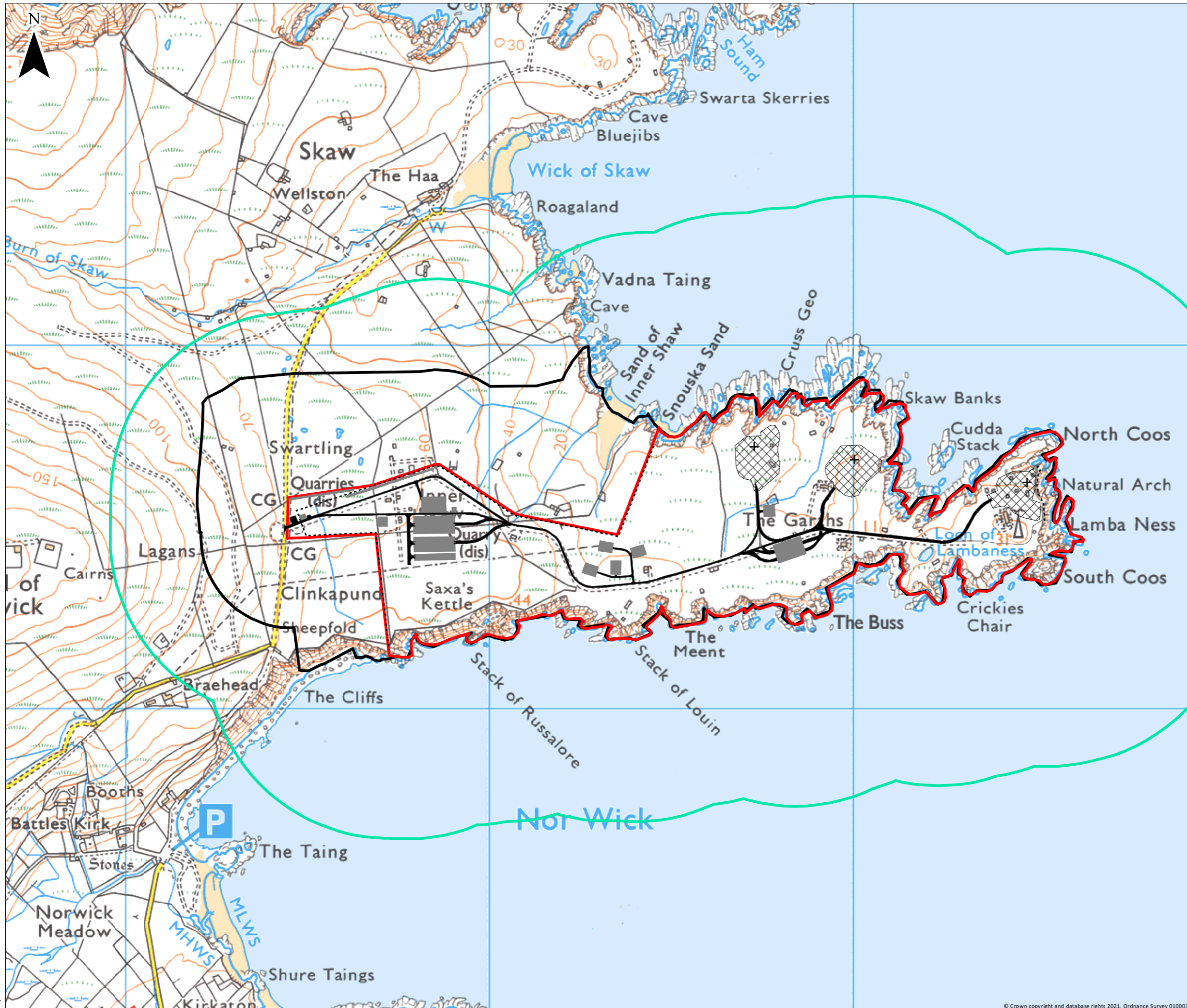
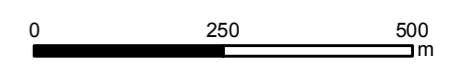


Chapter 6 Drawing 6.1 Proposed Project Study Area



- KEY**
- + Launch Pad
 - Fence
 - ▨ Fenced Launch Pad Area
 - Building/Infrastructure
 - Road
 - ▭ Proposed Project Site Boundary
 - ▭ Habitat Study Area, 250m buffer
 - ▭ Otter Study Area, 500m buffer



