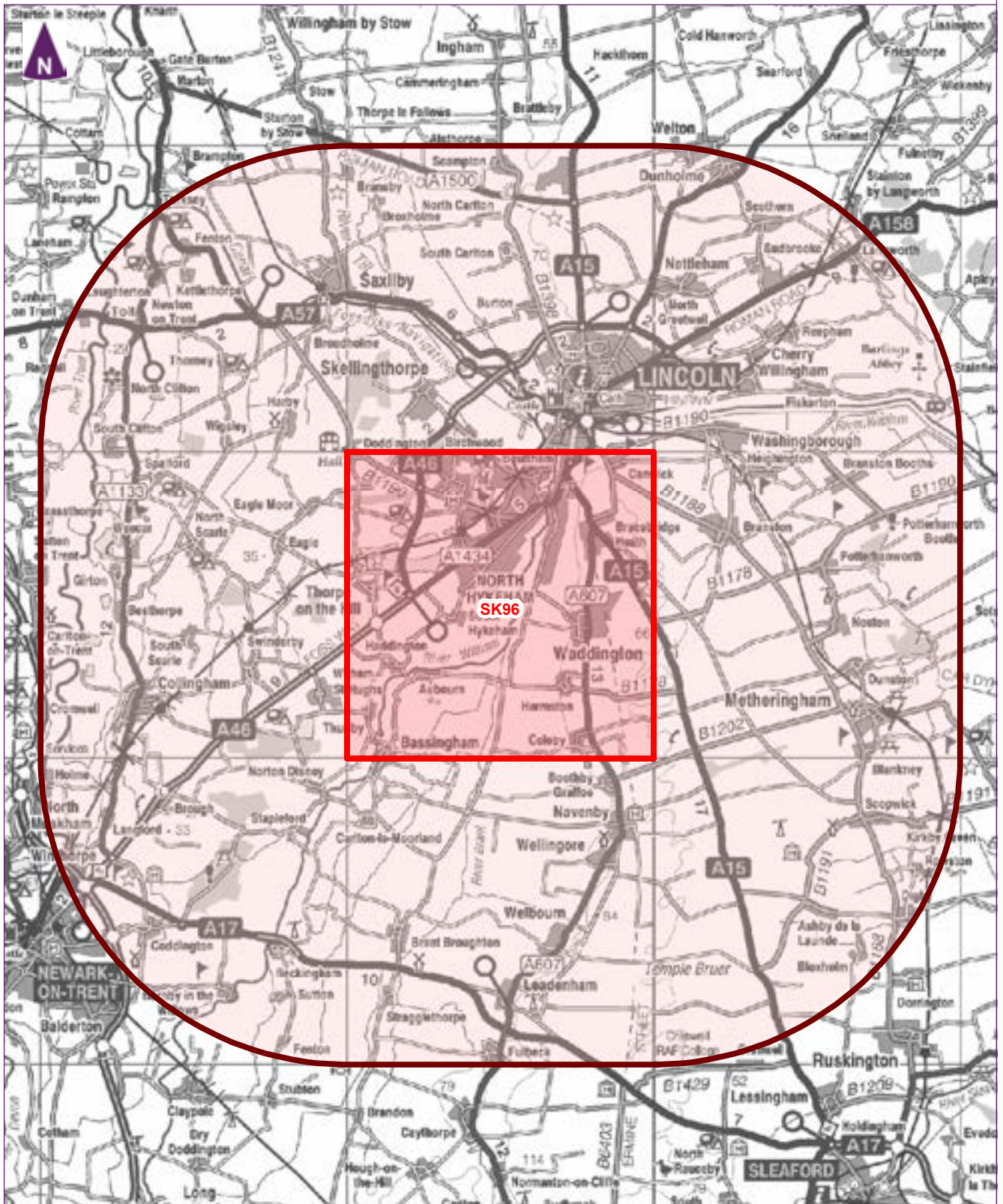
Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- RAMSAR

Humber Estuary Ramsar

SK99a

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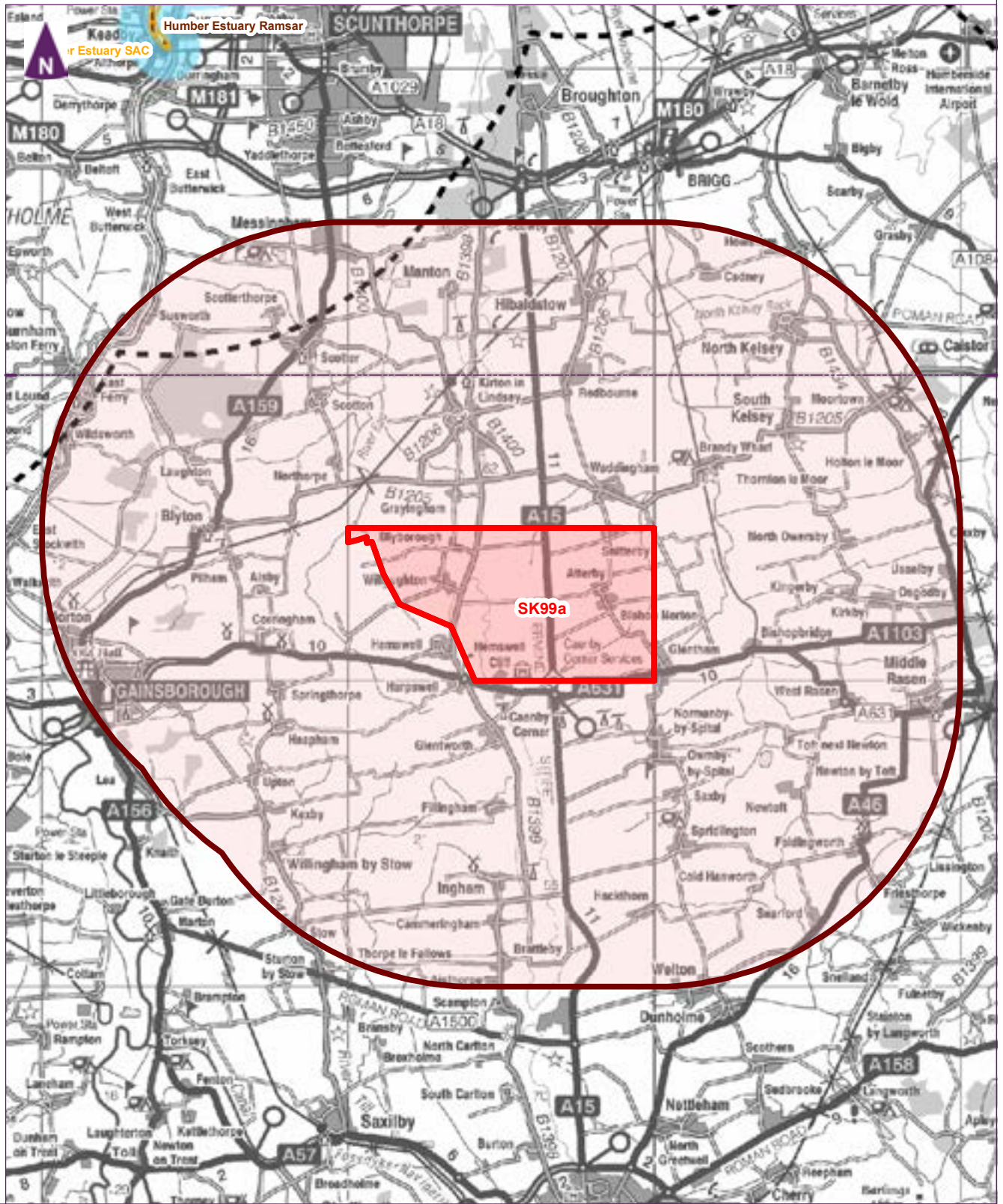
Figure 1
HRA of Licence Application Block SK99a

0   5   10 km

Scale at A4: 1:185,000

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

Wye Valley and Forest of Dean Bat Sites/ Safleoedd Ystlumod Dyffryn Gwy a Fforest y Ddena SAC

SO50

River Usk/ Afon Wysg SAC

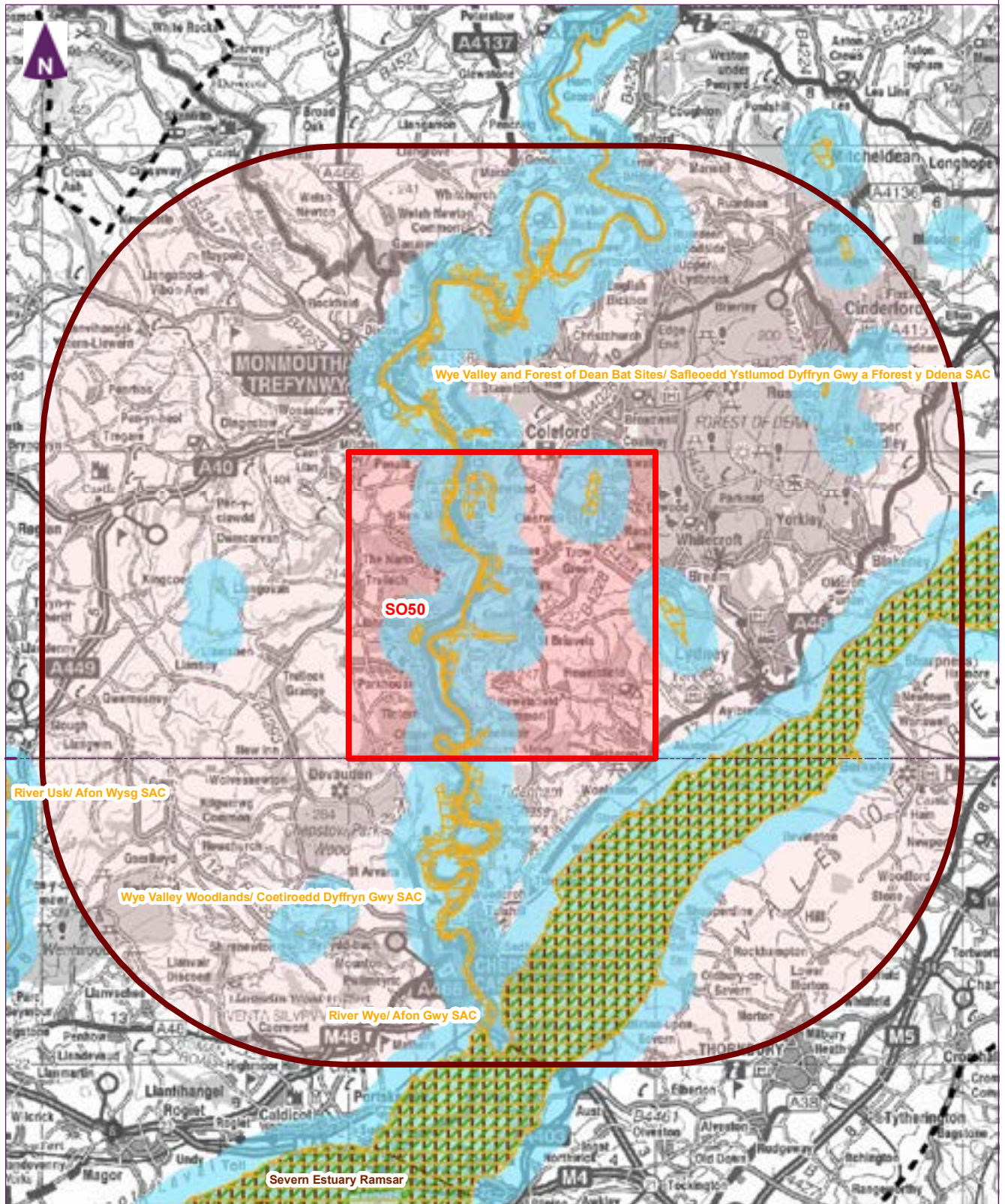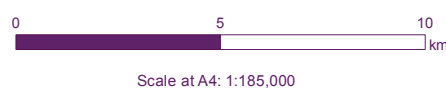Wye Valley Woodlands/ Coetiroedd Dyffryn Gwy SAC

River Wye/ Afon Gwy SAC

Severn Estuary Ramsar

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Figure 1
HRA of Licence Application Block SO50

0   5   10 km

Scale at A4: 1:185,000

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

Wye Valley and Forest of Dean Bat Sites/ Safleoedd Ystlumod Dyffryn Gwy a Fforest y Ddena SAC

Wye Valley Woodlands/ Coetiroedd Dyffryn Gwy SAC

River Wye/ Afon Gwy SAC

SO51

River Usk/ Afon Wysg SAC

Severn Estuary/Môr Hafren SPA
Severn Estuary Ramsar

Severn Estuary/Môr Hafren SAC

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

Figure 1
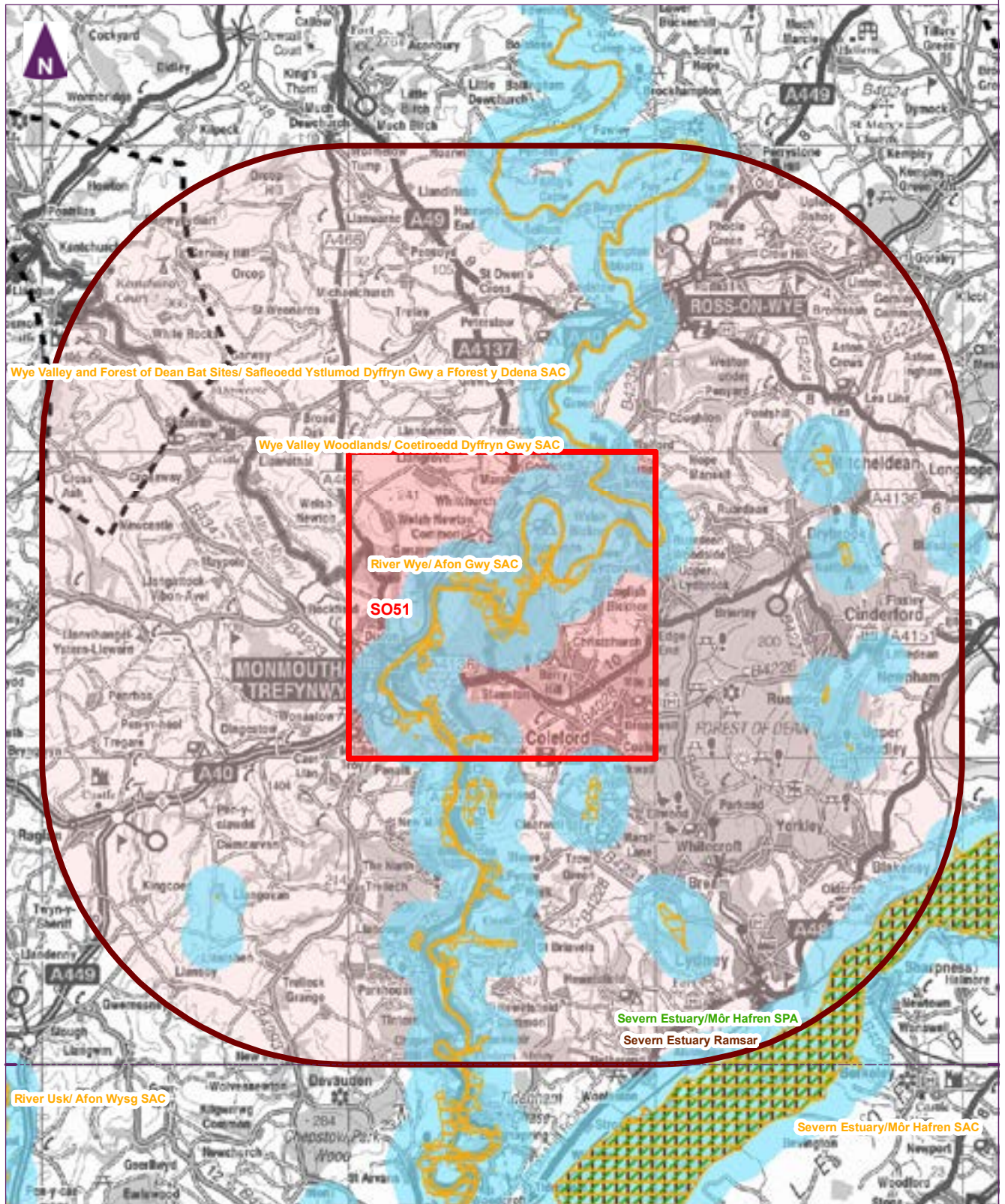**HRA of Licence Application Block SO51**

0 — 5 — 10 km

Scale at A4: 1:185,000

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

Map labels:
- Wye Valley Woodlands/ Coetiroedd Dyffryn Gwy SAC
- Walmore Common SPA Walmore Common Ramsar
- Wye Valley and Forest of Dean Bat Sites/ Safleoedd Ystlumod Dyffryn Gwy a Fforest y Ddena SAC
- SO60a
- Severn Estuary Ramsar
- Severn Estuary/Môr Hafren SPA
- Severn Estuary/Môr Hafren SAC
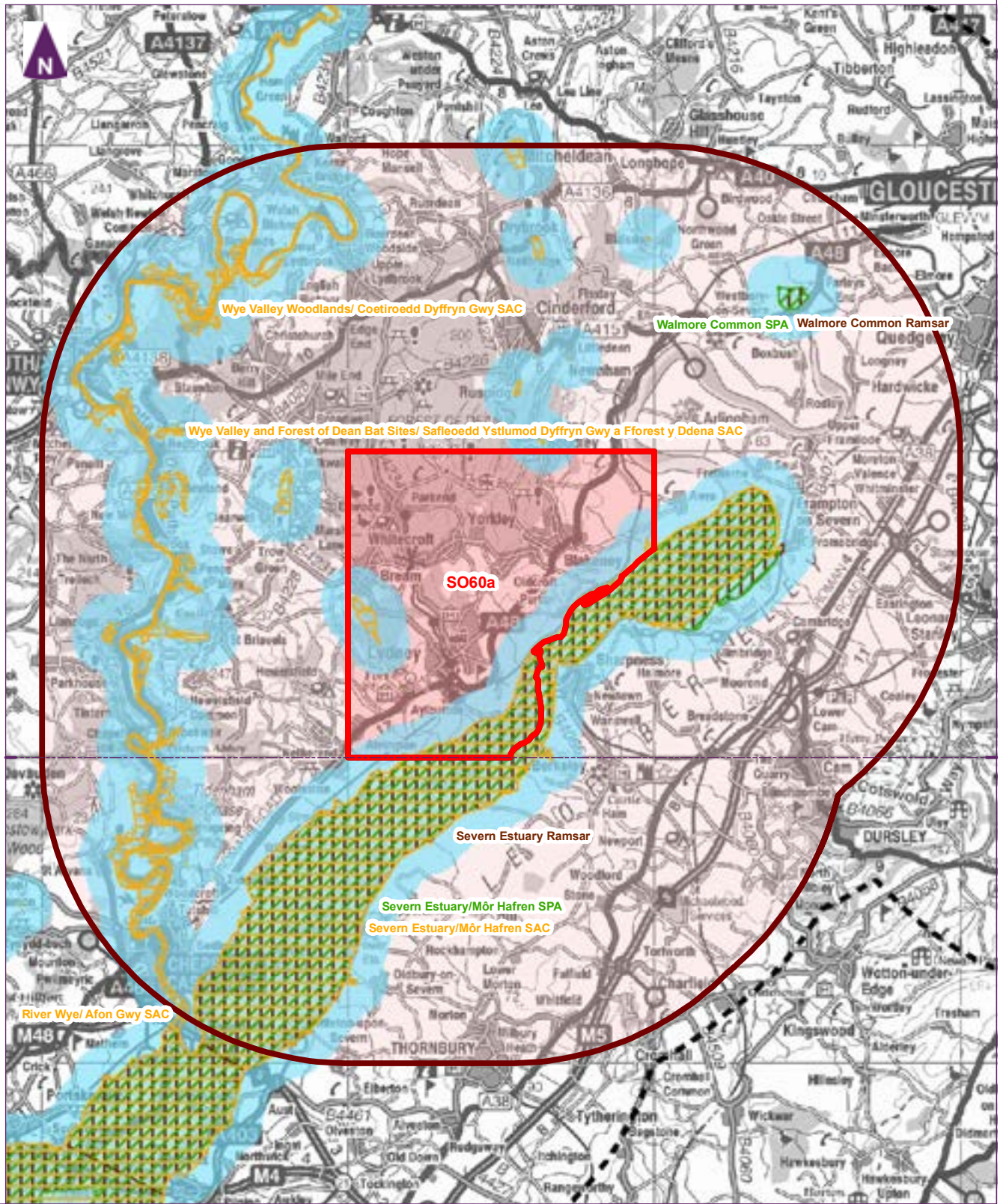- River Wye/ Afon Gwy SAC

Scale:
0   5   10 km
Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
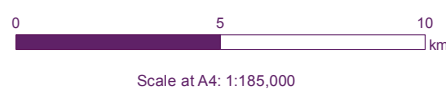Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SO60a

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file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Key

▭ Licence block boundary		▭ Special Area of Conservation (SAC)	
▭ 10km potential zones of influence		▨ Special Protection Area (SPA)	
▭ 1km buffer zone		▥ RAMSAR	
▭ 10km buffer zone			

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
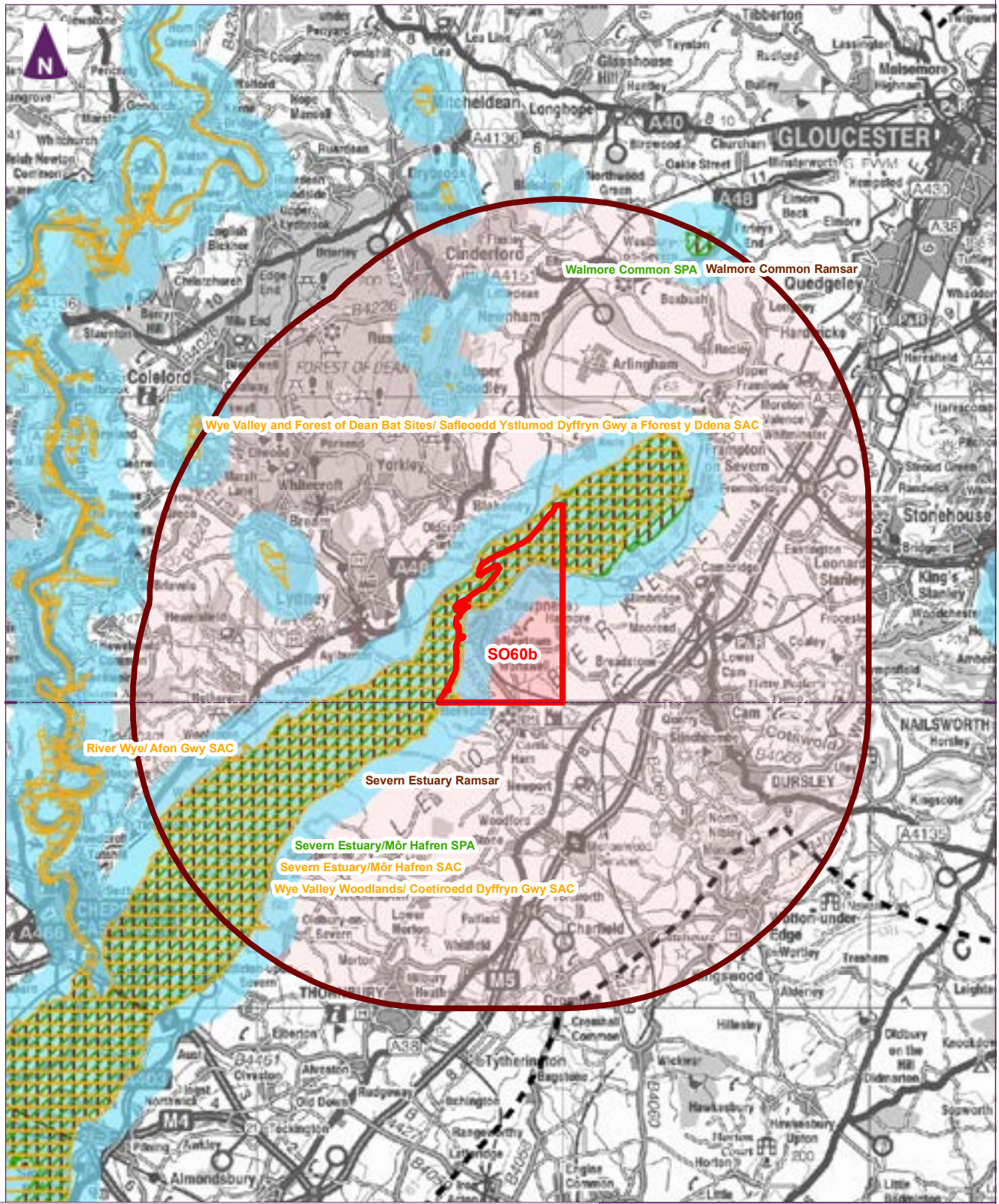Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SO60b

0   5   10 km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

file: H:\Projects\33917_LEA\33917-Lea46b map package\v101\33917-Lea46c.mxd

Map labels:
- Walmore Common SPA
- Walmore Common Ramsar
- Wye Valley and Forest of Dean Bat Sites/ Safleoedd Ystlumod Dyffryn Gwy a Fforest y Ddena SAC
- SO60b
- River Wye/ Afon Gwy SAC
- Severn Estuary Ramsar
- Severn Estuary/Môr Hafren SPA
- Severn Estuary/Môr Hafren SAC
- Wye Valley Woodlands/ Coetiroedd Dyffryn Gwy SAC

200000

Key

Licence block boundary		Special Area of Conservation (SAC)	
10km potential zones of influence		Special Protection Area (SPA)	
1km buffer zone		RAMSAR	
10km buffer zone			

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change
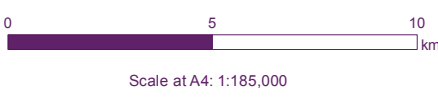
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Figure 1
HRA of Licence Application Block SO61