Scale 1:10,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 6.1

Study Area

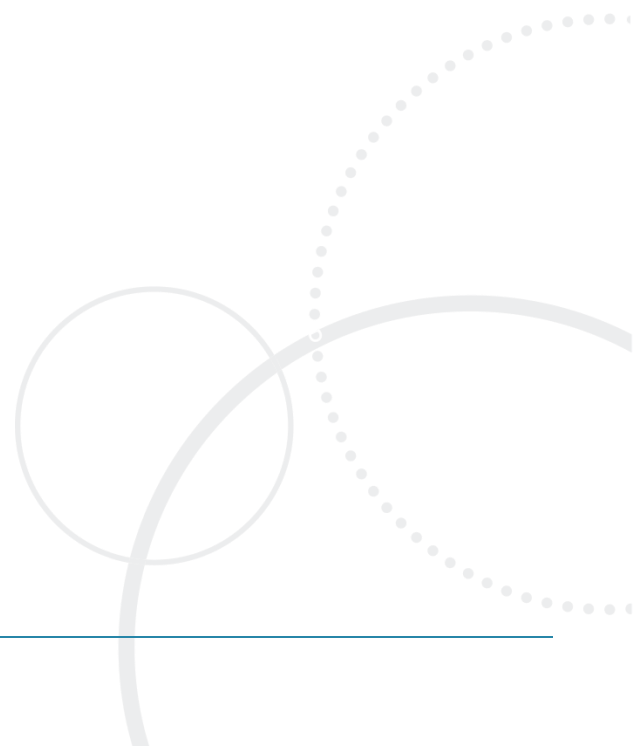
Date: 16/11/2021 Drawn by: KM Checked by: RF Version: Draft/V1

Project Number: 3148

© Crown copyright and database rights 2021. Ordnance Survey 0100031673









Chapter 6 Drawing 6.2 Designated Sites

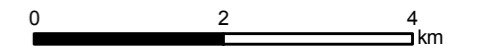
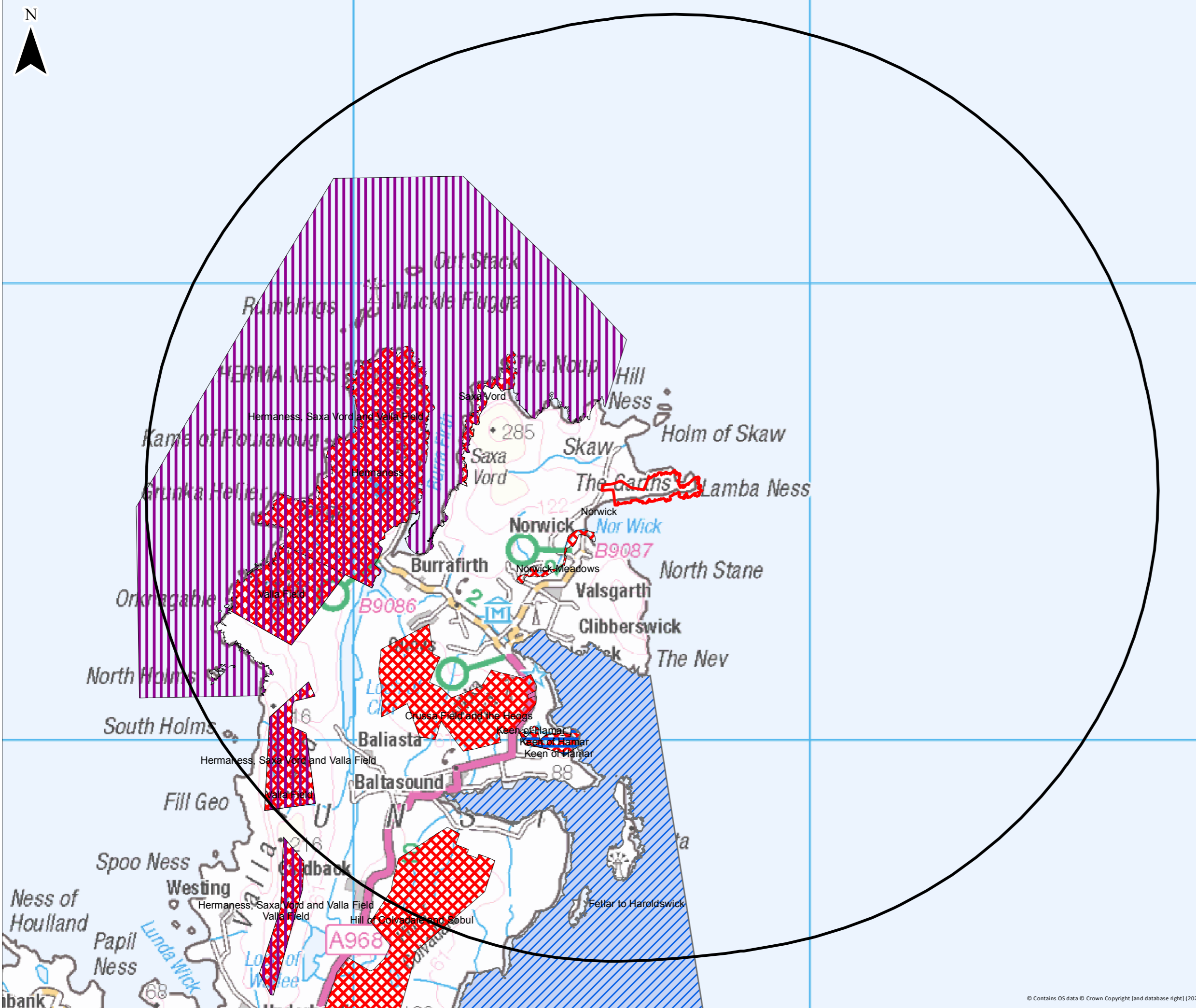