0   5   10 km

Scale at A4: 1:185,000

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Map labels:
River Wye/ Afon Gwy SAC
Walmore Common SPA
Walmore Common Ramsar
SO61
Wye Valley and Forest of Dean Bat Sites/ Safleoedd Ystlumod Dyffryn Gwy a Fforest y Ddena SAC
Wye Valley Woodlands/ Coetiroedd Dyffryn Gwy SAC
Severn Estuary Ramsar
Severn Estuary/Môr Hafren SPA
Severn Estuary/Môr Hafren SAC

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Key

� red box	Licence block boundary
▢ pink box	10km potential zones of influence
▢ blue box	1km buffer zone
▢ dashed box	10km buffer zone
▢ orange box	Special Area of Conservation (SAC)
▢ green hatched box	Special Protection Area (SPA)
▢ brown box	RAMSAR

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Oil and Gas Licence
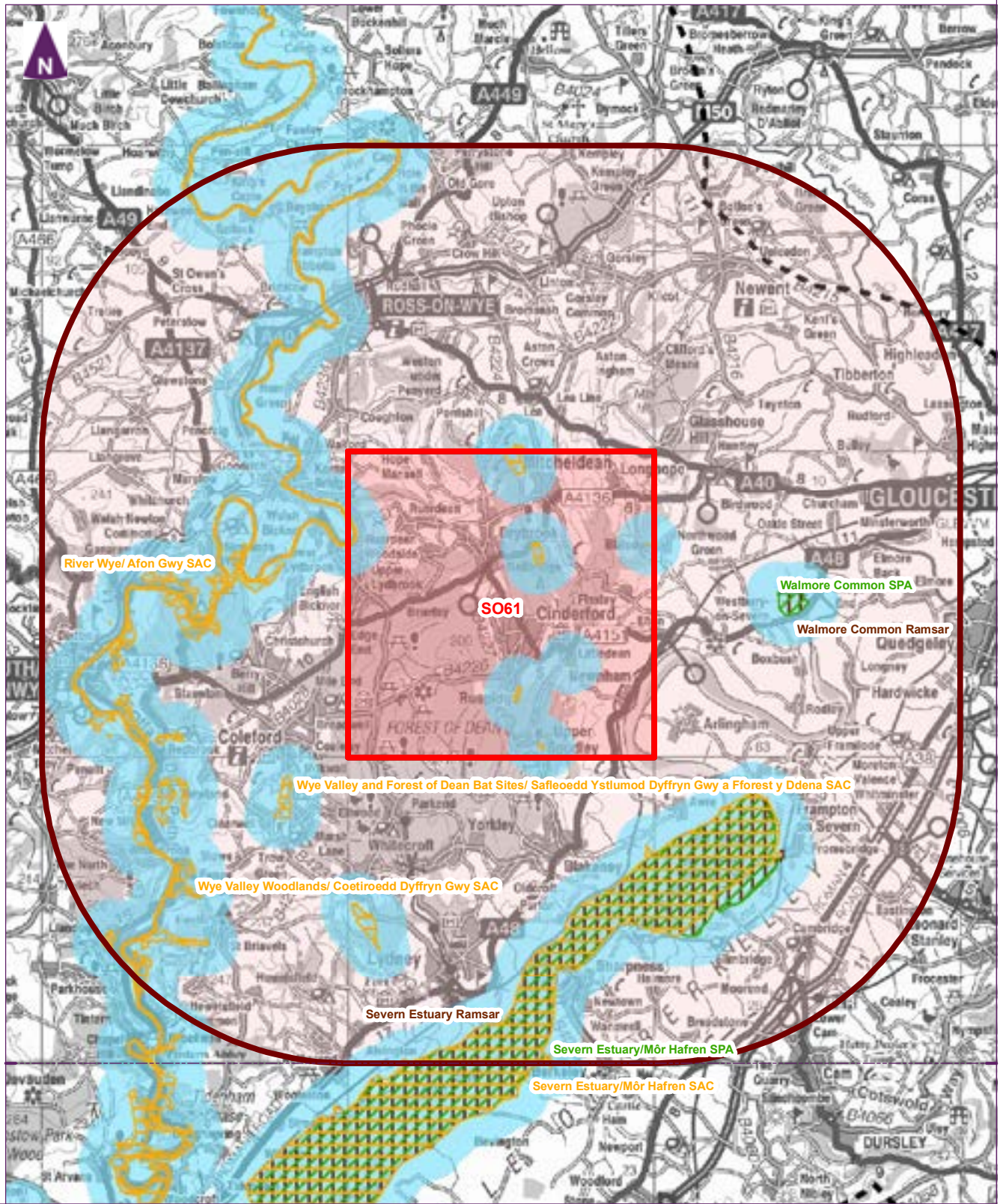Applications
Department of Energy and
Climate Change

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**Figure 1
HRA of Licence Application Block
ST04**

0   5   10
km

Scale at A4: 1:185,000

Key

▨	Licence block boundary	▨	Special Area of Conservation (SAC)
▨	10km potential zones of influence	▨	Special Protection Area (SPA)
▨	1km buffer zone	▨	RAMSAR
▨	10km buffer zone		

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
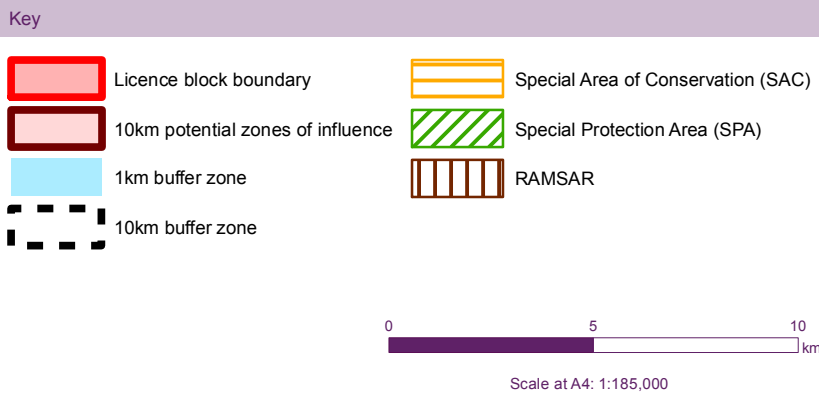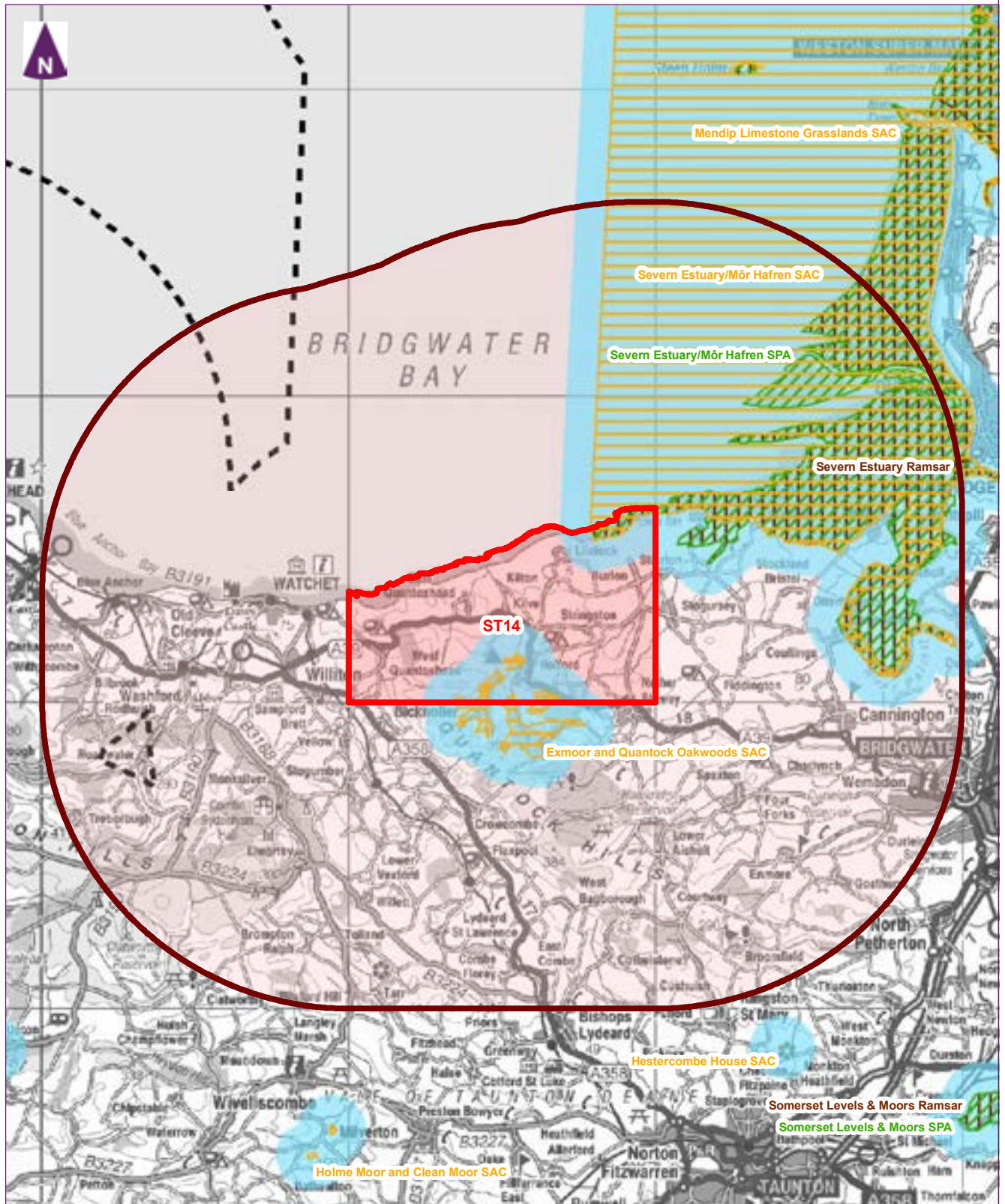Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block ST14

0   5   10
km

Scale at A4: 1:185,000

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Key

▭ (red outline)	Licence block boundary
▭ (dark red outline, pink fill)	10km potential zones of influence
▭ (light blue)	1km buffer zone
⬛ (black dashed outline)	10km buffer zone
▭ (orange lines)	Special Area of Conservation (SAC)
▨ (green hatch)	Special Protection Area (SPA)
▥ (brown vertical lines)	RAMSAR

Map labels:
- North Somerset and Mendip Bats SAC
- Mendip Limestone Grasslands SAC
- Severn Estuary/Môr Hafren SAC
- Severn Estuary/Môr Hafren SPA
- Severn Estuary Ramsar
- BRIDGWATER BAY
- ST24
- Somerset Levels & Moors SPA
- Somerset Levels & Moors Ramsar
- Exmoor and Quantock Oakwoods SAC
- Hestercombe House SAC
- Holme Moor and Clean Moor SAC

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
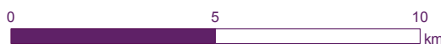Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block ST24

0 — 5 — 10 km
Scale at A4: 1:185,000

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Key

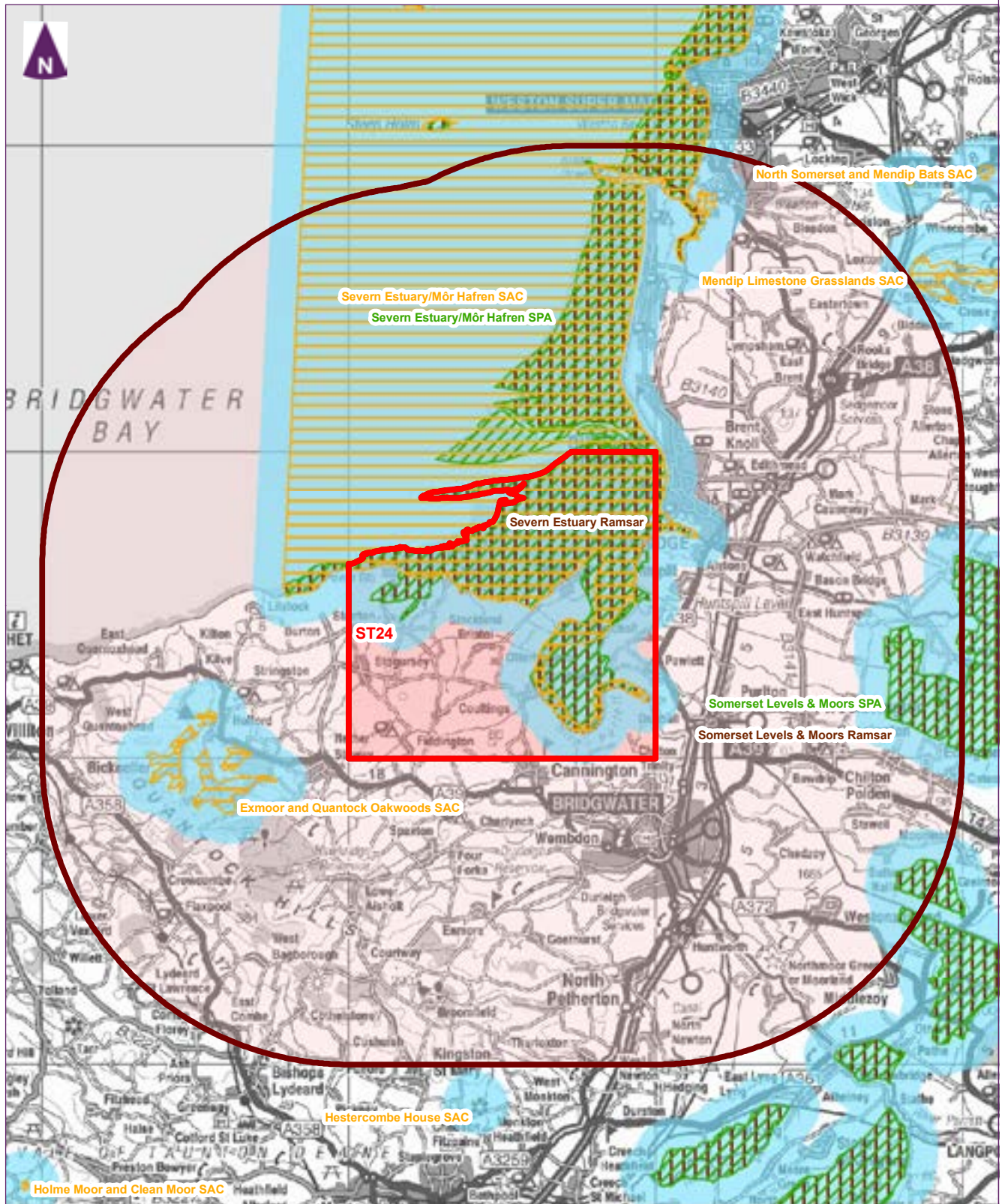|			
	Licence block boundary		Special Area of Conservation (SAC)
	10km potential zones of influence		Special Protection Area (SPA)
	1km buffer zone		RAMSAR
	10km buffer zone		

Severn Estuary/Môr Hafren SAC

North Somerset and Mendip Bats SAC

Mendip Limestone Grasslands SAC

Severn Estuary/Môr Hafren SPA

ST25

Severn Estuary Ramsar

Somerset Levels & Moors SPA

Somerset Levels & Moors Ramsar

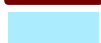Exmoor and Quantock Oakwoods SAC

0   5   10
km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block ST25

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Key

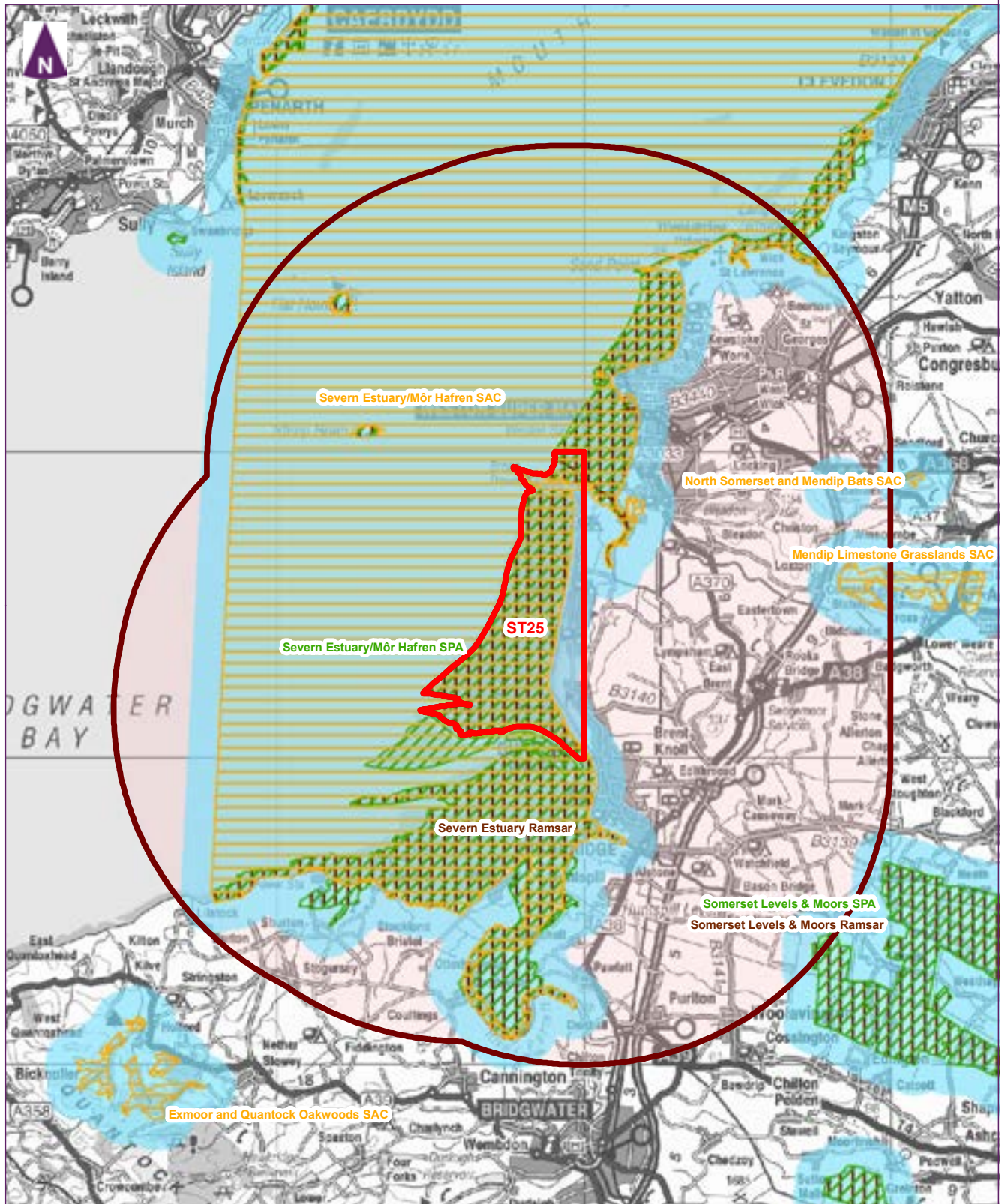| | Licence block boundary | | Special Area of Conservation (SAC) |
	10km potential zones of influence		Special Protection Area (SPA)
	1km buffer zone		RAMSAR
	10km buffer zone		

Map labels:

Mendip Limestone Grasslands SAC

Mendip Woodlands SAC

North Somerset and Mendip Bats SAC

Severn Estuary/Môr Hafren SAC

Severn Estuary/Môr Hafren SPA

Severn Estuary Ramsar

ST34

Somerset Levels & Moors Ramsar

Somerset Levels & Moors SPA

Hestercombe House SAC

0   5   10 km

Scale at A4: 1:185,000
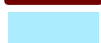
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Figure 1
HRA of Licence Application Block ST34

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Key

Licence block boundary		Special Area of Conservation (SAC)	
10km potential zones of influence		Special Protection Area (SPA)	
1km buffer zone		RAMSAR	
10km buffer zone			

Severn Estuary/Môr Hafren SAC

Severn Estuary/Môr Hafren SPA

Severn Estuary Ramsar

ST35

Mendip Limestone Grasslands SAC

Mendip Woodlands SAC

North Somerset and Mendip Bats SAC

Somerset Levels & Moors SPA

Somerset Levels & Moors Ramsar

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Figure 1
HRA of Licence Application Block ST35

0   5   10
km

Scale at A4: 1:185,000

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

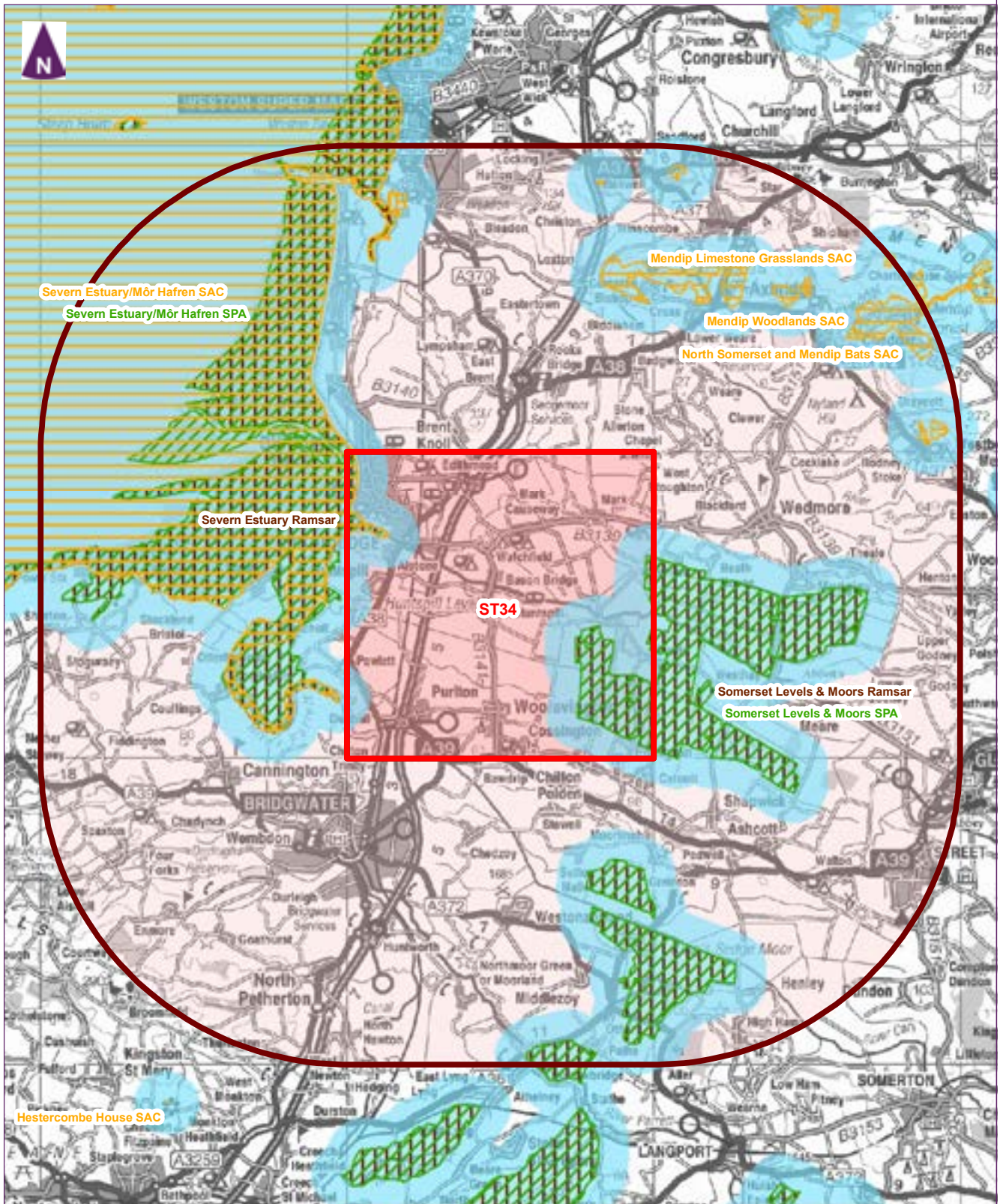Scale at A4: 1:185,000

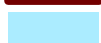0   5   10 km

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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**Figure 1
HRA of Licence Application Block ST36**

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Map labels:
River Usk/ Afon Wysg SAC
Severn Estuary Ramsar
Severn Estuary/Môr Hafren SAC
ST36
Severn Estuary/Môr Hafren SPA
Mendip Limestone Grasslands SAC
Mendip Woodlands SAC
North Somerset and Mendip Bats SAC
Somerset Levels & Moors SPA
Somerset Levels & Moors Ramsar

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Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Special Protection Area (SPA)

Habitat Regulations Assessment
(HRA) of 14th Round Onshore
Oil and Gas Licence
Applications
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wheeler

Figure 1
HRA of Licence Application Block
ST84

0   5   10
km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

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Map labels:
Bath and Bradford-on-Avon Bats SAC
Mells Valley SAC
Mendip Woodlands SAC
Salisbury Plain SAC
Salisbury Plain SPA
River Avon SAC
Chilmark Quarries SAC
Prescombe Down SAC
ST84

Figure 1
HRA of Licence Application Block
ST85

Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Special Protection Area (SPA)

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block ST94

Key

(red outline)	Licence block boundary
(dark red outline)	10km potential zones of influence
(blue)	1km buffer zone
(dashed black)	10km buffer zone
(orange outline)	Special Area of Conservation (SAC)
(green hatch)	Special Protection Area (SPA)

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

amec foster wheeler
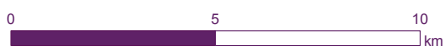
Scale at A4: 1:185,000