N



KEY

-  Proposed Project Boundary
-  10km buffer
-  Marine Protected Area
-  Special Areas of Conservation
-  Special Protection Areas
-  Sites of Special Scientific Interest



Scale 1:80,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

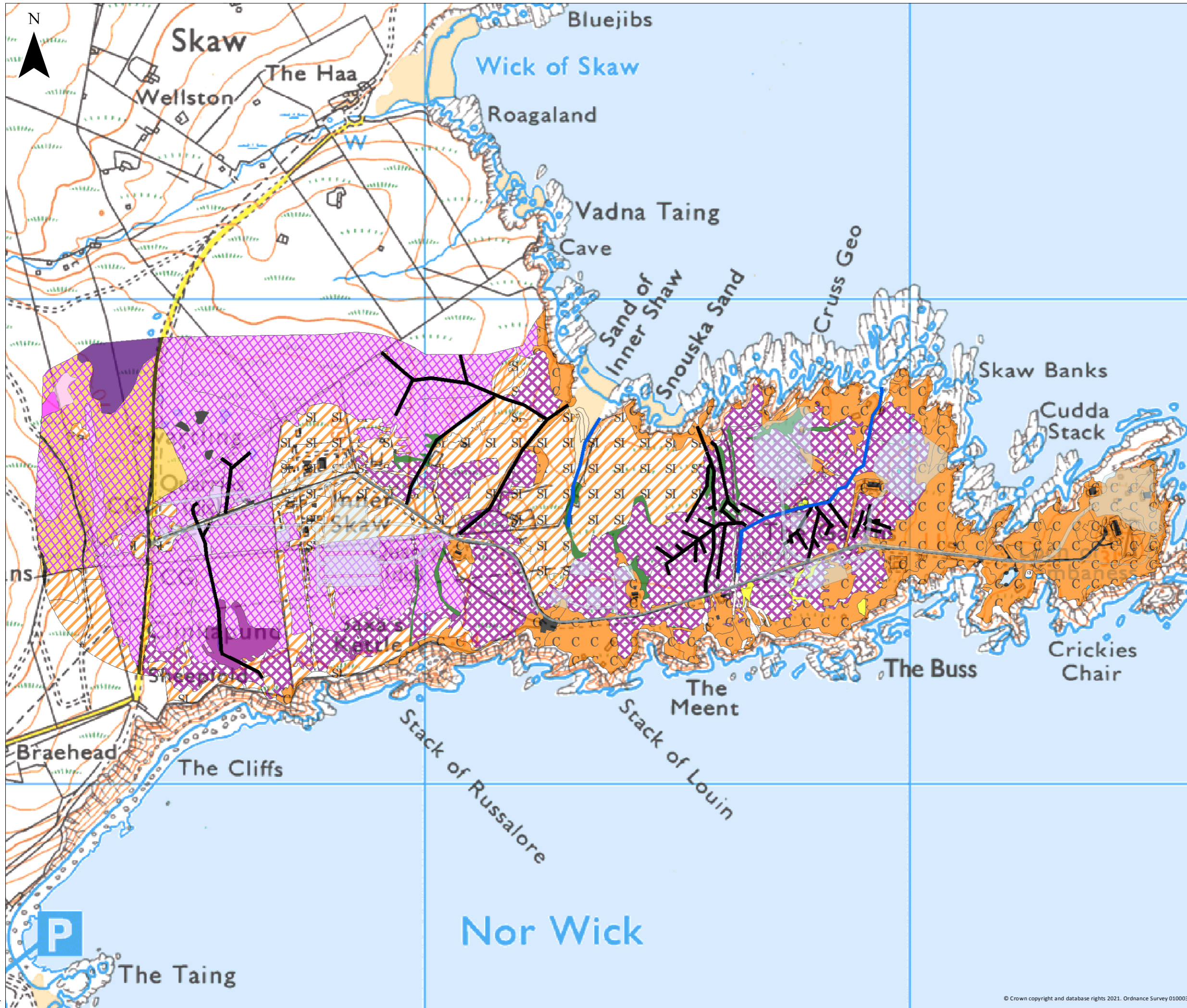
Drawing 6.2
















Designated Sites

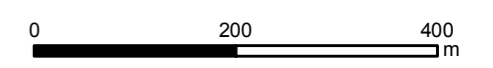
Project Number: 3148



Chapter 6 Drawing 6.3 Phase 1 Habitat Study Area



-  Infrastructure
-  Drain
-  Watercourse
-  Unimproved acid grassland
-  Semi-improved acid grassland