0   5   10 km

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Key

(red box)	Licence block boundary
(pink box)	10km potential zones of influence
(light blue)	1km buffer zone
(dashed line)	10km buffer zone
(orange box)	Special Area of Conservation (SAC)
(green hatched)	Special Protection Area (SPA)

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

Figure 1
HRA of Licence Application Block ST95

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Scale at A4: 1:185,000

0   5   10 km

Map labels:
Bath and Bradford-on-Avon Bats SAC
Pewsey Downs SAC
ST95
Salisbury Plain SPA
Salisbury Plain SAC
River Avon SAC

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)

Scale at A4: 1:185,000

0   5   10
km

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Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SU34b

Key

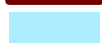|	
Licence block boundary	
10km potential zones of influence	
1km buffer zone	
10km buffer zone	
Special Area of Conservation (SAC)	

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SU44

Scale at A4: 1:185,000

0   5   10 km

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amec foster wheeler

Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

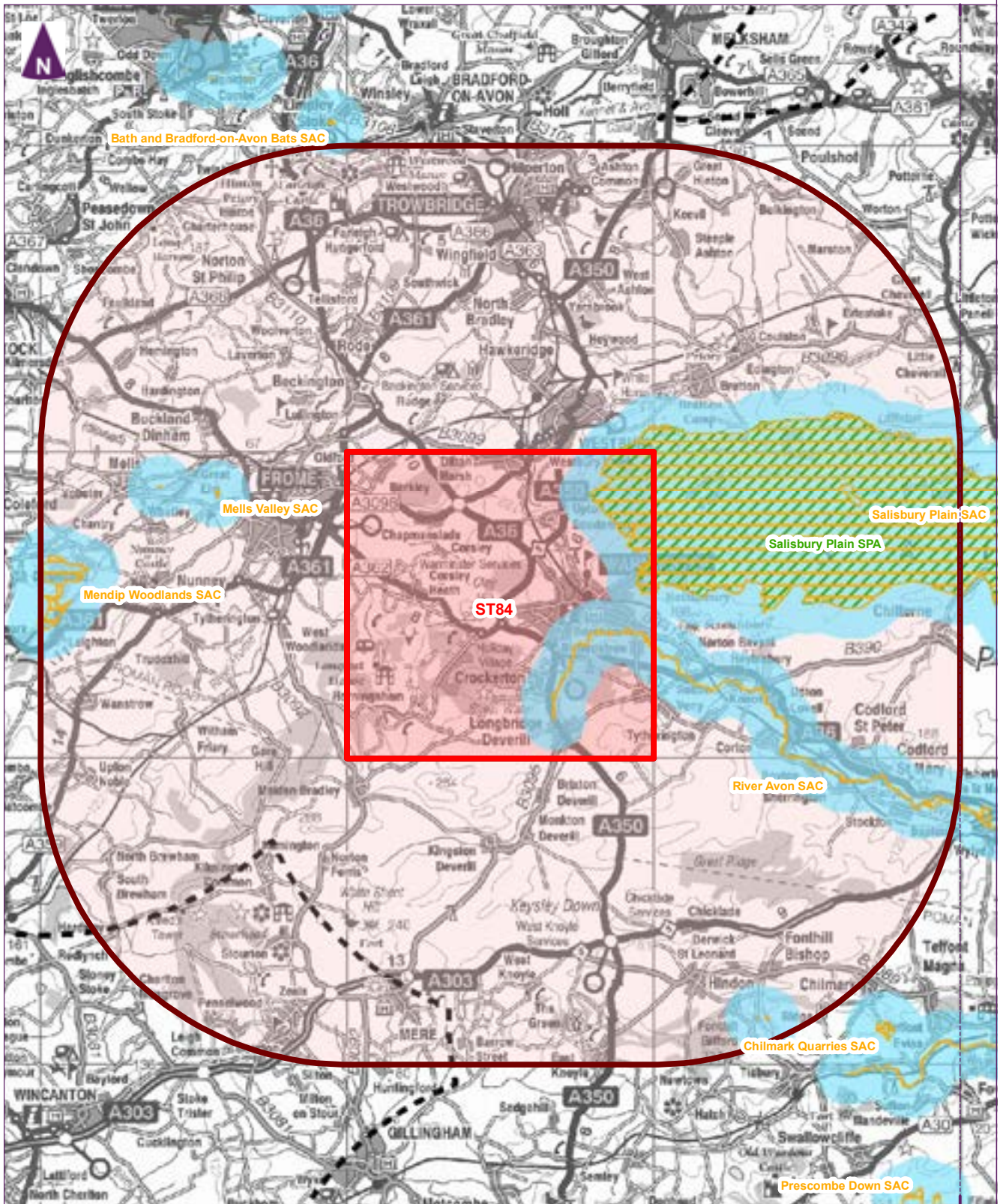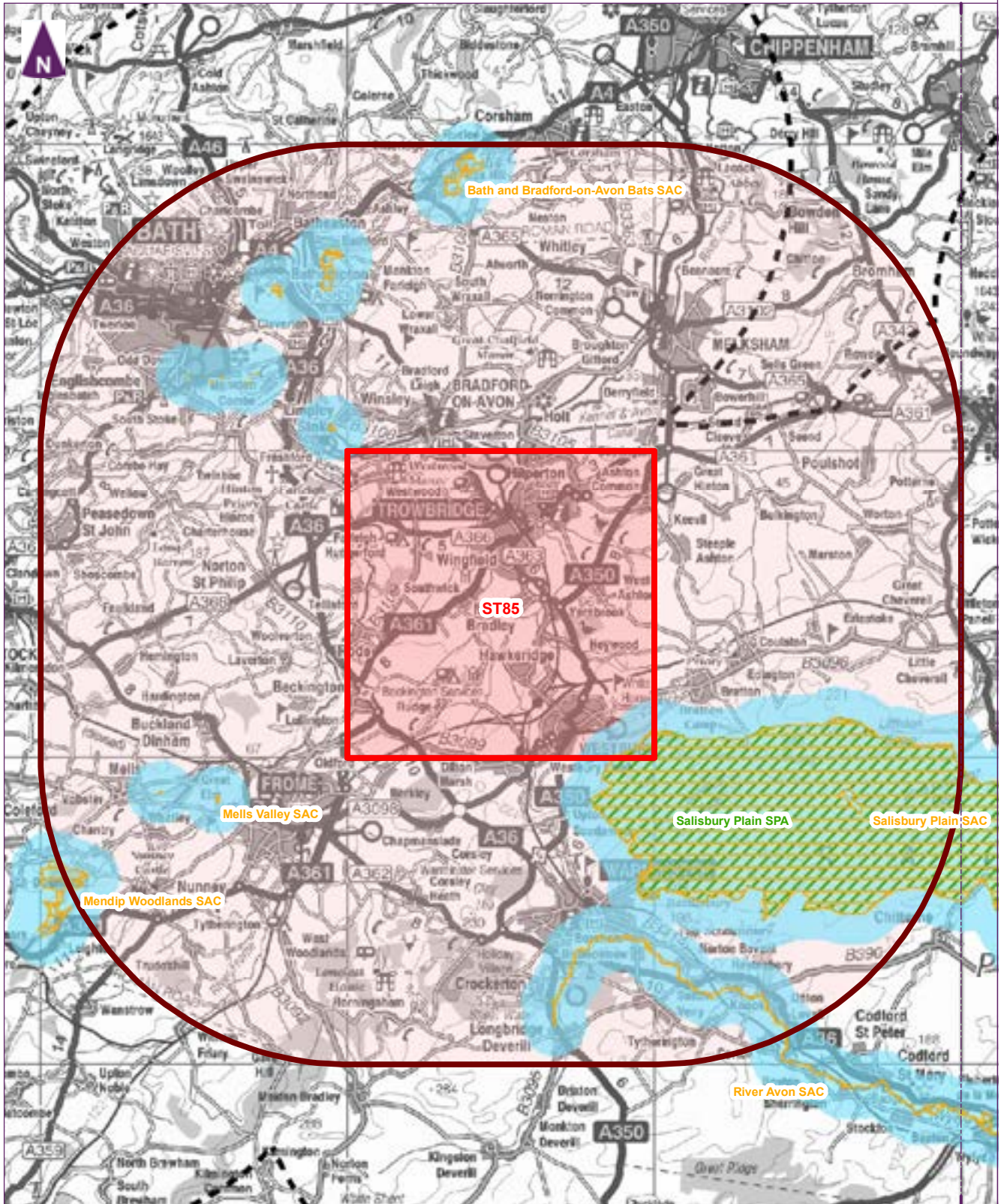Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SU81c

Scale at A4: 1:185,000

0   5   10 km

November 2015   33917-Lea46c.mxd BROWJ

Map labels: Woolmer Forest SAC; Wealden Heaths Phase II SPA; HASLEMERE; East Hampshire Hangers SAC; Ebernoe Common SAC; PETERSFIELD; MIDHURST; Butser Hill SAC; Rook Clift SAC; SU81c; Singleton and Cocking Tunnels SAC; Duncton to Bignor Escarpment SAC; Kingley Vale SAC; HAVANT; CHICHESTER; Solent Maritime SAC; Chichester and Langstone Harbour Ramsar; Chichester and Langstone Harbours SPA; Pagham Harbour SPA; Pagham Harbour Ramsar; BOGNOR REGIS

Key

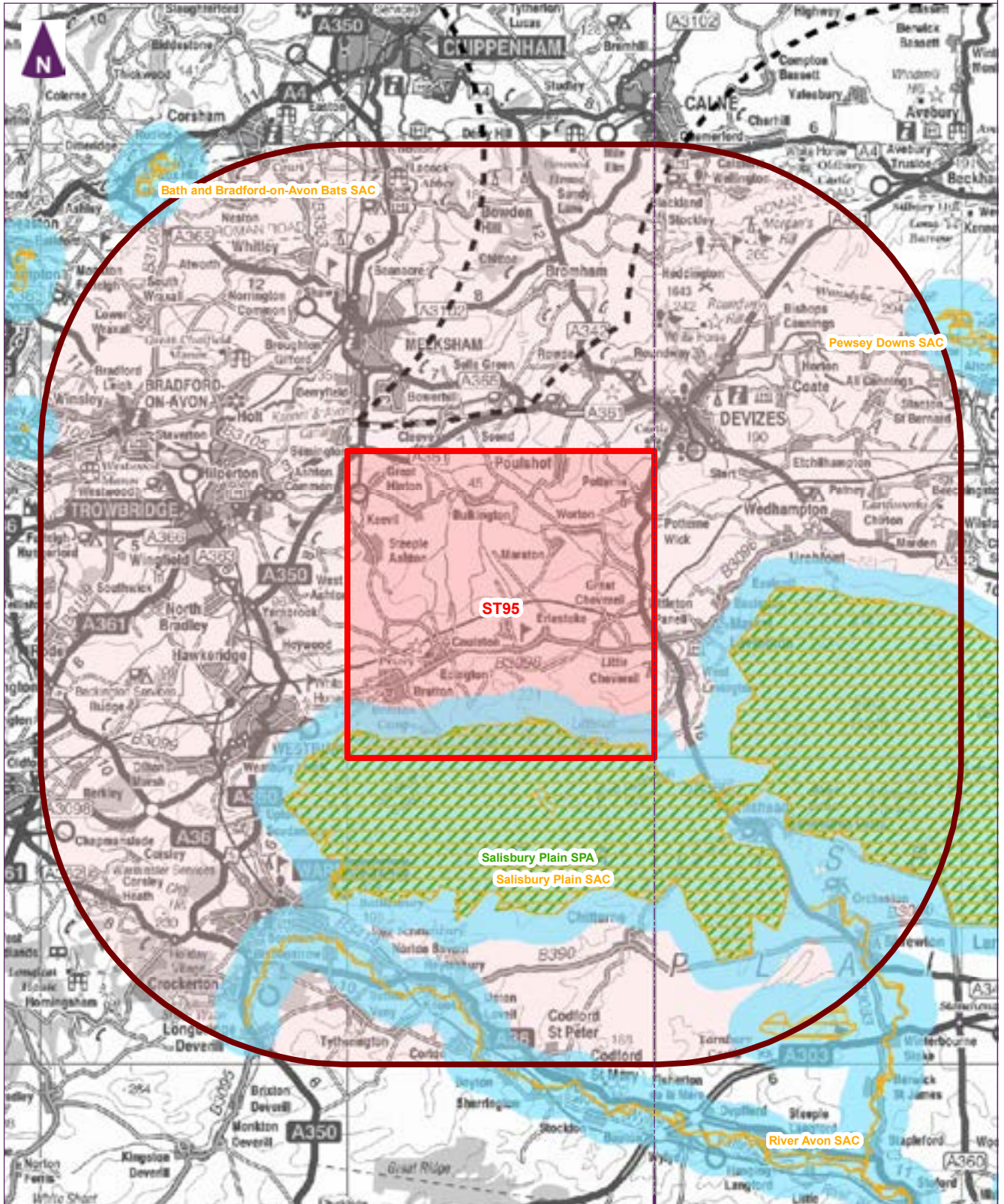|	
�(red box)	Licence block boundary
▢(pink)	10km potential zones of influence
▢(blue)	1km buffer zone
- - -	10km buffer zone
▢(orange)	Special Area of Conservation (SAC)
▨(green hatch)	Special Protection Area (SPA)
▥(brown)	RAMSAR

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

Figure 1
HRA of Licence Application Block SU90a

Scale at A4: 1:185,000

0   5   10 km

November 2015   33917-Lea46c.mxd BROWJ

Map labels:

Fontmell and Melbury Downs SAC

Holnest SAC

Rooksmoor SAC

West Dorset Alder Woods SAC

Cerne and Sydling Downs SAC

SY79a

Dorset Heaths (Purbeck and Wareham) and Studland Dunes SAC

Dorset Heaths SAC

Dorset Heathlands Ramsar

Dorset Heathlands SPA

Chesil Beach & the Fleet SPA

Chesil and the Fleet SAC

Chesil Beach & the Fleet Ramsar

Crookhill Brick Pit SAC

Isle of Portland to Studland Cliffs SAC

Studland to Portland SAC

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

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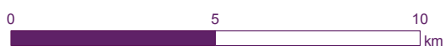
Figure 1
HRA of Licence Application Block SY79a

0   5   10 km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
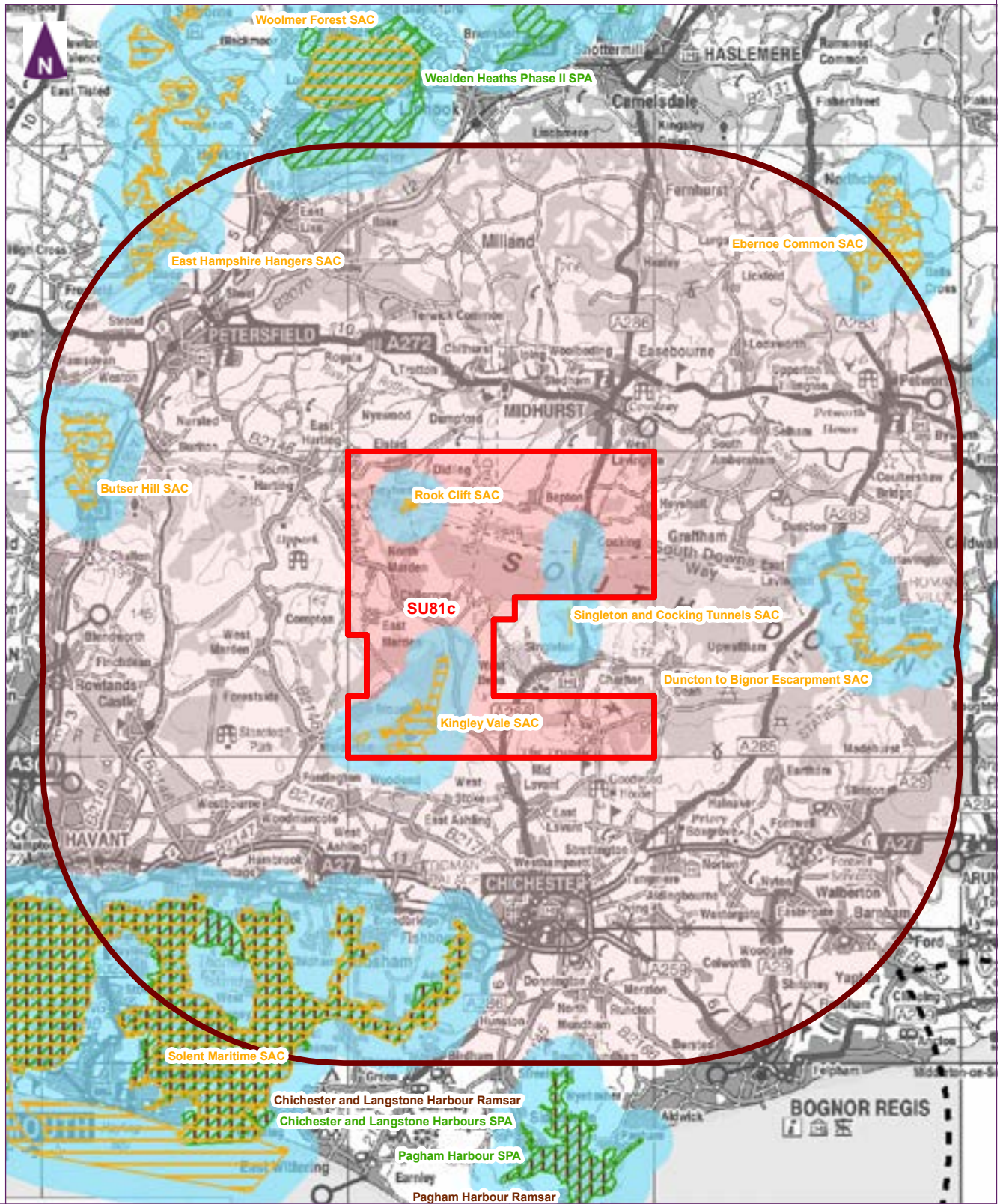- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

Figure 1
HRA of Licence Application Block SY88d

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0   5   10
km
Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Map labels:
- Poole Harbour SPA
- Poole Harbour Ramsar
- Dorset Heathlands Ramsar
- SY88d
- Dorset Heaths SAC
- Dorset Heathlands SPA
- Dorset Heaths (Purbeck and Wareham) and Studland Dunes SAC
- Isle of Portland to Studland Cliffs SAC
- St Albans Head to Durlston Head SAC
- Studland to Portland SAC

400000

Key

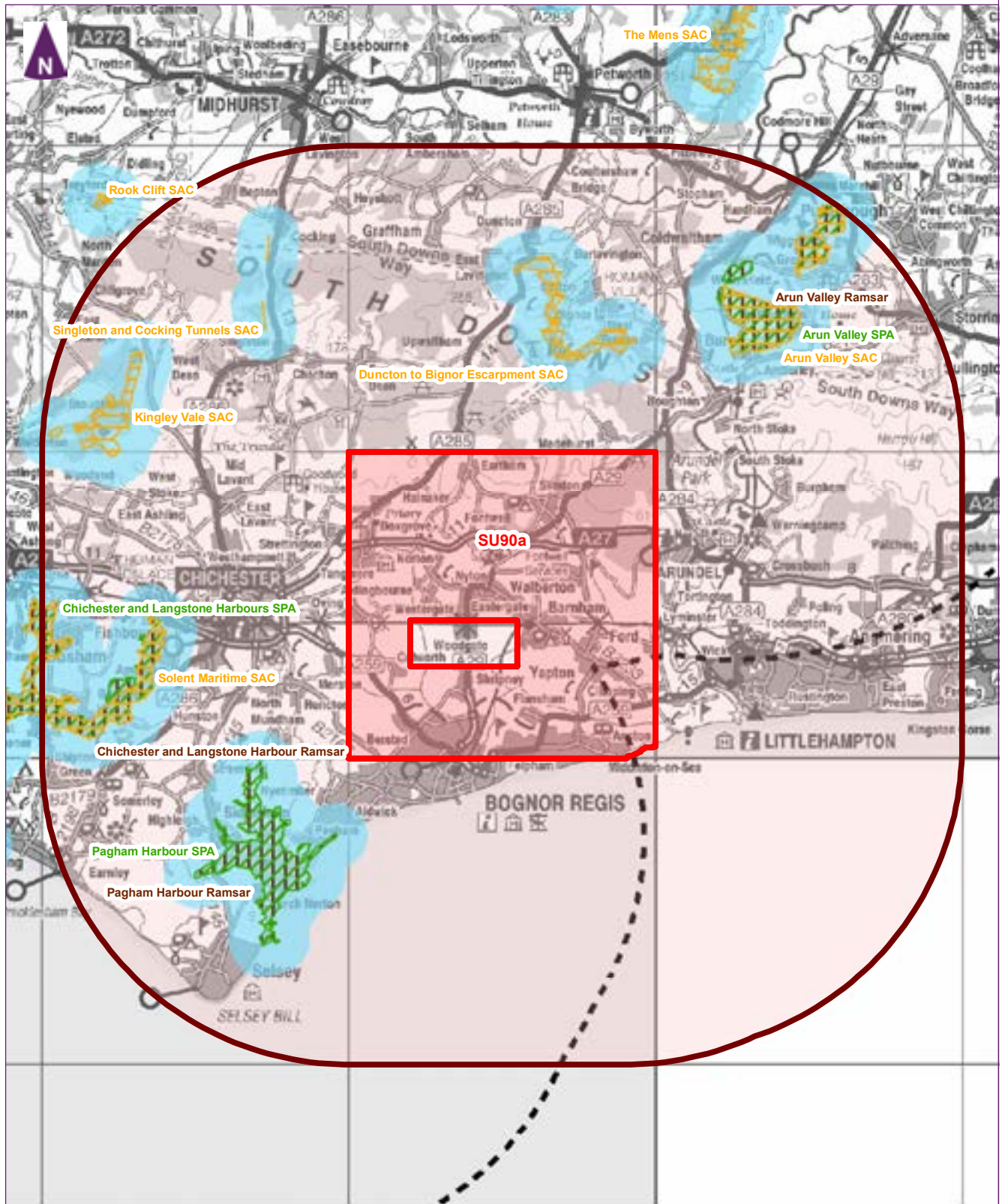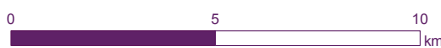|	
Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

Rooksmoor SAC

BLANDFORD FORUM

SY89b

Poole Harbour SPA

Poole Harbour Ramsar

Dorset Heaths (Purbeck and Wareham) and Studland Dunes SAC

Dorset Heaths SAC

Dorset Heathlands Ramsar

Dorset Heathlands SPA

Isle of Portland to Studland Cliffs SAC

St Albans Head to Durlston Head SAC

Studland to Portland SAC

WEYMOUTH

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

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wheeler
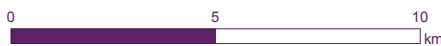
Figure 1
HRA of Licence Application Block SY89b