-  Neutral grassland
-  Blanket bog
-  Wet modified bog
-  Wet modified bog/wet heath
-  Blanket bog/bare peat
-  Wet modified bog/wet heath/bare peat
-  Wet modified bog/wet heath/acid flush
-  Dry dwarf shrub heath
-  Fen
-  Acid flush
-  Wet modified bog/wet heath/dry heath
-  Bare peat
-  Marginal vegetation
-  Standing water
-  Saltmarsh
-  Sand dunes
-  Coastal grassland
-  Buildings and roads
-  Bare ground



Scale 1:7,500 @ A3



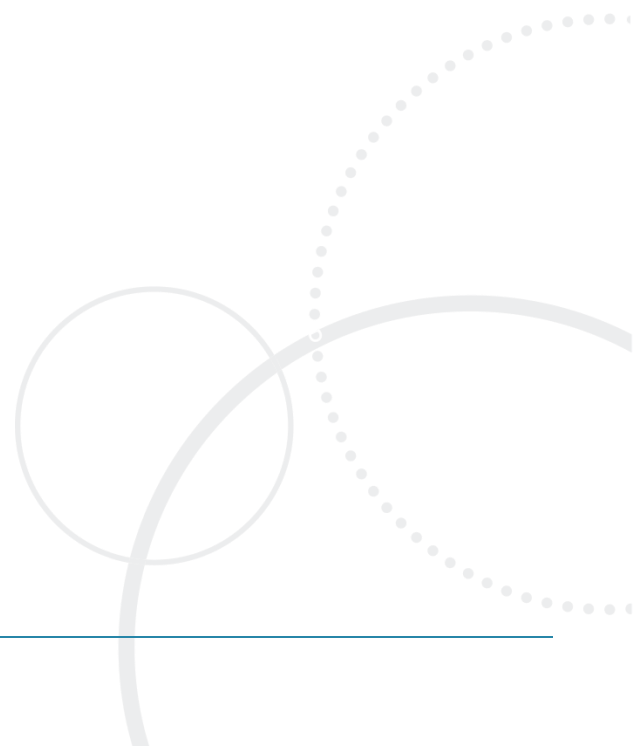
Saxa Vord Spaceport
Assessment of Environmental Effects