0   5   10
km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

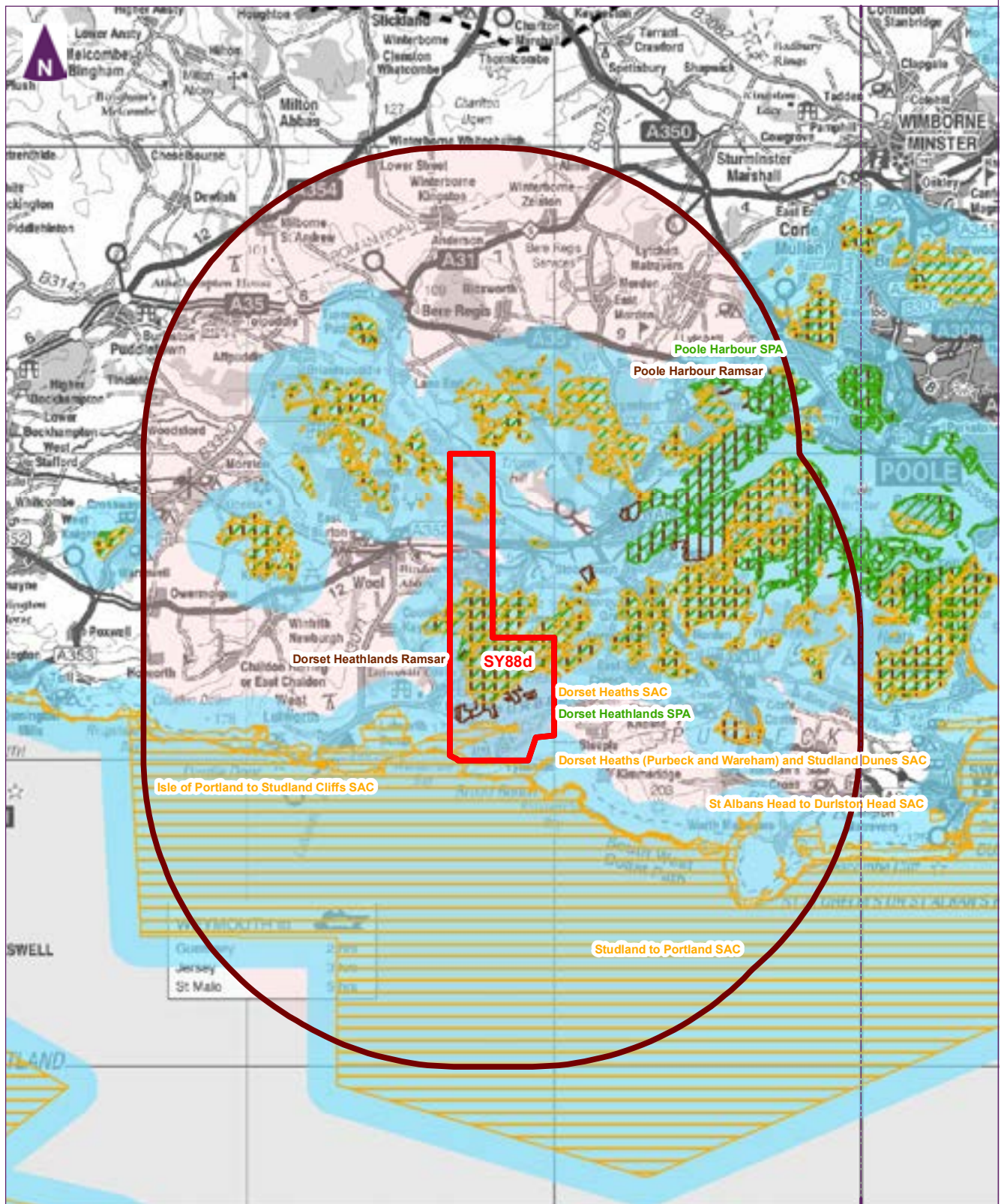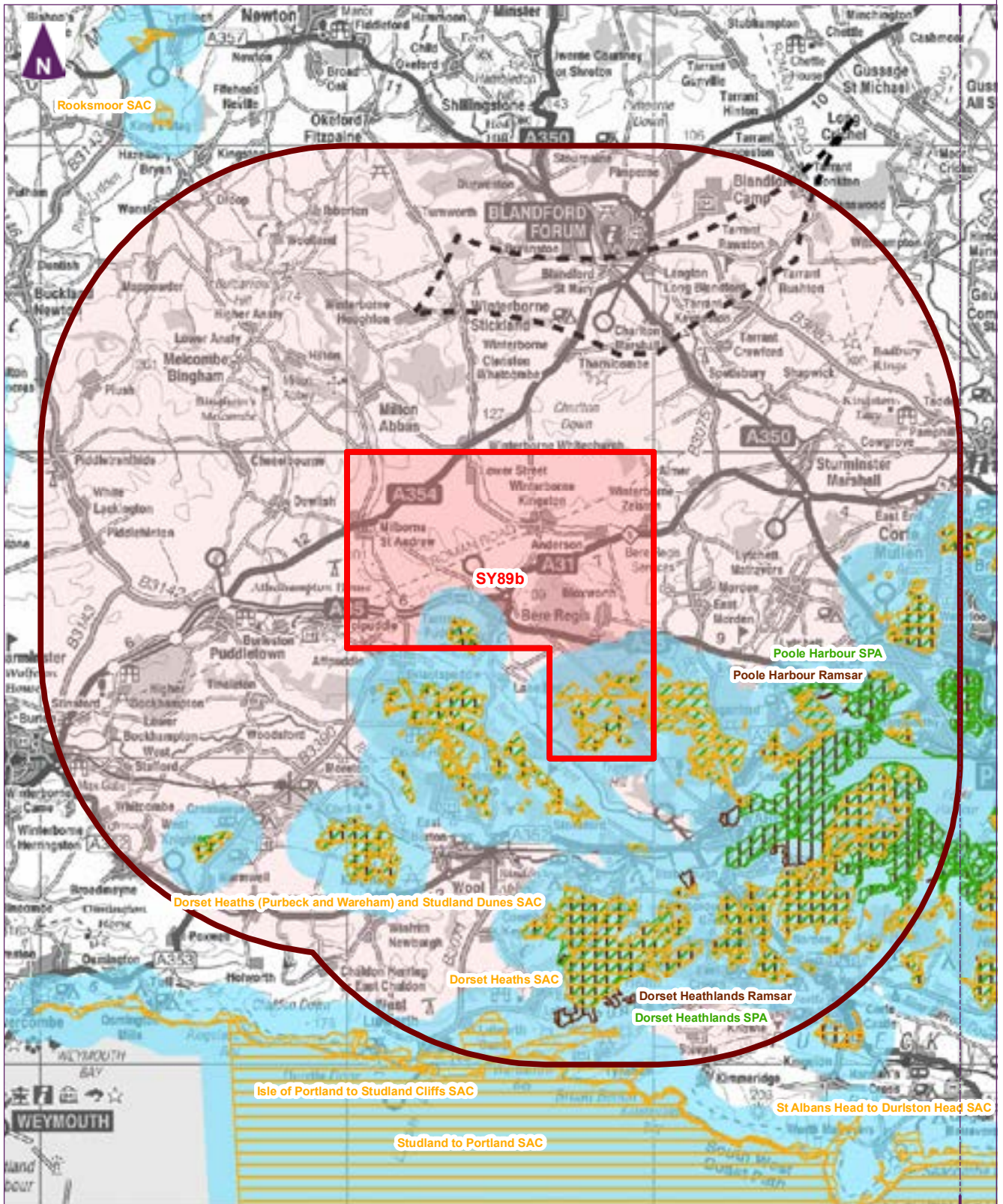Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
HRA of Licence Application Block SY97b

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Scale at A4: 1:185,000

0   5   10 km

Labels on map:
- Poole Harbour SPA
- Dorset Heaths (Purbeck and Wareham) and Studland Dunes SAC
- Poole Harbour Ramsar
- Dorset Heaths SAC
- Dorset Heathlands Ramsar
- Dorset Heathlands SPA
- Isle of Portland to Studland Cliffs SAC
- SY97b
- St Albans Head to Durlston Head SAC
- Studland to Portland SAC

400000

Poole Harbour SPA
Poole Harbour Ramsar

Dorset Heaths SAC
Dorset Heathlands Ramsar

SY98c
Dorset Heathlands SPA

Dorset Heaths (Purbeck and Wareham) and Studland Dunes SAC

Isle of Portland to Studland Cliffs SAC

St Albans Head to Durlston Head SAC

Studland to Portland SAC

Key

Licence block boundary		Special Area of Conservation (SAC)	
10km potential zones of influence		Special Protection Area (SPA)	
1km buffer zone		RAMSAR	
10km buffer zone			

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Figure 1
HRA of Licence Application Block SY98c

0   5   10
km
Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

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Figure 1
HRA of Licence Application Block SY99

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
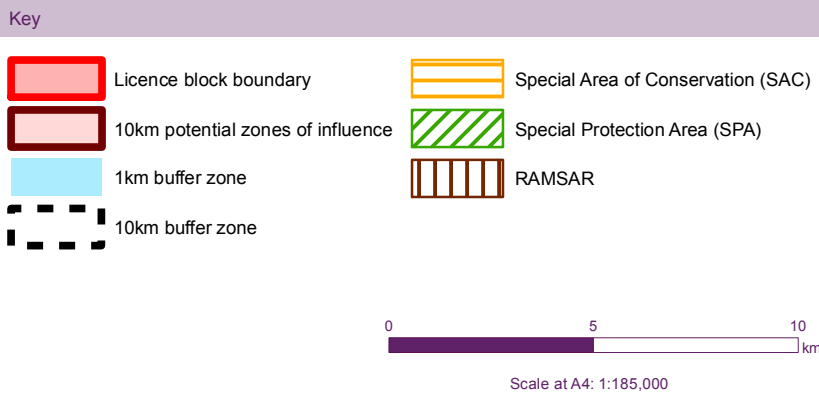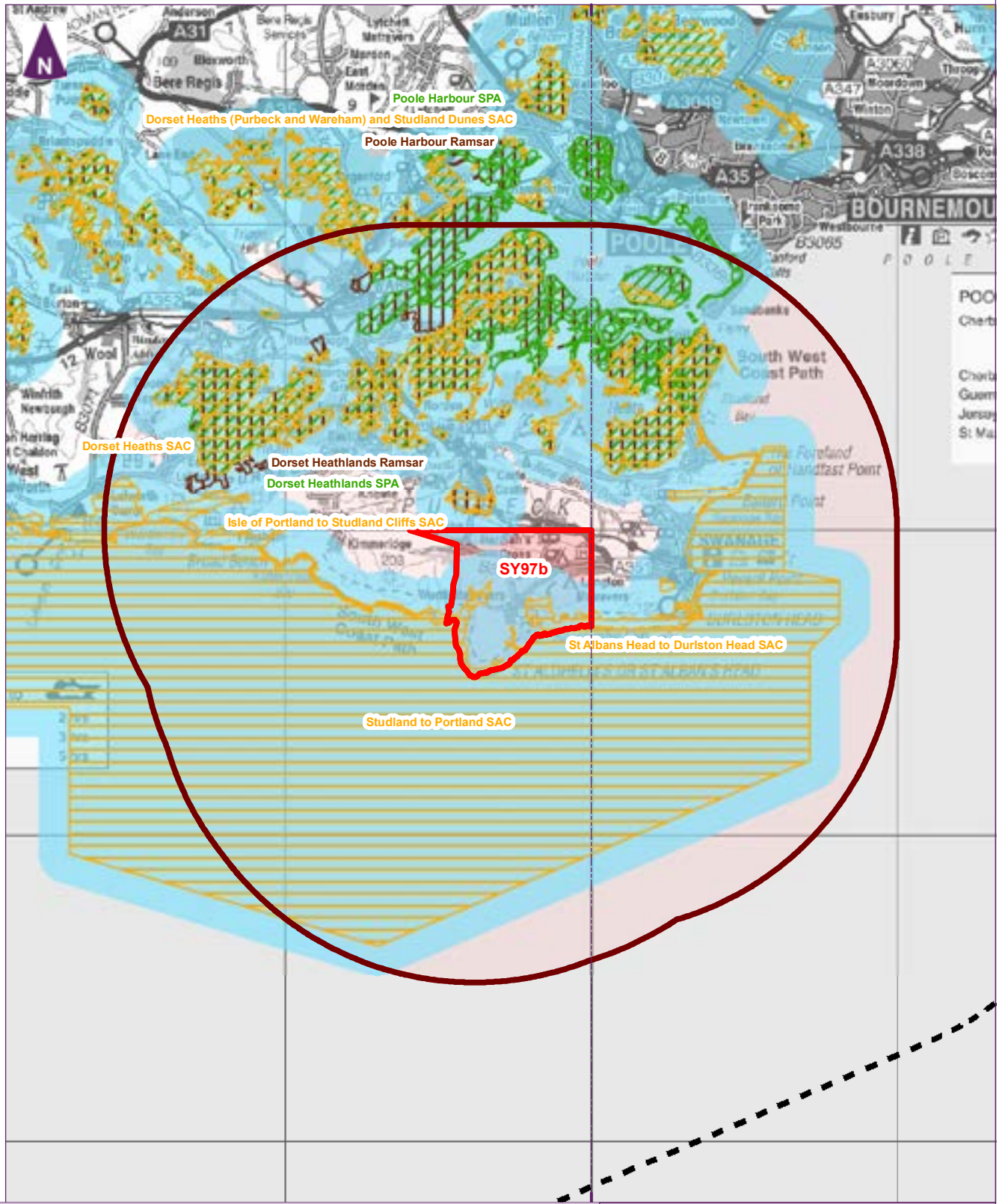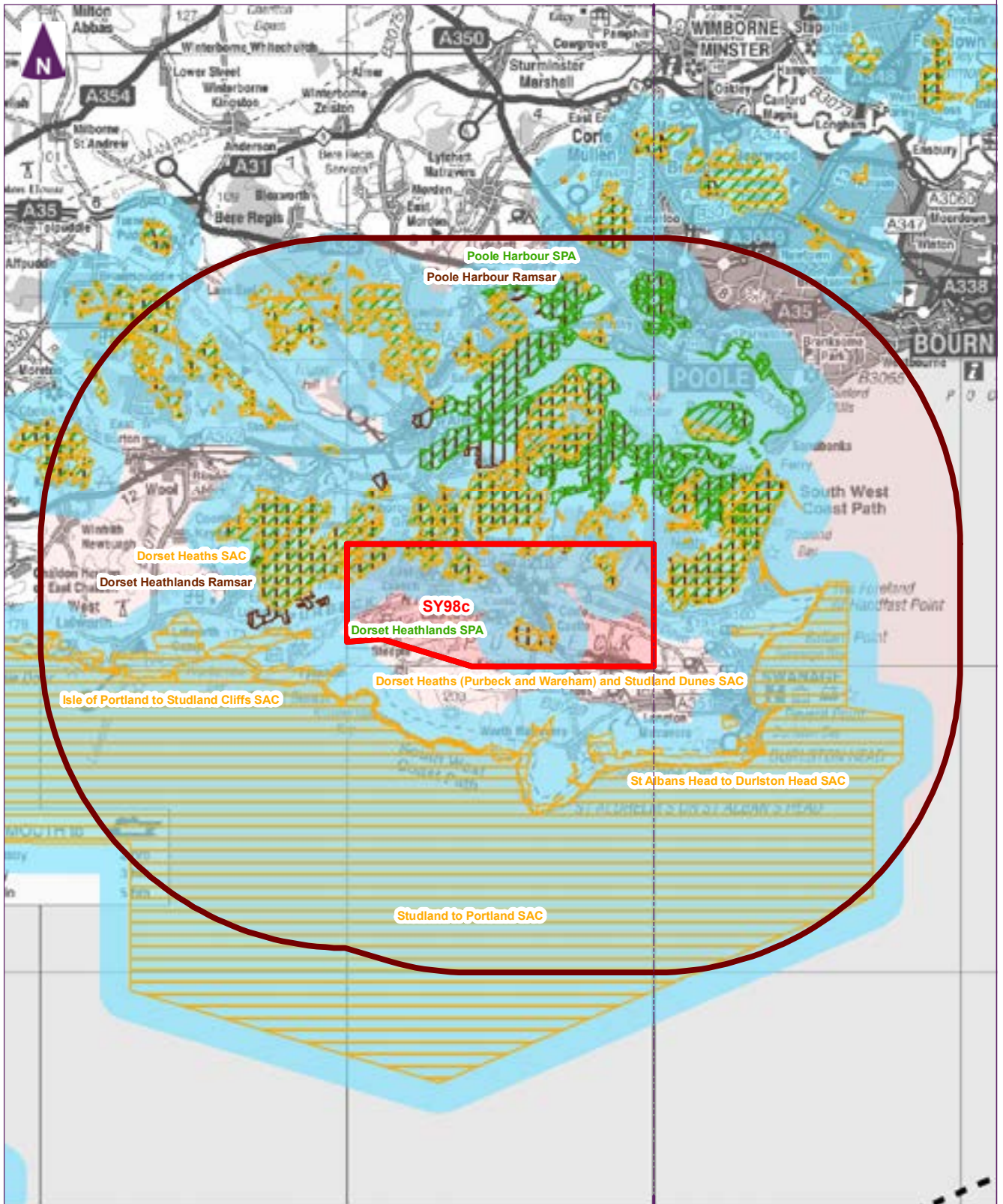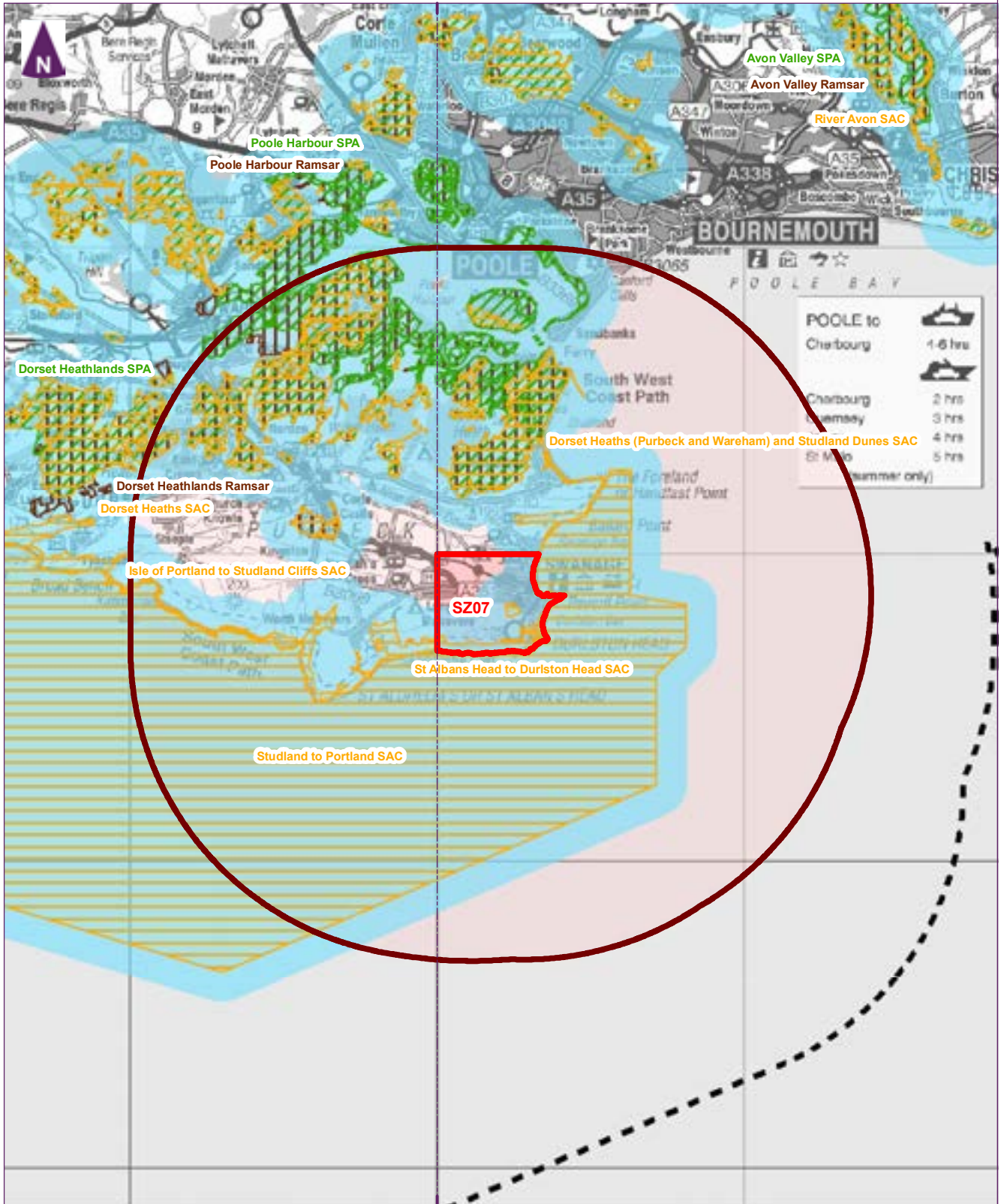- Special Protection Area (SPA)
- RAMSAR

SY99

Poole Harbour SPA
Poole Harbour Ramsar

Dorset Heaths SAC
Dorset Heathlands Ramsar
Dorset Heathlands SPA
Dorset Heaths (Purbeck and Wareham) and Studland Dunes SAC
Isle of Portland to Studland Cliffs SAC
Studland to Portland SAC
St Albans Head to Durlston Head SAC

400000

0   5   10
km
Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block SZ07

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
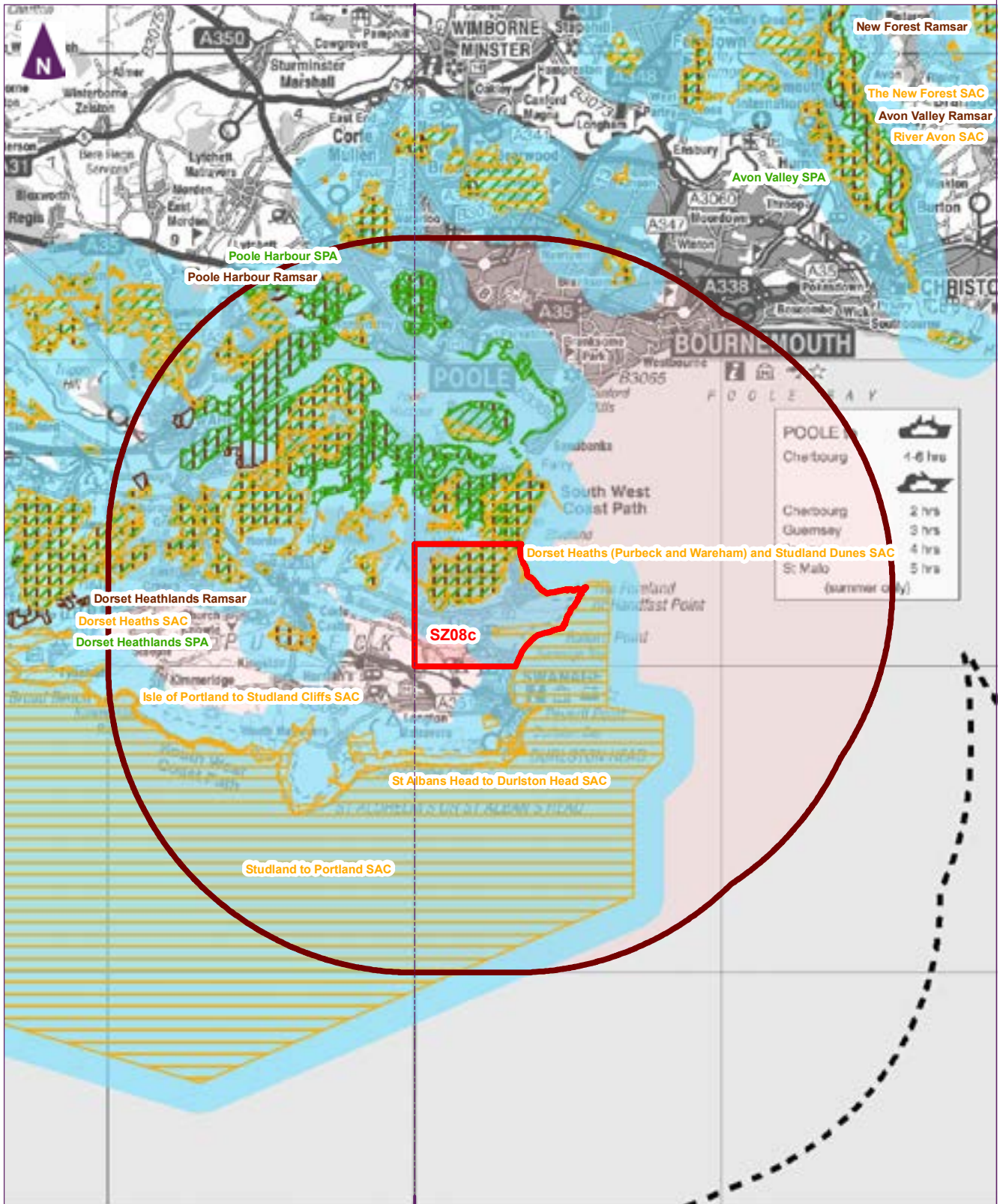- 10km buffer zone
- Special Area of Conservation (SAC)
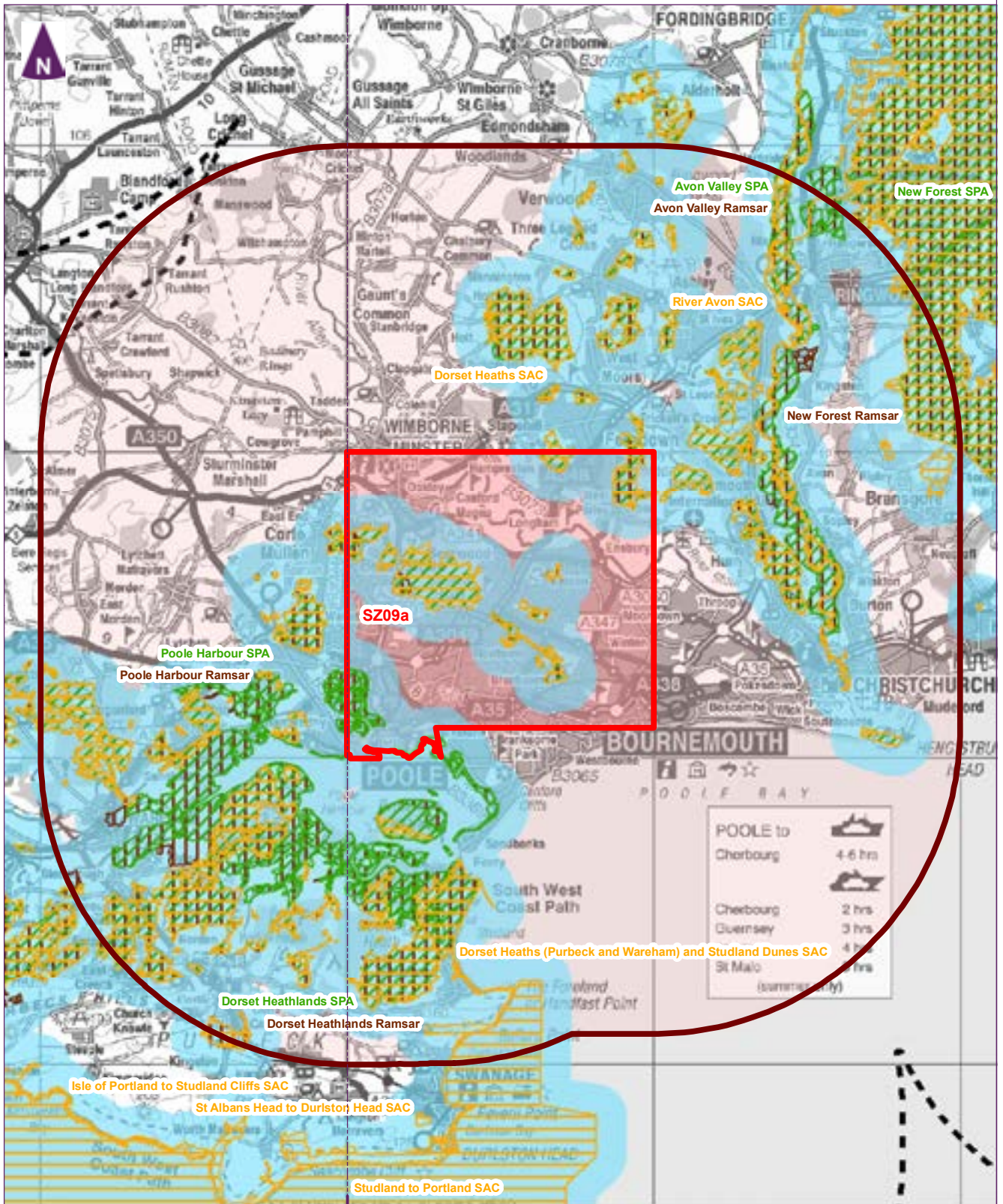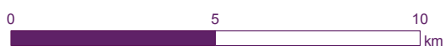- Special Protection Area (SPA)
- RAMSAR

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Scale at A4: 1:185,000

0   5   10 km

Labels on map:
- Avon Valley SPA
- Avon Valley Ramsar
- River Avon SAC
- Poole Harbour SPA
- Poole Harbour Ramsar
- Dorset Heathlands SPA
- Dorset Heaths (Purbeck and Wareham) and Studland Dunes SAC
- Dorset Heathlands Ramsar
- Dorset Heaths SAC
- Isle of Portland to Studland Cliffs SAC
- St Albans Head to Durlston Head SAC
- Studland to Portland SAC
- SZ07
- BOURNEMOUTH
- POOLE
- POOLE BAY

POOLE to Cherbourg 1-6 hrs
Cherbourg 2 hrs
Guernsey 3 hrs
St Malo 4 hrs
5 hrs (summer only)

400000

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400000

New Forest Ramsar
The New Forest SAC
Avon Valley Ramsar
River Avon SAC
Avon Valley SPA

WIMBORNE MINSTER

Poole Harbour SPA
Poole Harbour Ramsar

BOURNEMOUTH

POOLE

POOLE BAY

South West Coast Path

Dorset Heaths (Purbeck and Wareham) and Studland Dunes SAC

SZ08c

Dorset Heathlands Ramsar
Dorset Heaths SAC
Dorset Heathlands SPA

Isle of Portland to Studland Cliffs SAC

St Albans Head to Durlston Head SAC

Studland to Portland SAC

POOLE
Cherbourg   4-6 hrs
Cherbourg   2 hrs
Guernsey   3 hrs
St Malo   4 hrs
                   5 hrs
(summer only)

Key

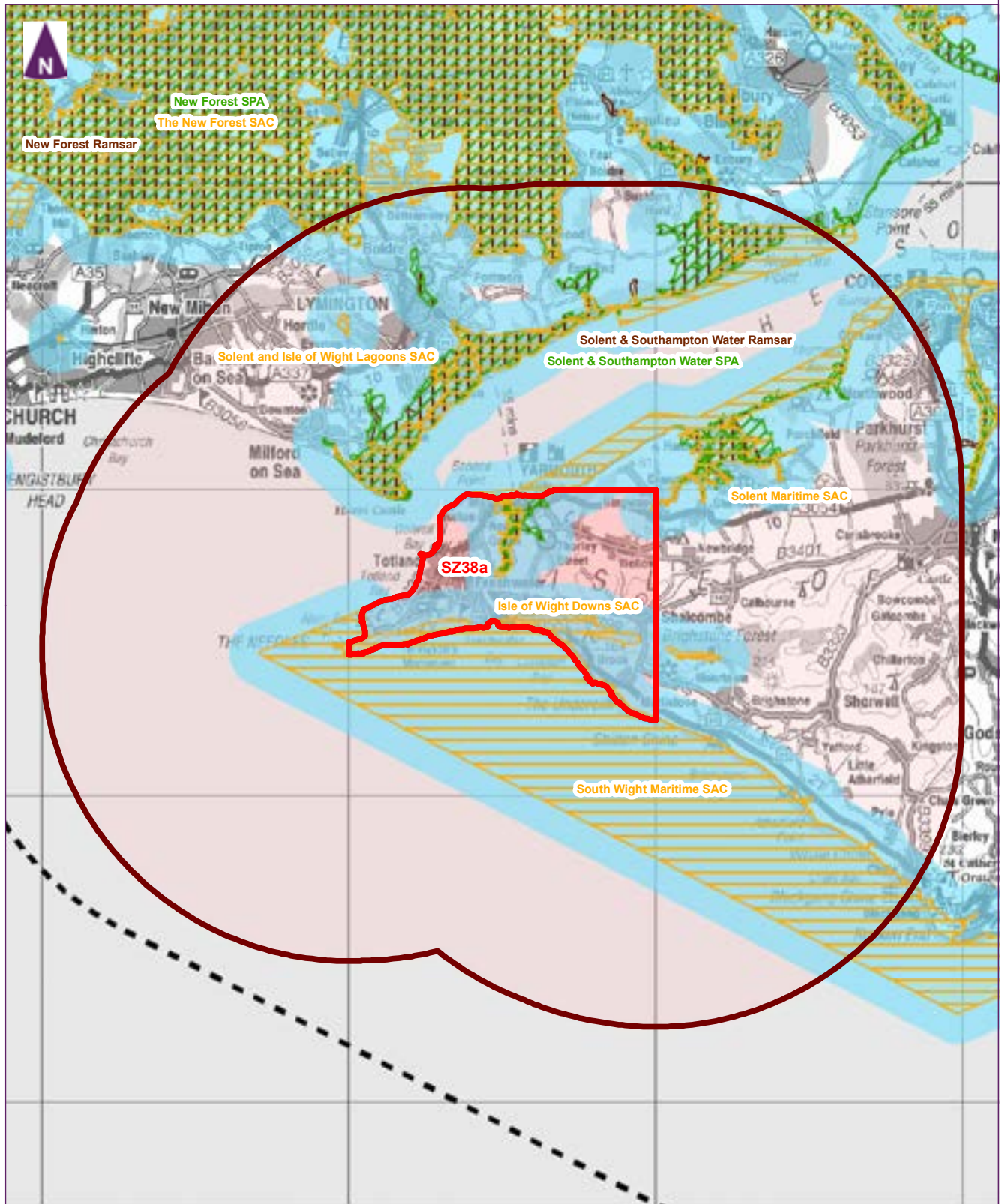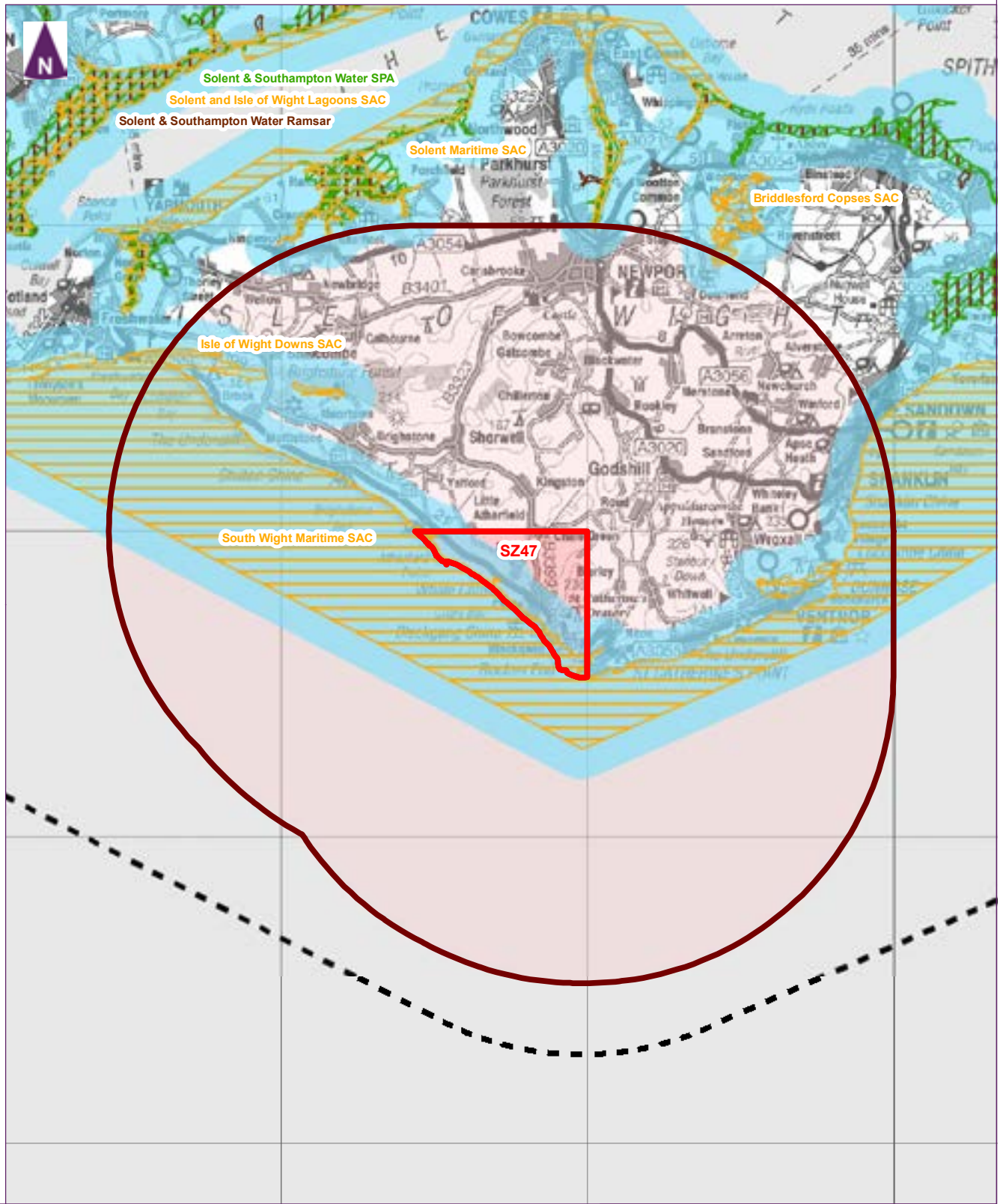| Symbol	Description
Licence block boundary	
10km potential zones of influence	
1km buffer zone	
10km buffer zone	
Special Area of Conservation (SAC)	
Special Protection Area (SPA)	
RAMSAR	

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SZ08c

0   5   10
km
Scale at A4: 1:185,000

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

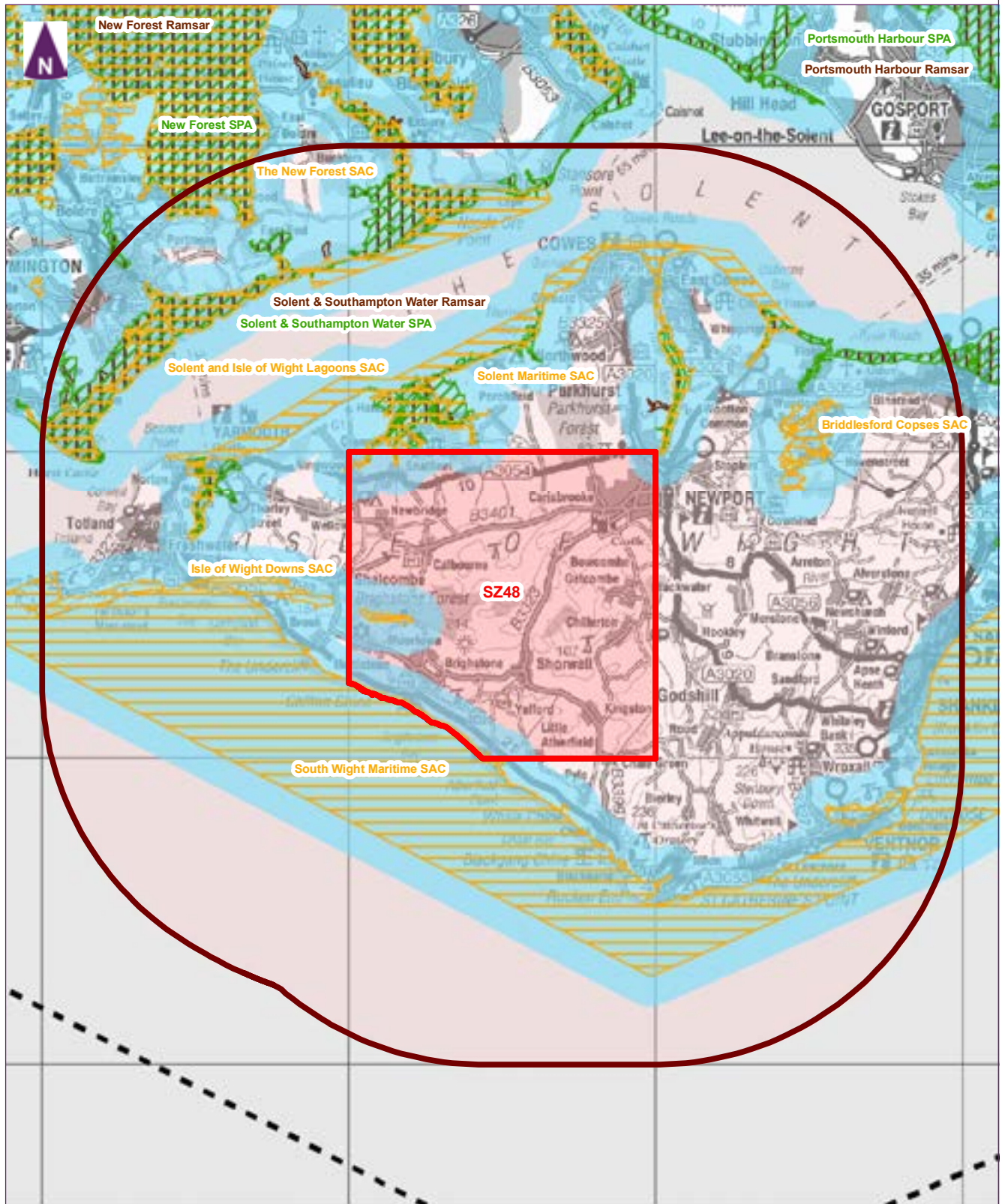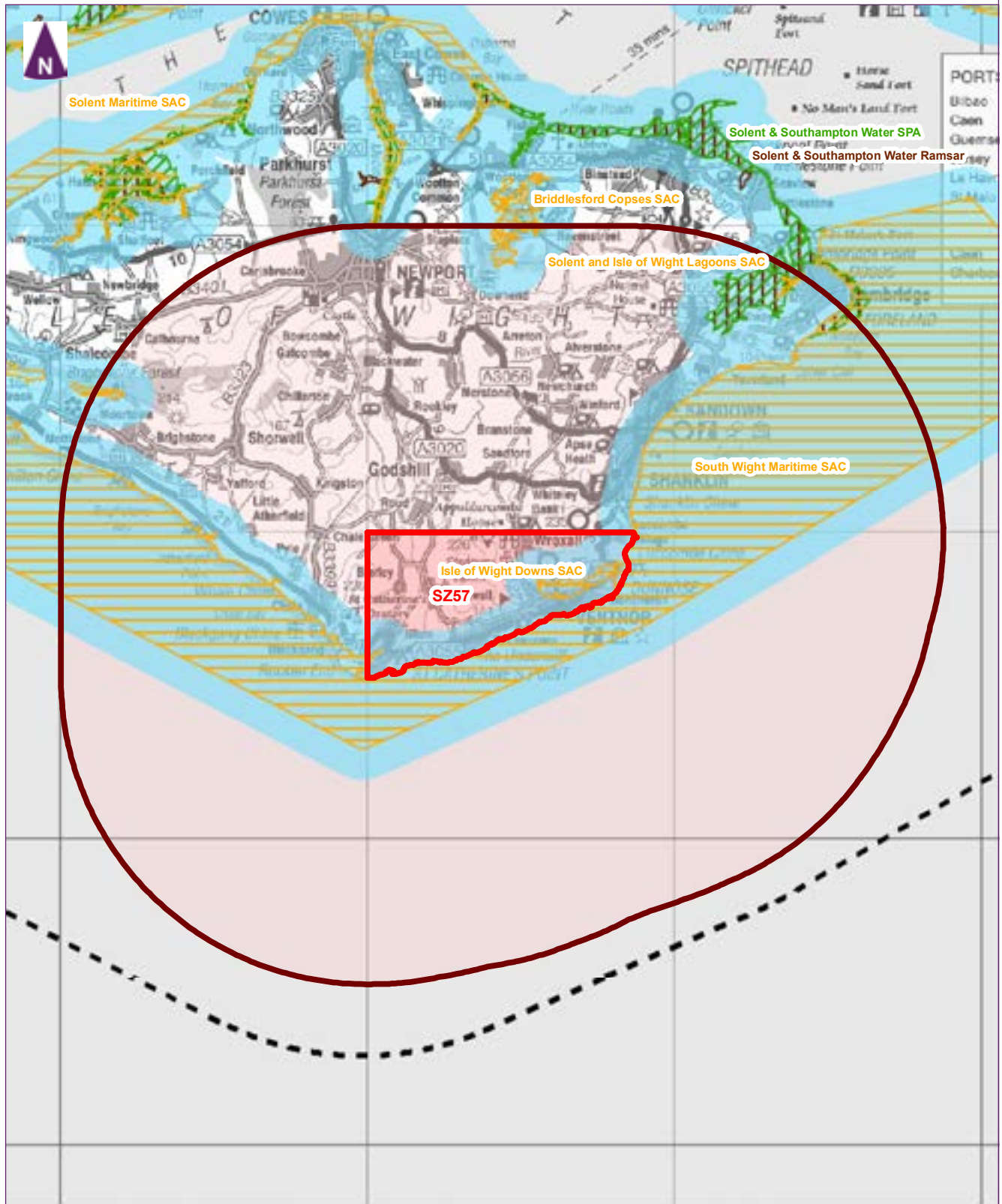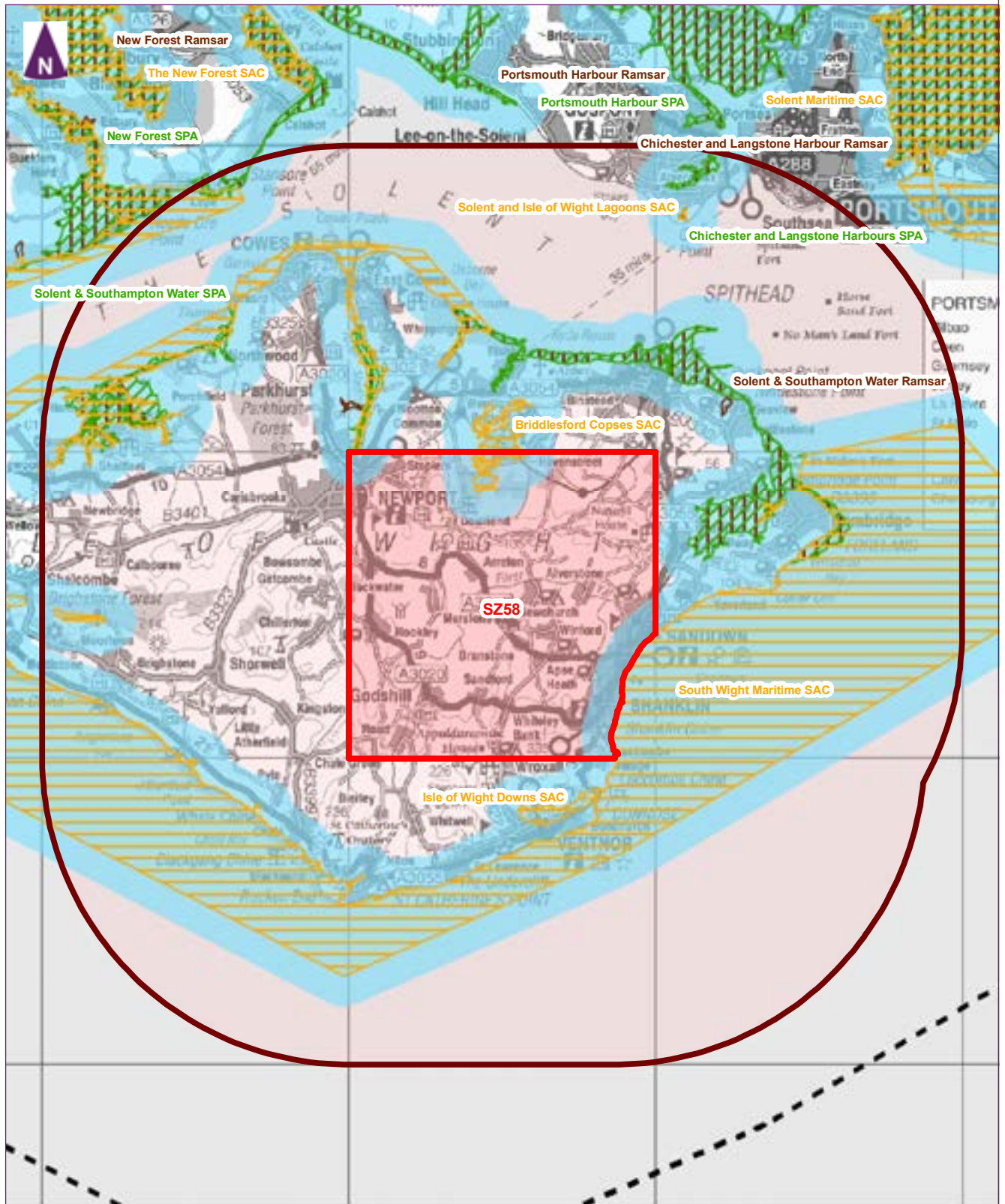Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

Figure 1
HRA of Licence Application Block SZ09a

0   5   10
km
Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Map labels: FORDINGBRIDGE, Avon Valley SPA, Avon Valley Ramsar, New Forest SPA, River Avon SAC, Dorset Heaths SAC, New Forest Ramsar, SZ09a, Poole Harbour SPA, Poole Harbour Ramsar, POOLE, BOURNEMOUTH, CHRISTCHURCH, POOLE BAY, Dorset Heaths (Purbeck and Wareham) and Studland Dunes SAC, Dorset Heathlands SPA, Dorset Heathlands Ramsar, Isle of Portland to Studland Cliffs SAC, St Albans Head to Durlston Head SAC, Studland to Portland SAC

POOLE to
Cherbourg   4-6 hrs
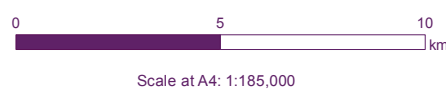Cherbourg   2 hrs
Guernsey   3 hrs
St Malo   4 hrs
(summer only)

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

Map labels:
New Forest SPA
The New Forest SAC
New Forest Ramsar
Solent and Isle of Wight Lagoons SAC
Solent & Southampton Water Ramsar
Solent & Southampton Water SPA
Solent Maritime SAC
Isle of Wight Downs SAC
South Wight Maritime SAC
SZ38a

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block SZ38a

0   5   10
km
Scale at A4: 1:185,000

Key

🟥	Licence block boundary	⬜ (orange)	Special Area of Conservation (SAC)
🟥	10km potential zones of influence	▨ (green)	Special Protection Area (SPA)
🟦	1km buffer zone	▥ (brown)	RAMSAR
┄ ┄	10km buffer zone		

Labels on map:
- Solent & Southampton Water SPA
- Solent and Isle of Wight Lagoons SAC
- Solent & Southampton Water Ramsar
- Solent Maritime SAC
- Briddlesford Copses SAC
- Isle of Wight Downs SAC
- South Wight Maritime SAC
- SZ47

0   5   10 km

Scale at A4: 1:185,000

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Department of Energy and Climate Change

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foster
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Figure 1
HRA of Licence Application Block SZ47

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Figure 1
HRA of Licence Application Block SZ48

Key

Licence block boundary
10km potential zones of influence
1km buffer zone
10km buffer zone

Special Area of Conservation (SAC)
Special Protection Area (SPA)
RAMSAR

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

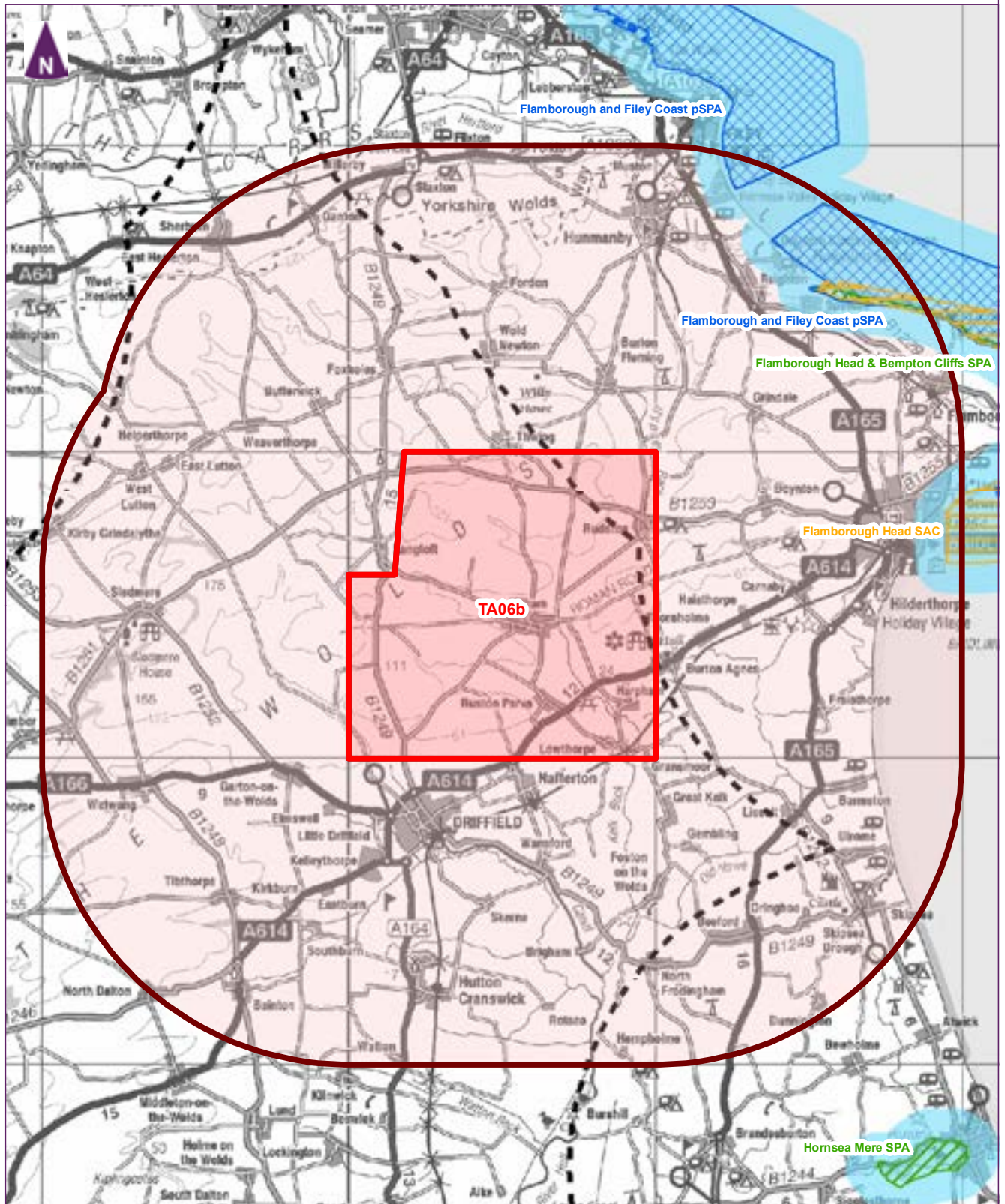Scale at A4: 1:185,000

0   5   10
km

November 2015   33917-Lea46c.mxd BROWJ

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New Forest Ramsar
New Forest SPA
The New Forest SAC
Solent & Southampton Water Ramsar
Solent & Southampton Water SPA
Solent and Isle of Wight Lagoons SAC
Solent Maritime SAC
Isle of Wight Downs SAC
South Wight Maritime SAC
Portsmouth Harbour SPA
Portsmouth Harbour Ramsar
Briddlesford Copses SAC

SZ48

amec foster wheeler

Key

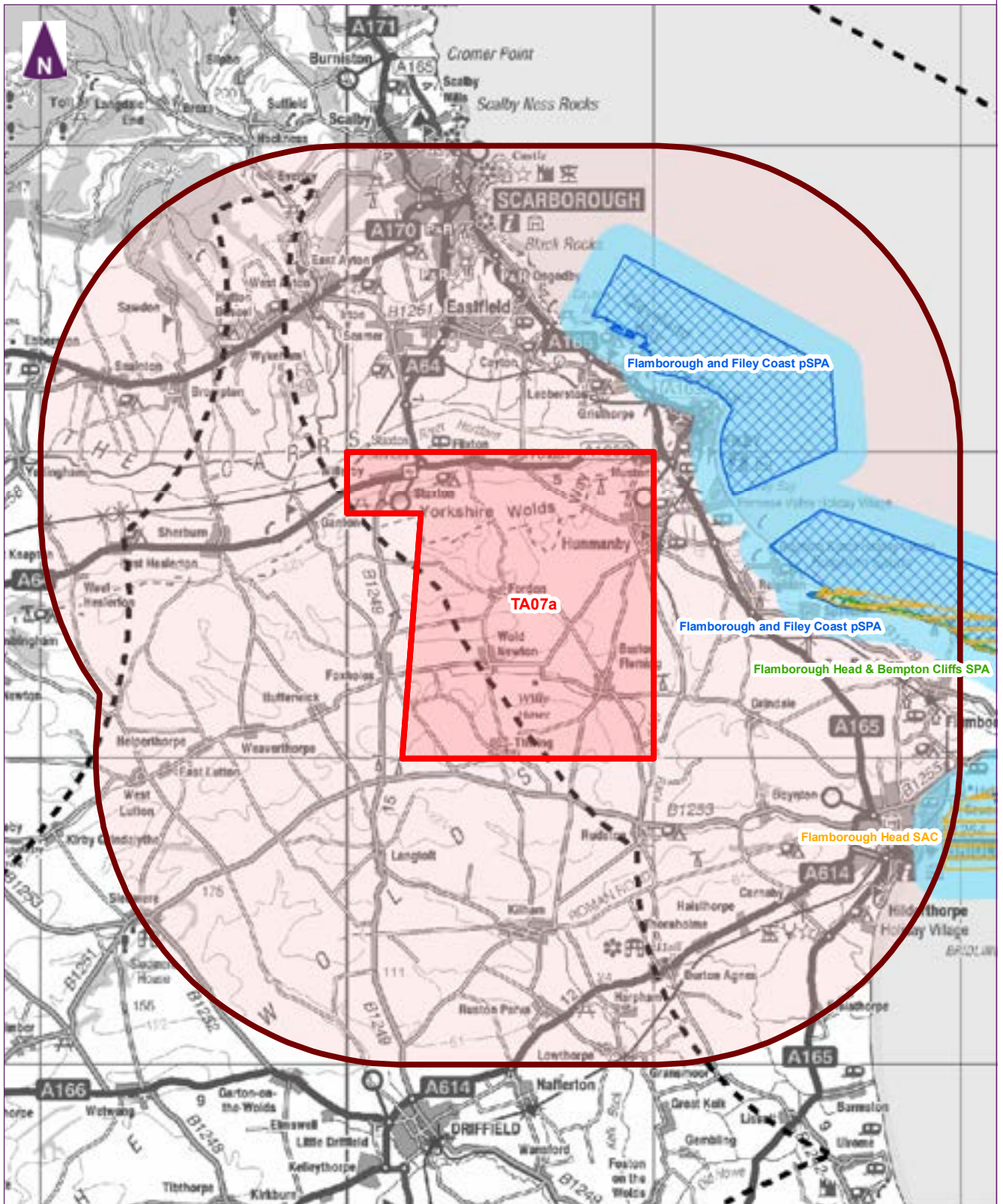|	
Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

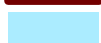Habitat Regulations Assessment
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Figure 1
HRA of Licence Application Block SZ57

0   5   10
km

Scale at A4: 1:185,000

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Map labels:
Solent Maritime SAC
Solent & Southampton Water SPA
Solent & Southampton Water Ramsar
Briddlesford Copses SAC
Solent and Isle of Wight Lagoons SAC
South Wight Maritime SAC
Isle of Wight Downs SAC
SZ57

file: H:\Projects\33917_LEA\33917-Lea46b map packageV101\33917-Lea46c.mxd

N

New Forest Ramsar

The New Forest SAC

New Forest SPA

Portsmouth Harbour Ramsar

Portsmouth Harbour SPA

Solent Maritime SAC

Chichester and Langstone Harbour Ramsar

Solent and Isle of Wight Lagoons SAC

Chichester and Langstone Harbours SPA

Solent & Southampton Water SPA

SPITHEAD

PORTSM

Solent & Southampton Water Ramsar

Briddlesford Copses SAC

NEWPORT

W I G H T

SZ58

South Wight Maritime SAC

Isle of Wight Downs SAC

VENTNOR

Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Special Protection Area (SPA)

RAMSAR
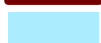
0   5   10
km

Scale at A4: 1:185,000

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Figure 1
**HRA of Licence Application Block
SZ58**

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- Proposed SPA (pSPA)

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Figure 1
HRA of Licence Application Block TA05

0   5   10 km

Scale at A4: 1:185,000

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Key

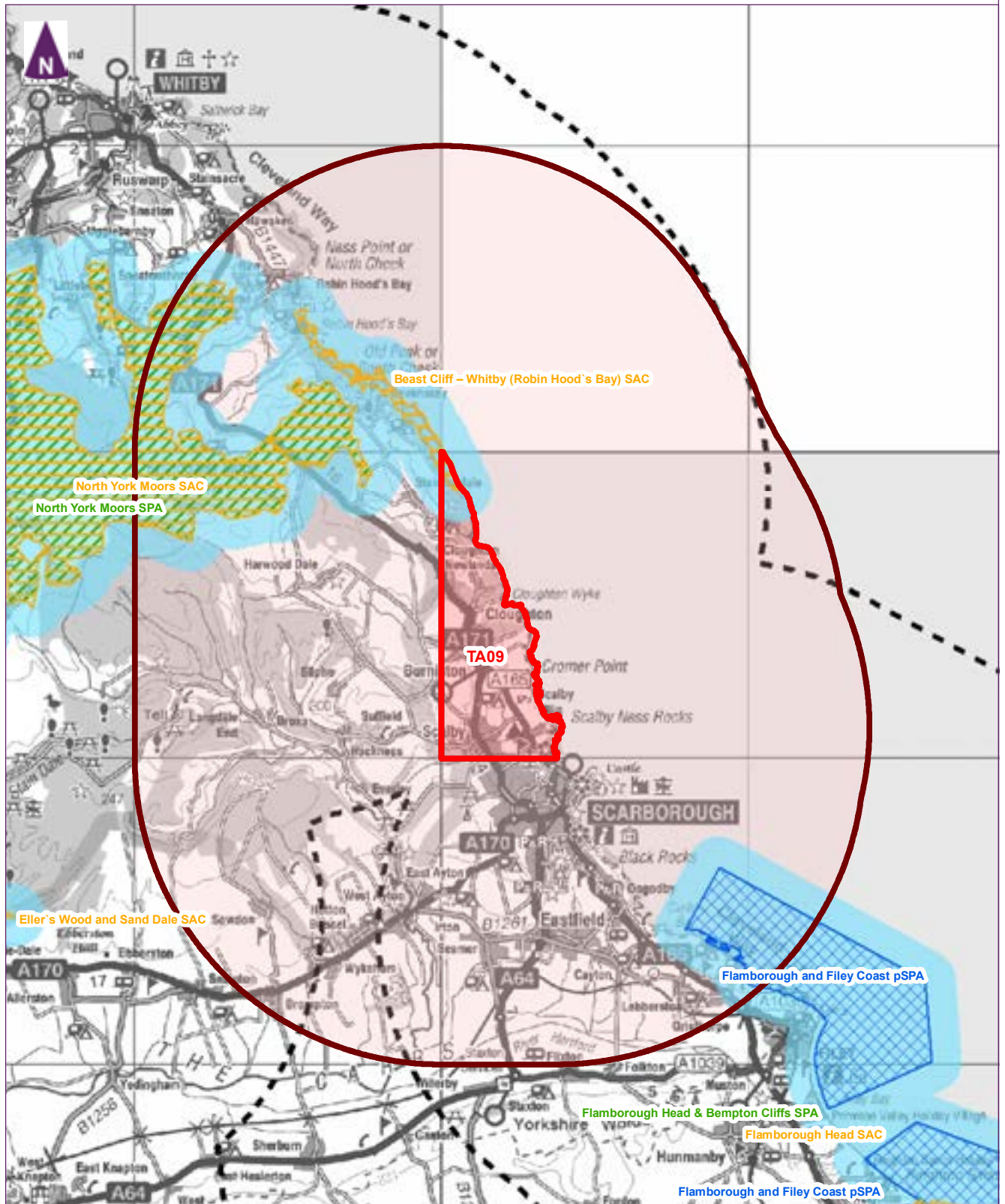|				
	Licence block boundary			Special Area of Conservation (SAC)
	10km potential zones of influence			Special Protection Area (SPA)
	1km buffer zone			Proposed SPA (pSPA)
	10km buffer zone			

Flamborough and Filey Coast pSPA

Flamborough and Filey Coast pSPA

Flamborough Head & Bempton Cliffs SPA

Flamborough Head SAC

TA06b

Hornsea Mere SPA

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Figure 1
HRA of Licence Application Block TA06b

0   5   10 km

Scale at A4: 1:185,000

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Key

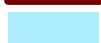|			
▰	Licence block boundary	▭ (orange)	Special Area of Conservation (SAC)
▰	10km potential zones of influence	▨ (green)	Special Protection Area (SPA)
▰ (cyan)	1km buffer zone	▨ (blue)	Proposed SPA (pSPA)
▰ (dashed)	10km buffer zone		

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
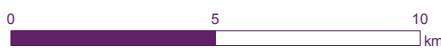Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block TA07a

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Scale at A4: 1:185,000

0   5   10 km

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Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Special Protection Area (SPA)

Proposed SPA (pSPA)

Map labels:
Beast Cliff – Whitby (Robin Hood`s Bay) SAC
North York Moors SAC
North York Moors SPA
SCARBOROUGH
TA08
Flamborough and Filey Coast pSPA
Flamborough and Filey Coast pSPA
Flamborough Head & Bempton Cliffs SPA
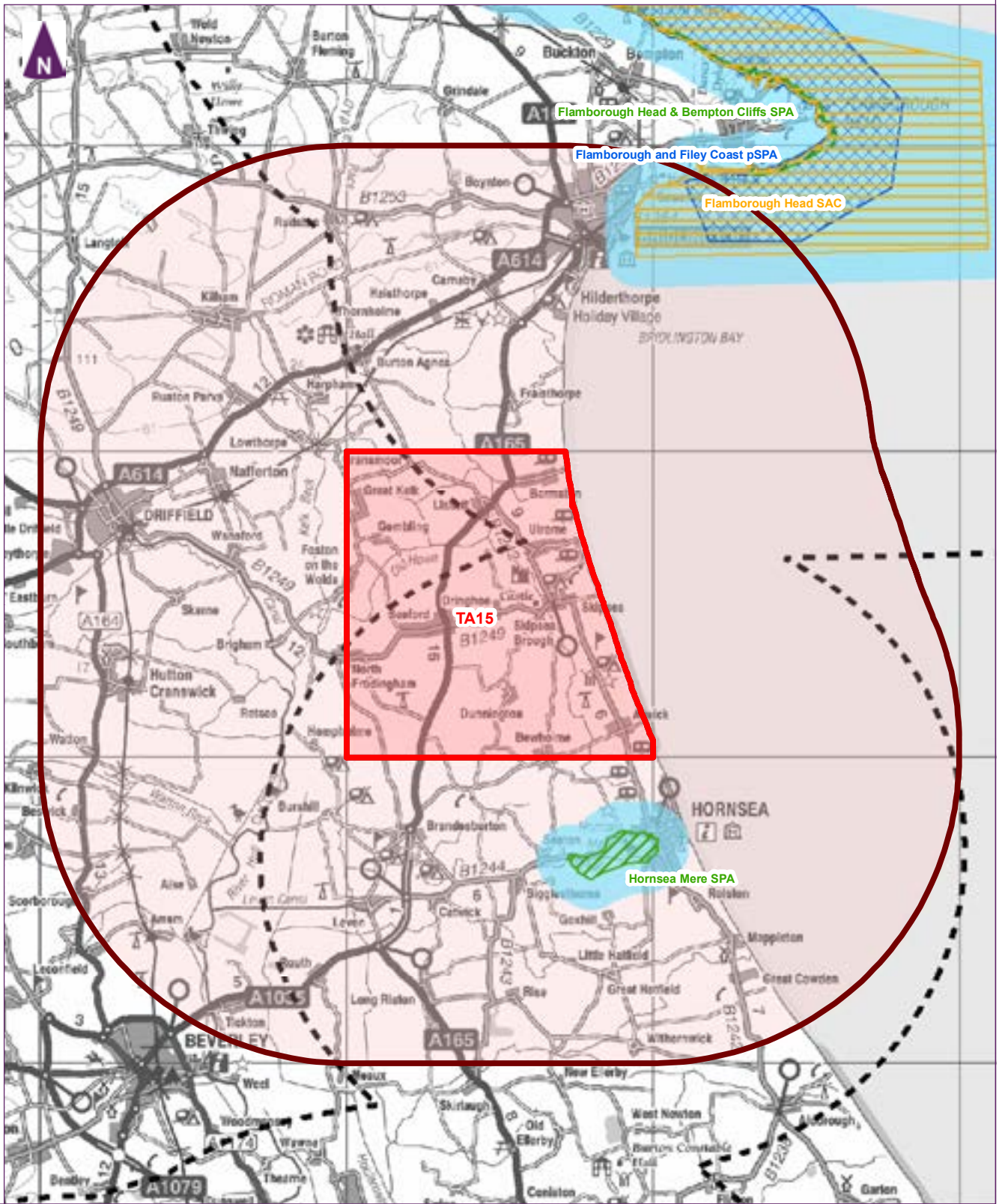Flamborough Head SAC

Scale:
0   5   10
km
Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block TA08

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	Proposed SPA (pSPA)
10km buffer zone	

Labels on map:
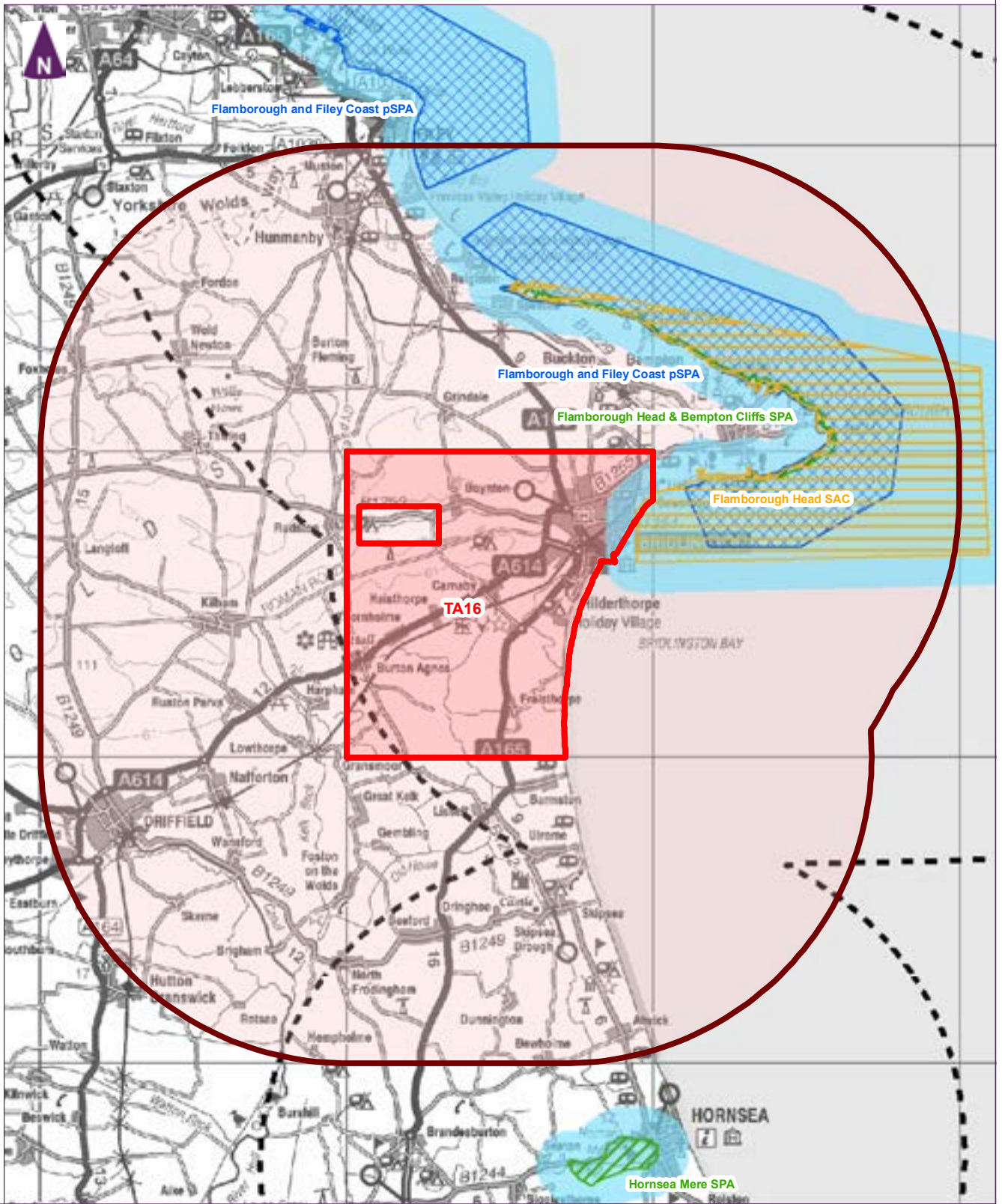- WHITBY
- Saltwick Bay
- Ruswarp
- Stainsacre
- Cleveland Way
- Ness Point or North Check
- Robin Hood's Bay
- Old Peak or Check
- Beast Cliff – Whitby (Robin Hood`s Bay) SAC
- North York Moors SAC
- North York Moors SPA
- Harwood Dale
- Cloughton Wyke
- Cloughton
- TA09
- Cromer Point
- Burniston
- Scalby
- Scalby Ness Rocks
- Suffield
- Hackness
- SCARBOROUGH
- Black Rocks
- Eller`s Wood and Sand Dale SAC
- East Ayton
- West Ayton
- Eastfield
- Flamborough and Filey Coast pSPA
- Cayton
- Yorkshire
- Sherburn
- Flamborough Head & Bempton Cliffs SPA
- Flamborough Head SAC
- Hunmanby
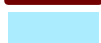- Flamborough and Filey Coast pSPA

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Figure 1
HRA of Licence Application Block TA09

Scale at A4: 1:185,000

0 ... 5 ... 10 km

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Figure 1
HRA of Licence Application Block TA15

Key

- ▬ Licence block boundary
- ▬ 10km potential zones of influence
- ▬ 1km buffer zone
- - - - 10km buffer zone
- ▭ Special Area of Conservation (SAC)
- ▨ Special Protection Area (SPA)
- ▨ Proposed SPA (pSPA)
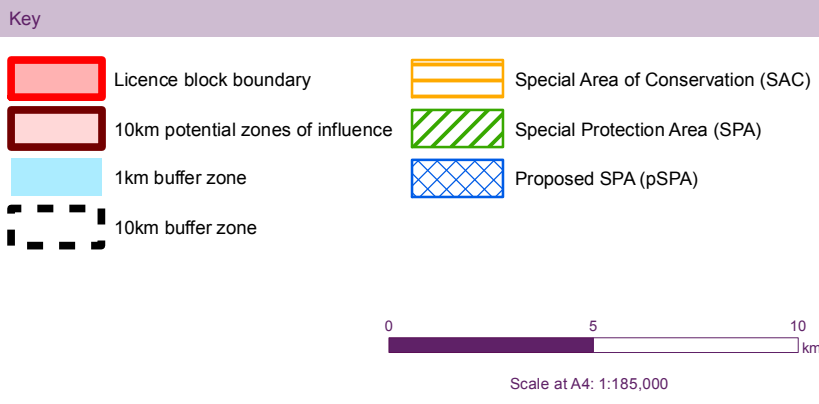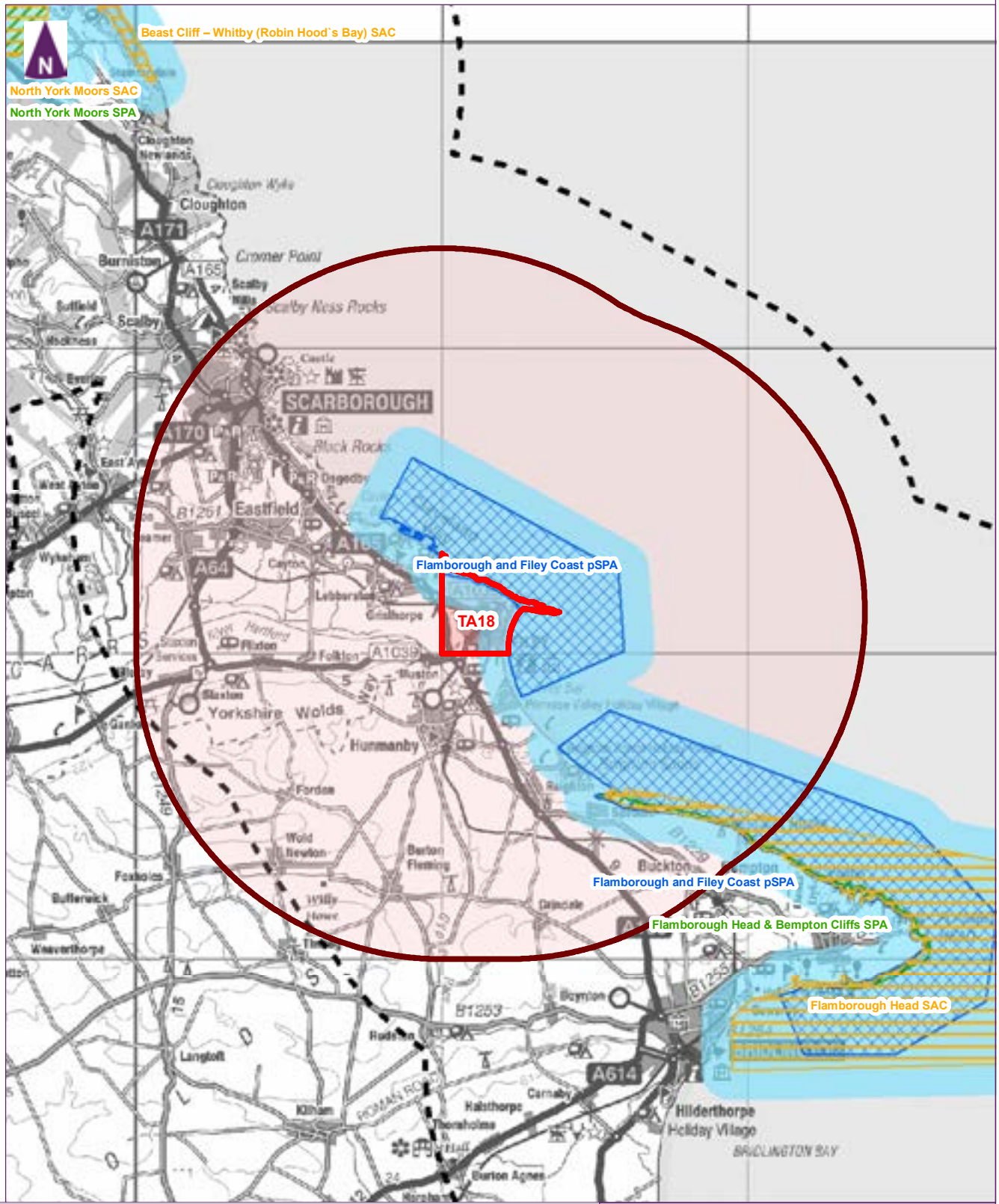
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Scale at A4: 1:185,000

0   5   10
km

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Flamborough Head & Bempton Cliffs SPA
Flamborough and Filey Coast pSPA
Flamborough Head SAC
Hornsea Mere SPA
TA15

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- Proposed SPA (pSPA)

Flamborough and Filey Coast pSPA

Flamborough and Filey Coast pSPA

Flamborough Head & Bempton Cliffs SPA

Flamborough Head SAC

TA16

Hornsea Mere SPA

0   5   10 km

Scale at A4: 1:185,000

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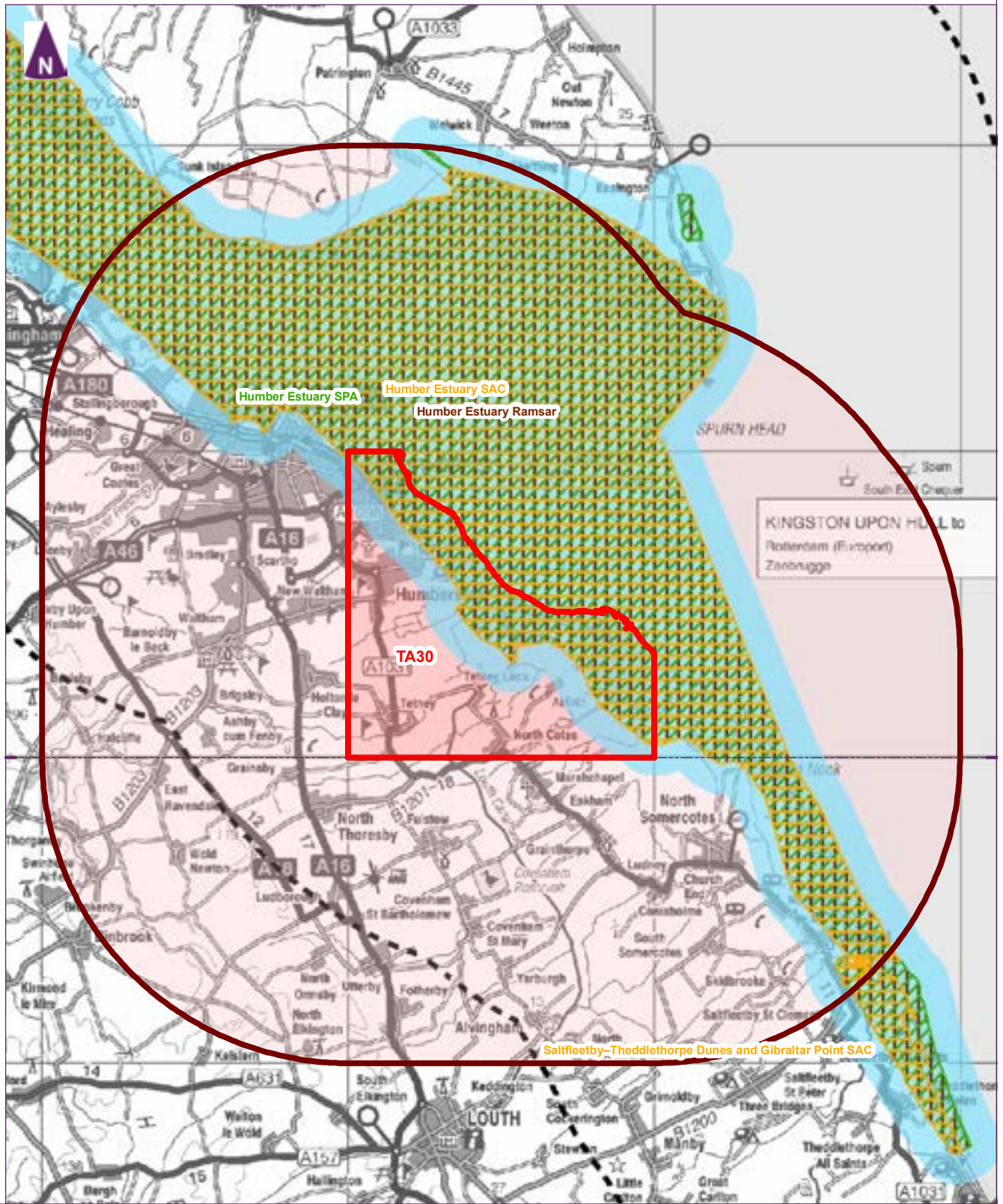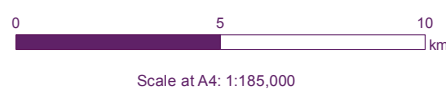Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block TA16

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	Proposed SPA (pSPA)
10km buffer zone	

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
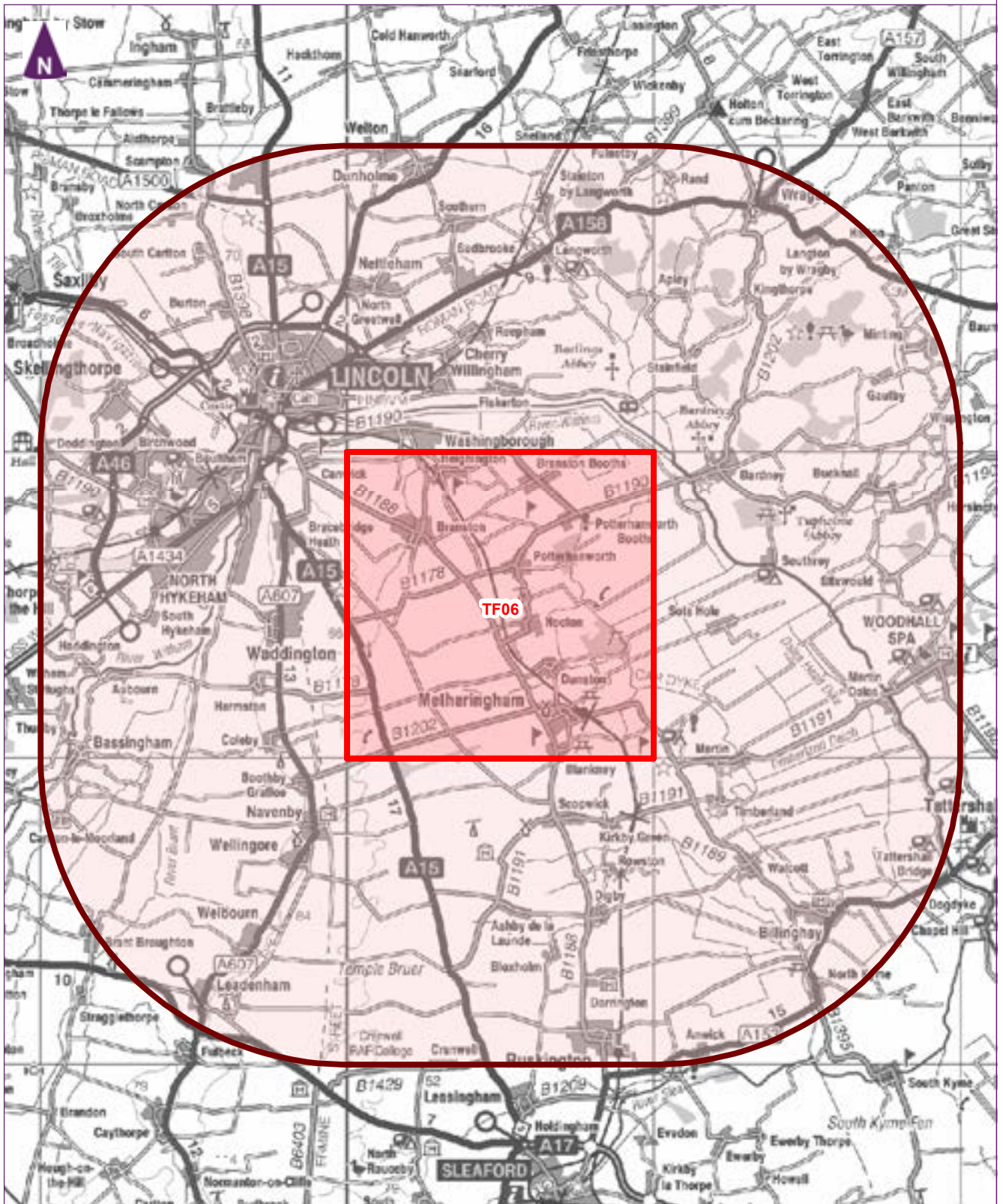Department of Energy and Climate Change

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Figure 1
HRA of Licence Application Block TA17

0   5   10
                km

Scale at A4: 1:185,000

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Beast Cliff – Whitby (Robin Hood's Bay) SAC

North York Moors SAC
North York Moors SPA

Flamborough and Filey Coast pSPA

TA18

Flamborough and Filey Coast pSPA

Flamborough Head & Bempton Cliffs SPA

Flamborough Head SAC

Key

▭ (red)	Licence block boundary
▭ (pink)	10km potential zones of influence
▭ (blue)	1km buffer zone
▭ (dashed)	10km buffer zone
▭ (orange)	Special Area of Conservation (SAC)
▭ (green hatch)	Special Protection Area (SPA)
▭ (blue hatch)	Proposed SPA (pSPA)

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Figure 1
HRA of Licence Application Block TA18

0   5   10
km

Scale at A4: 1:185,000

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Key

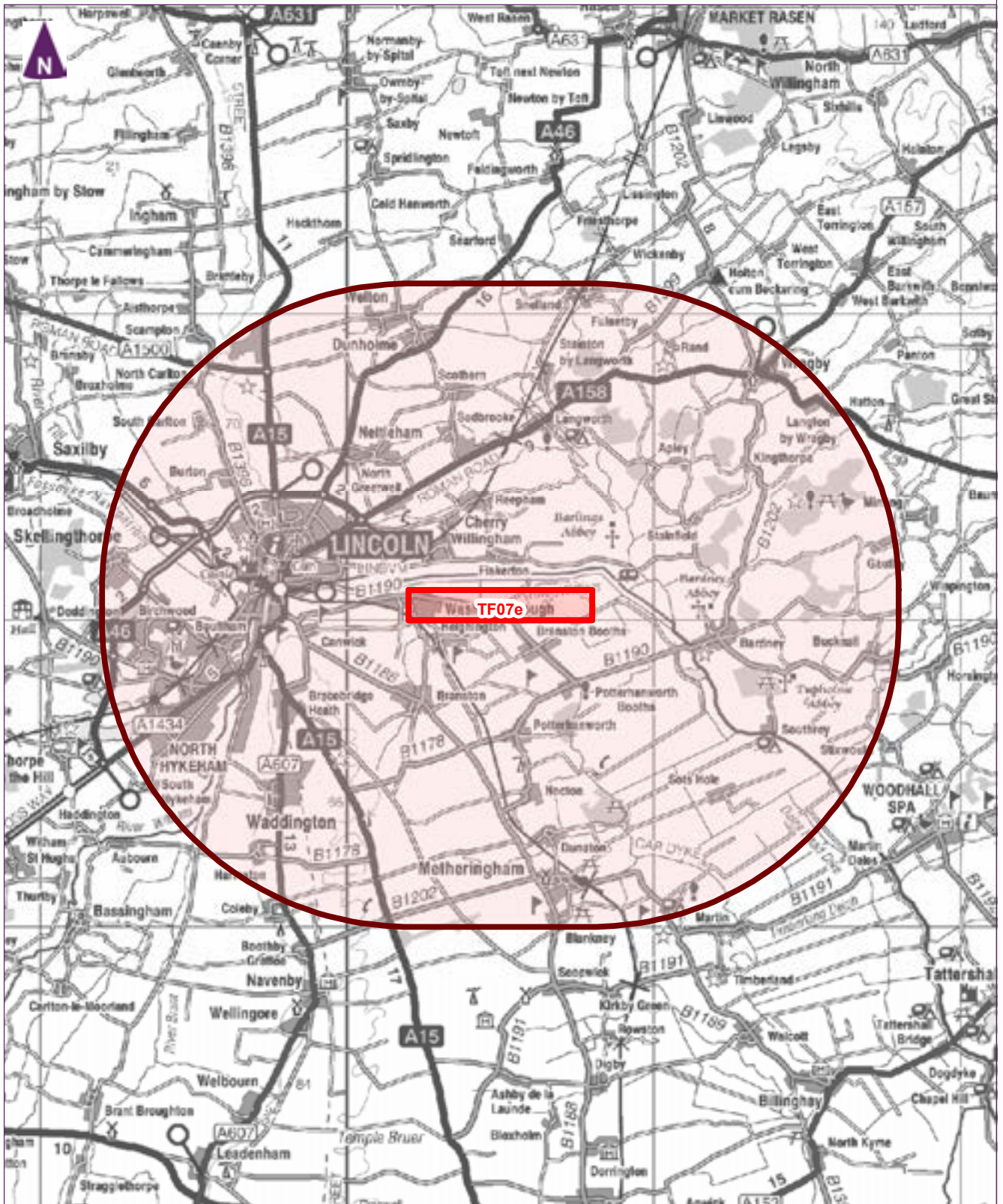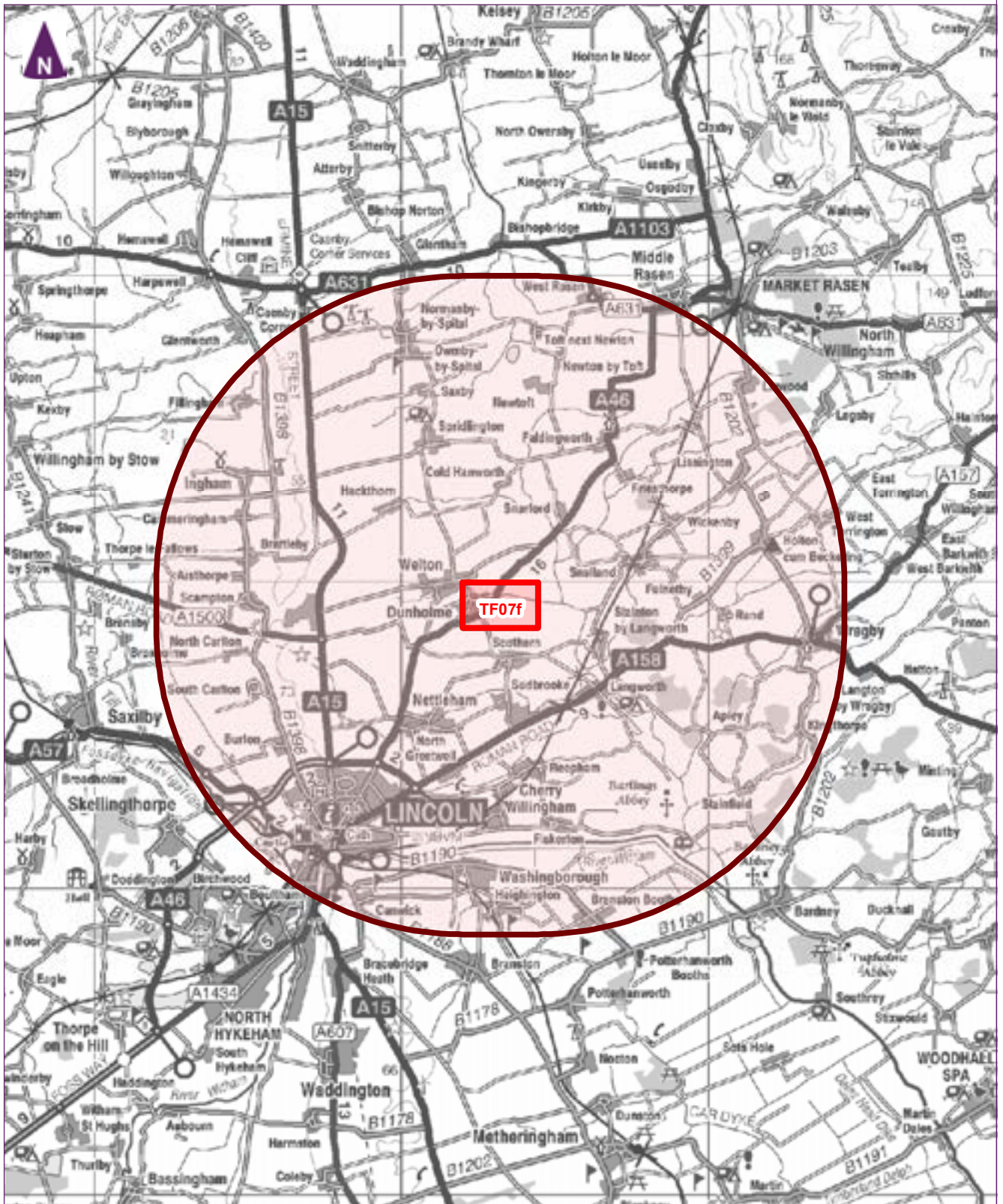- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

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Figure 1
HRA of Licence Application Block TA30

0   5   10 km

Scale at A4: 1:185,000

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Labels on map:
- Humber Estuary SPA
- Humber Estuary SAC
- Humber Estuary Ramsar
- SPURN HEAD
- KINGSTON UPON HULL to Rotterdam (Europort) Zeebrugge
- TA30
- Saltfleetby–Theddlethorpe Dunes and Gibraltar Point SAC
- LOUTH

Key

Licence block boundary

10km potential zones of influence

Scale at A4: 1:185,000

0   5   10 km

TF07e

Key

Licence block boundary

10km potential zones of influence

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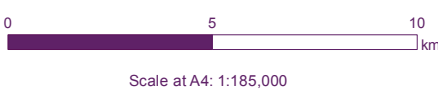Figure 1
HRA of Licence Application Block
TF07e

0   5   10
                              km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

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Key

Licence block boundary

10km potential zones of influence

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Figure 1
HRA of Licence Application Block TF07f

Scale at A4: 1:185,000

0   5   10
km

Key

- Licence block boundary
- 10km potential zones of influence
- 10km buffer zone

TF17

Scale at A4: 1:185,000

0   5   10 km

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Key

▨	Licence block boundary
▨	10km potential zones of influence
⬚	10km buffer zone

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wheeler

0   5   10
                    km

Scale at A4: 1:185,000

**Figure 1
HRA of Licence Application Block
TF18b**

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Key

Licence block boundary	Special Area of Conservation (SAC)
10km potential zones of influence	Special Protection Area (SPA)
1km buffer zone	RAMSAR
10km buffer zone	

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
Department of Energy and Climate Change

amec
foster
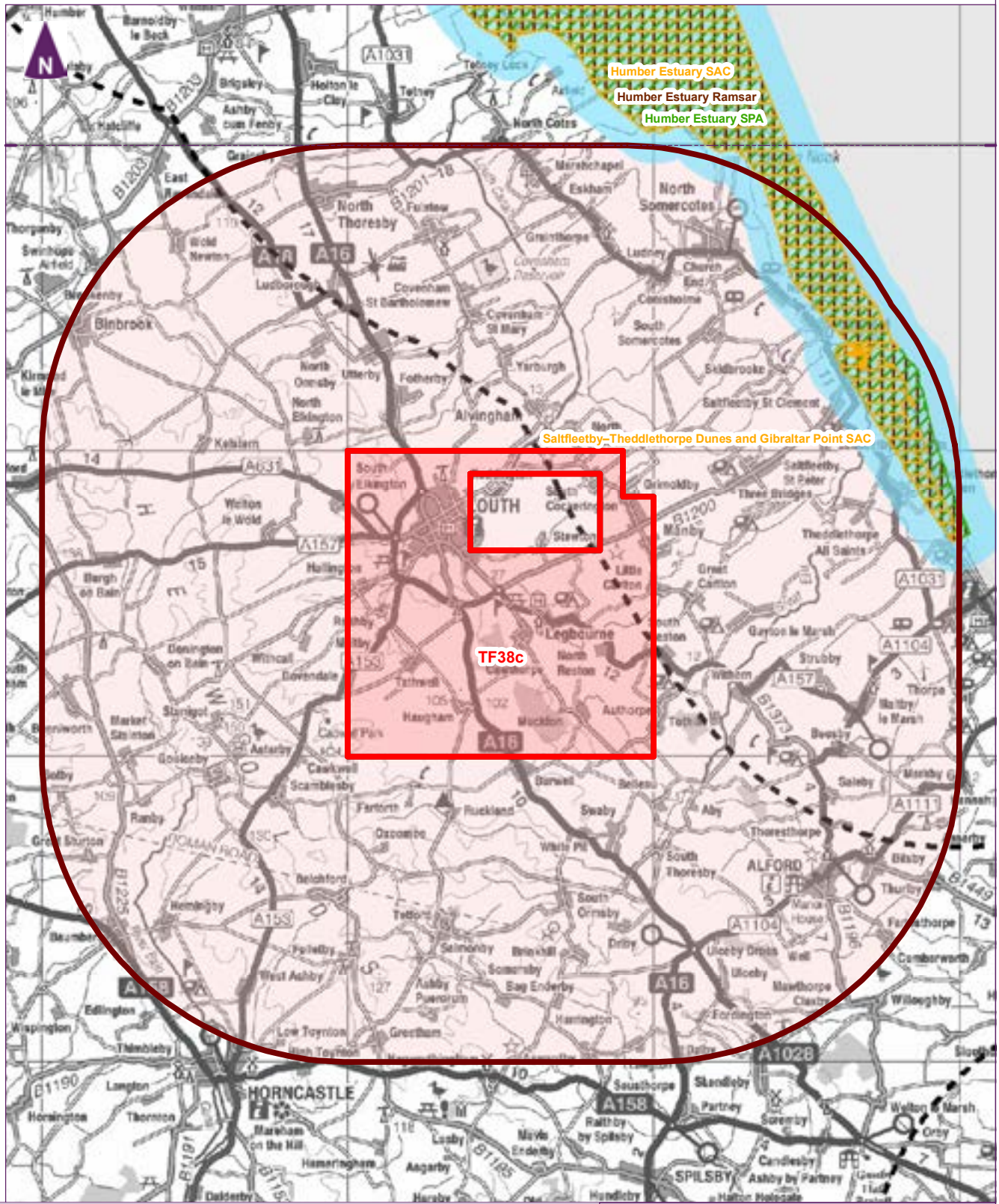wheeler

Figure 1
HRA of Licence Application Block TF36
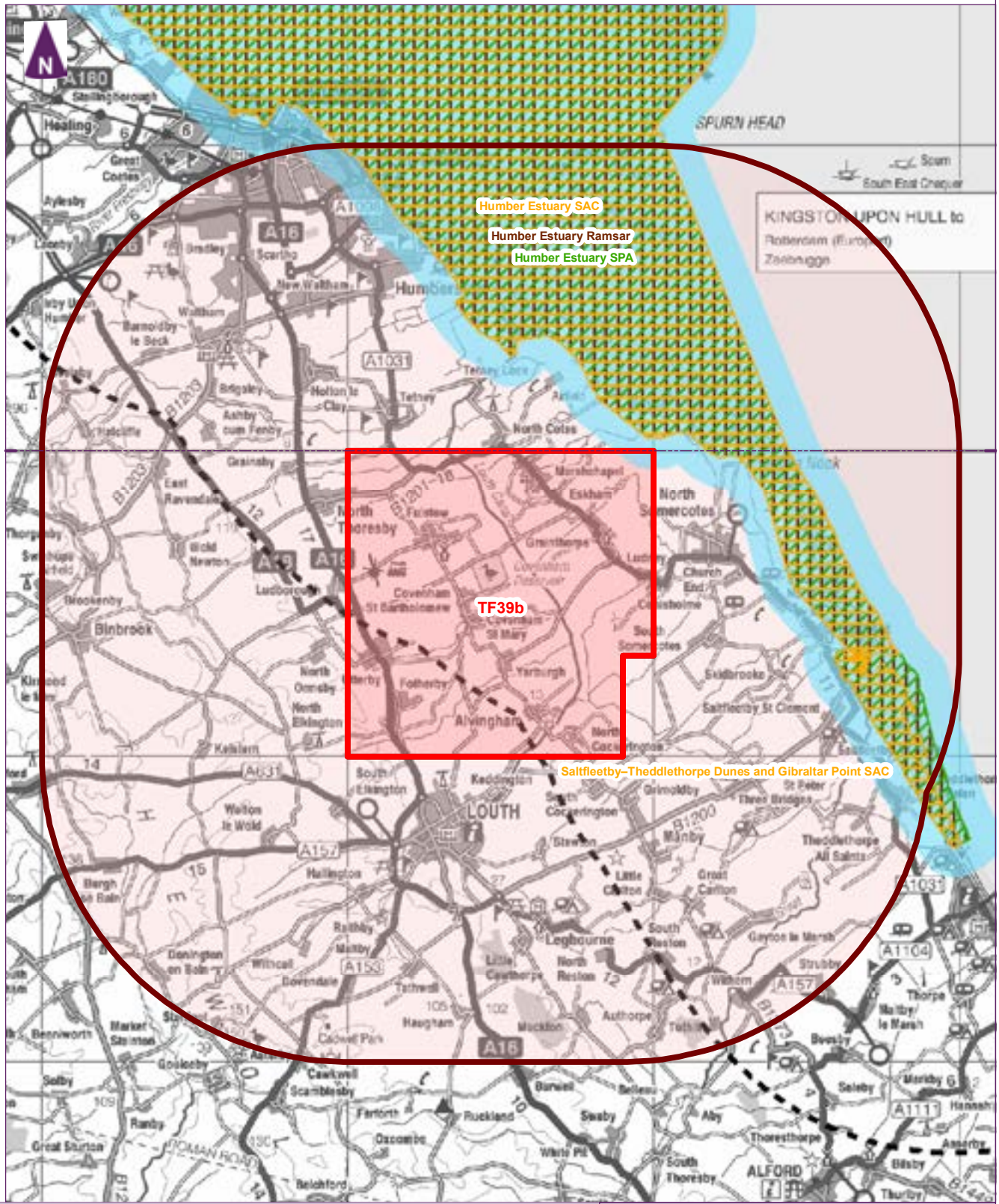
0   5   10
km

Scale at A4: 1:185,000

Humber Estuary SAC
Humber Estuary Ramsar
Humber Estuary SPA

Saltfleetby–Theddlethorpe Dunes and Gibraltar Point SAC

TF38c

Key

▨	Licence block boundary
▨	10km potential zones of influence
▨	1km buffer zone
┅	10km buffer zone
▨	Special Area of Conservation (SAC)
▨	Special Protection Area (SPA)
▨	RAMSAR

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
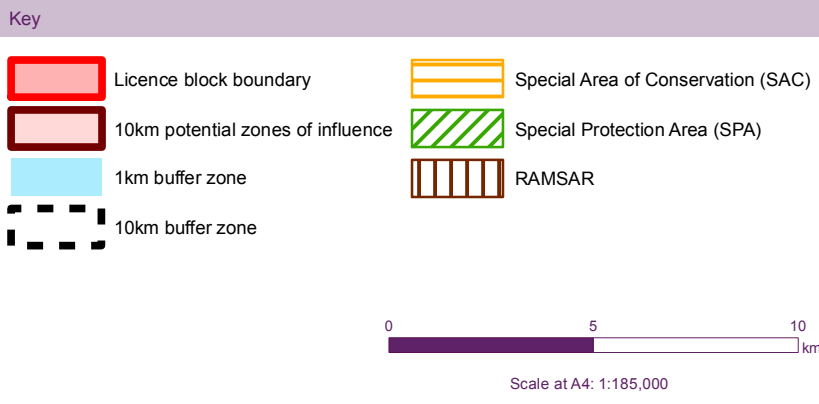Department of Energy and Climate Change

Figure 1
HRA of Licence Application Block TF38c

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wheeler

0   5   10 km

Scale at A4: 1:185,000

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Key

Licence block boundary

10km potential zones of influence

1km buffer zone

10km buffer zone

Special Area of Conservation (SAC)

Special Protection Area (SPA)

RAMSAR

Humber Estuary SAC
Humber Estuary Ramsar
Humber Estuary SPA

Saltfleetby–Theddlethorpe Dunes and Gibraltar Point SAC

TF39b

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
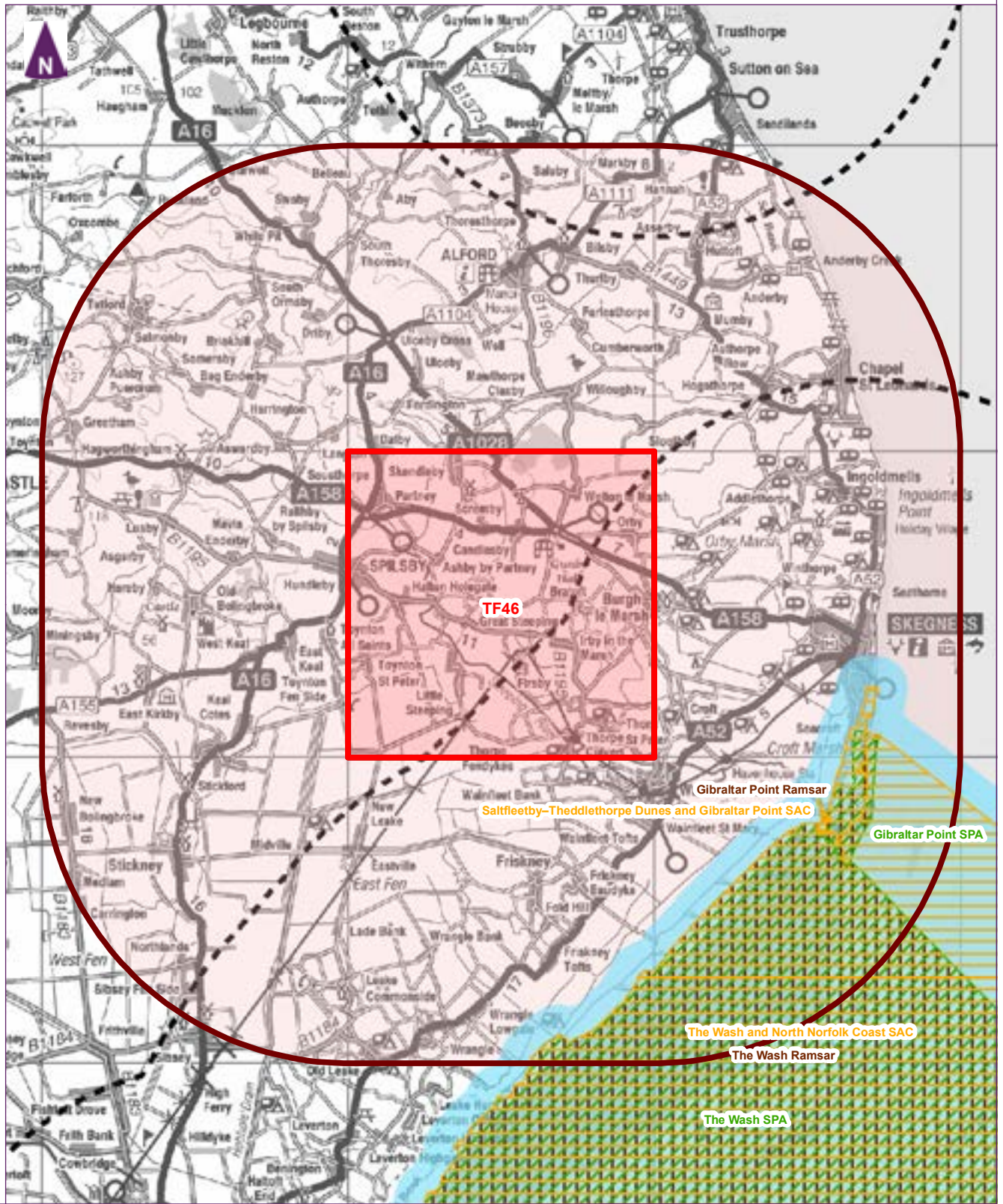Department of Energy and Climate Change

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foster
wheeler

Figure 1
HRA of Licence Application Block TF39b

0   5   10 km

Scale at A4: 1:185,000

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

TF46

Gibraltar Point Ramsar
Saltfleetby–Theddlethorpe Dunes and Gibraltar Point SAC
Gibraltar Point SPA
The Wash and North Norfolk Coast SAC
The Wash Ramsar
The Wash SPA

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Figure 1
HRA of Licence Application Block TF46

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0   5   10 km

Scale at A4: 1:185,000

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Figure 1
HRA of Licence Application Block TF47

Key

▭ (red outline)	Licence block boundary
▭ (dark red outline, pink fill)	10km potential zones of influence
▭ (light blue)	1km buffer zone
- - - -	10km buffer zone
▭ (orange lines)	Special Area of Conservation (SAC)
▭ (green hatching)	Special Protection Area (SPA)
▭ (brown lines)	RAMSAR

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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wheeler

Scale at A4: 1:185,000

0   5   10 km

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
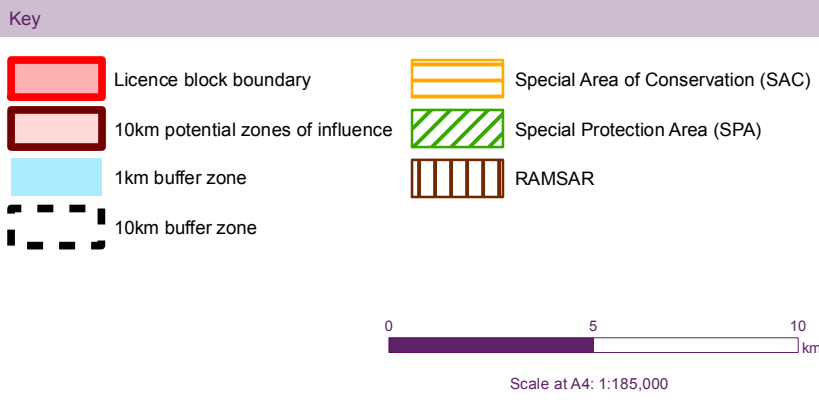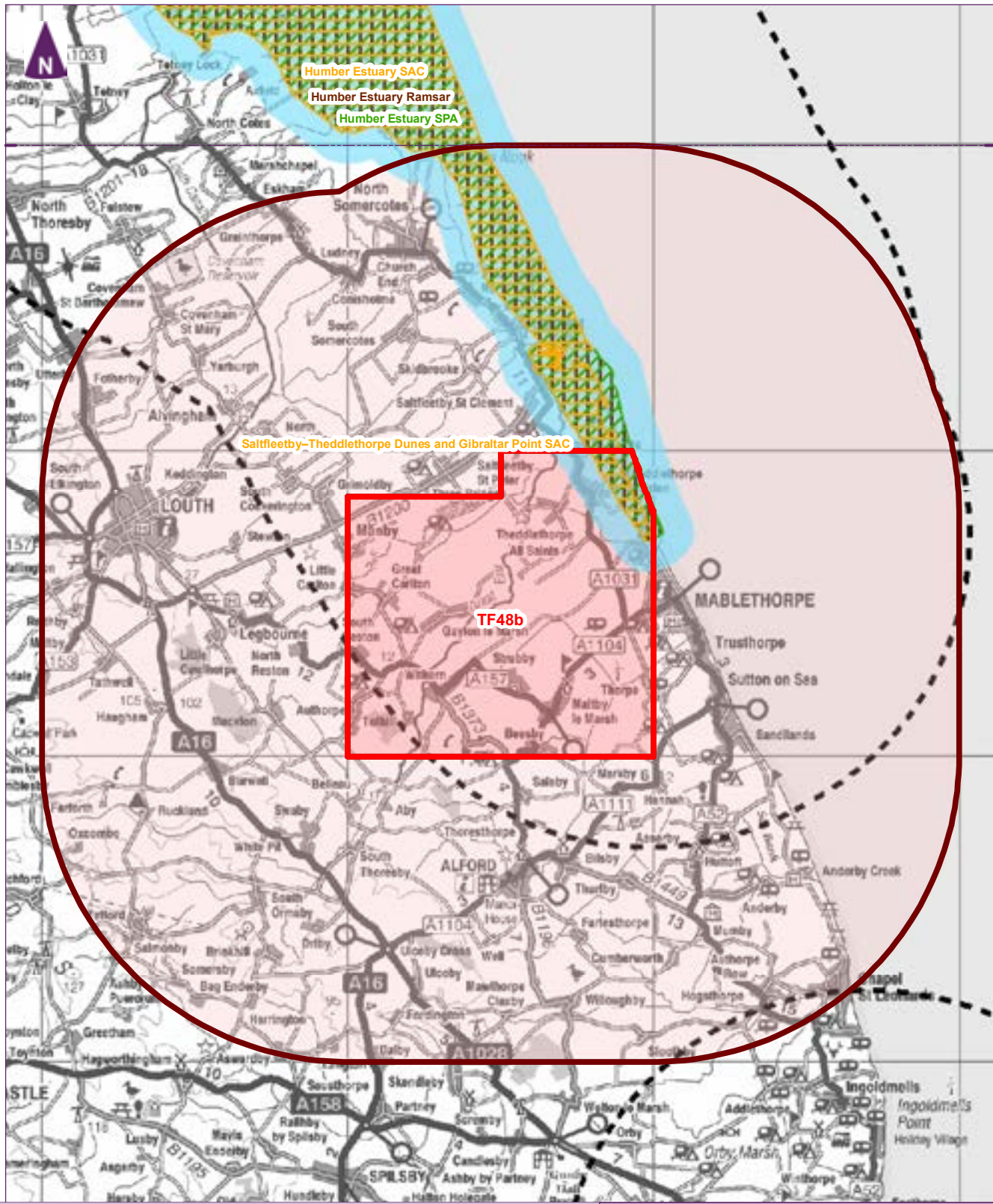- Special Protection Area (SPA)
- RAMSAR

Humber Estuary SAC
Humber Estuary Ramsar
Humber Estuary SPA

Saltfleetby–Theddlethorpe Dunes and Gibraltar Point SAC

TF48b

0   5   10
km

Scale at A4: 1:185,000

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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Figure 1
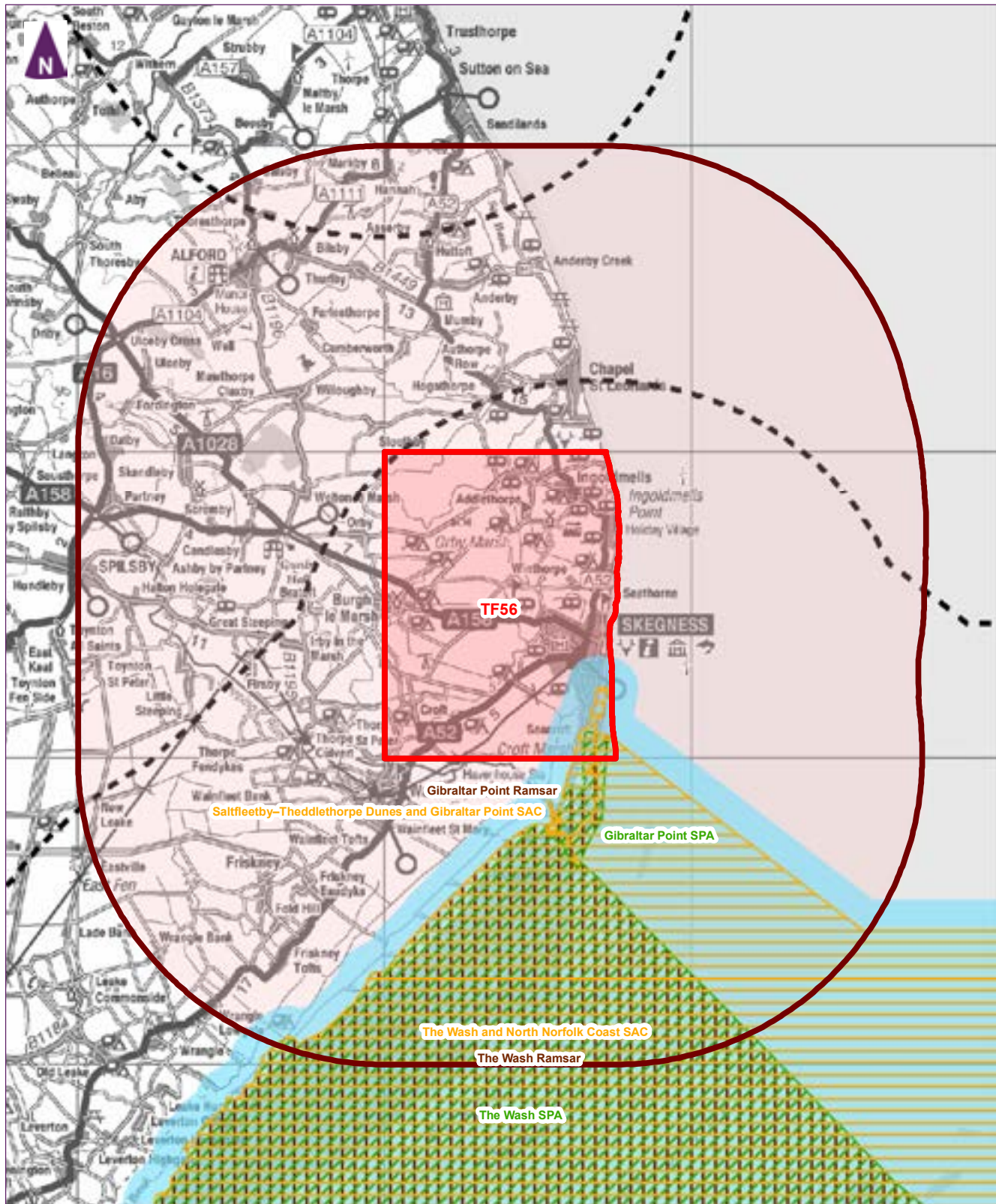**HRA of Licence Application Block TF48b**

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Figure 1
HRA of Licence Application Block TF56

Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
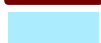- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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0   5   10 km
Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

file: H:\Projects\33917_LEA\33917-Lea46b map package\V101\33917-Lea46c.mxd

Map labels:
TF56
Gibraltar Point Ramsar
Saltfleetby–Theddlethorpe Dunes and Gibraltar Point SAC
Gibraltar Point SPA
The Wash and North Norfolk Coast SAC
The Wash Ramsar
The Wash SPA

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Key

- Licence block boundary
- 10km potential zones of influence
- 1km buffer zone
- 10km buffer zone
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)
- RAMSAR

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Figure 1
HRA of Licence Application Block TF57

0   5   10 km

Scale at A4: 1:185,000

November 2015   33917-Lea46c.mxd BROWJ

Key

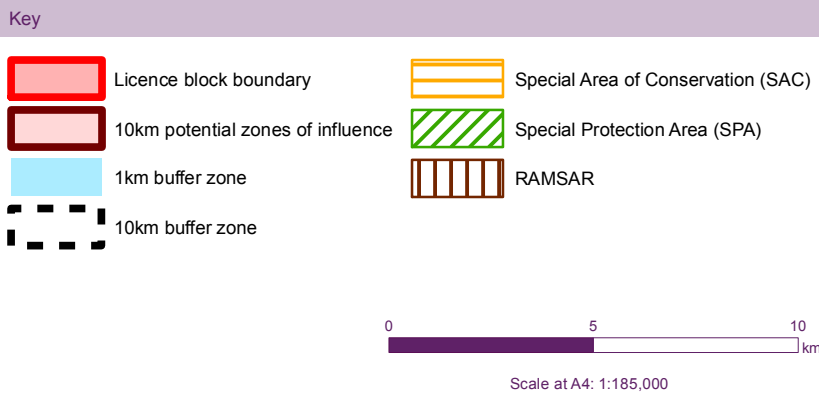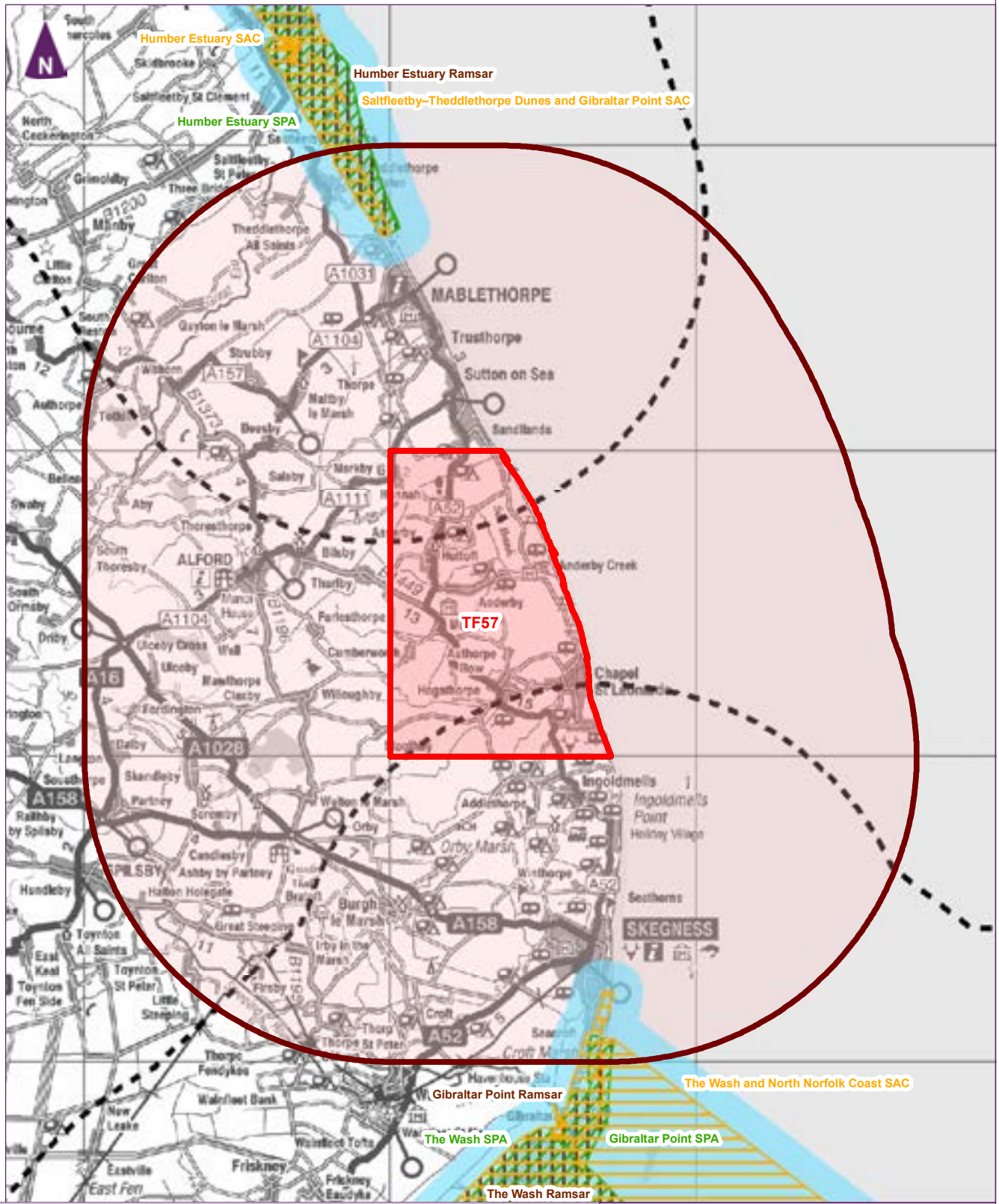|			
Licence block boundary		Special Area of Conservation (SAC)	
10km potential zones of influence		Special Protection Area (SPA)	
1km buffer zone			
10km buffer zone			

Habitat Regulations Assessment (HRA) of 14th Round Onshore Oil and Gas Licence Applications
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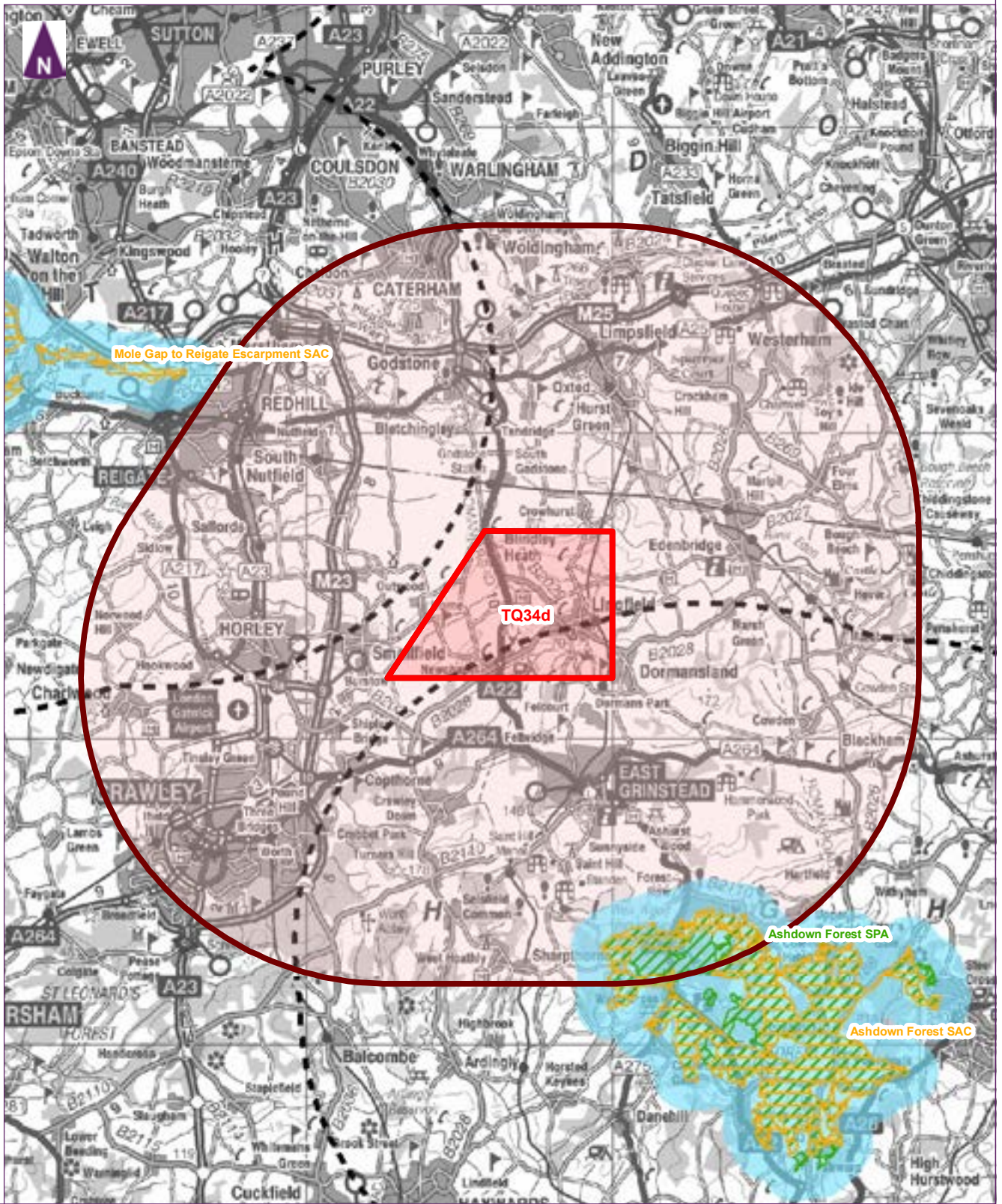
Figure 1
HRA of Licence Application Block TQ34d

Scale at A4: 1:185,000

0   5   10 km

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Mole Gap to Reigate Escarpment SAC

TQ34d

Ashdown Forest SPA

Ashdown Forest SAC