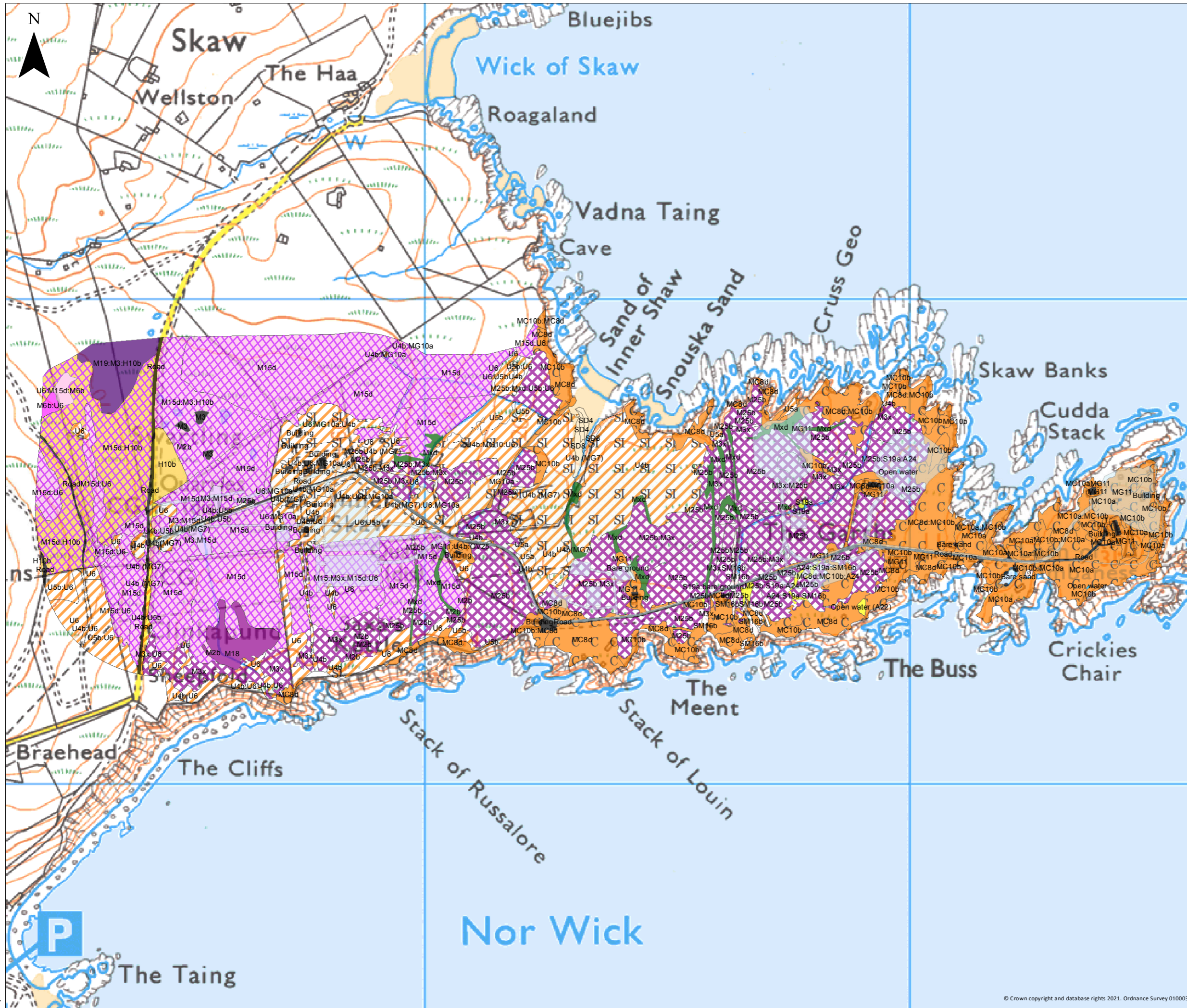
Drawing 6.3

















Phase 1 Habitats

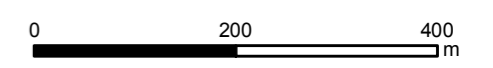


Chapter 6 Drawing 6.4 NVC Habitat Study Area





- KEY**
-  Infrastructure
 -  Unimproved acid grassland, U5, U6
 -  Semi-improved acid grassland, U4
 -  Neutral grassland, MG10
 -  Blanket bog, M2b, M18
 -  Wet modified bog, M25, M3x
 -  Wet modified bog/wet heath, M15
 -  Blanket bog/bare peat, M19/M3
 -  Wet modified bog/wet heath/bare peat, M15d/M3
 -  Wet modified bog/wet heath/acid flush, M15d/M6
 -  Dry dwarf shrub heath, H10
 -  Fen, Mxd
 -  Acid flush, M6
 -  Wet modified bog/wet heath/dry heath, M15d/H10b
 -  Bare peat, M3
 -  Marginal vegetaion, S19, A24, A22
 -  Standing water
 -  Saltmarsh, SM16
 -  Sand dunes, SD4, SD8
 -  Coastal grassland, MC8, MC10, MG11
 -  Buildings and roads
 -  Bare ground



Scale 1:7,500 @ A3



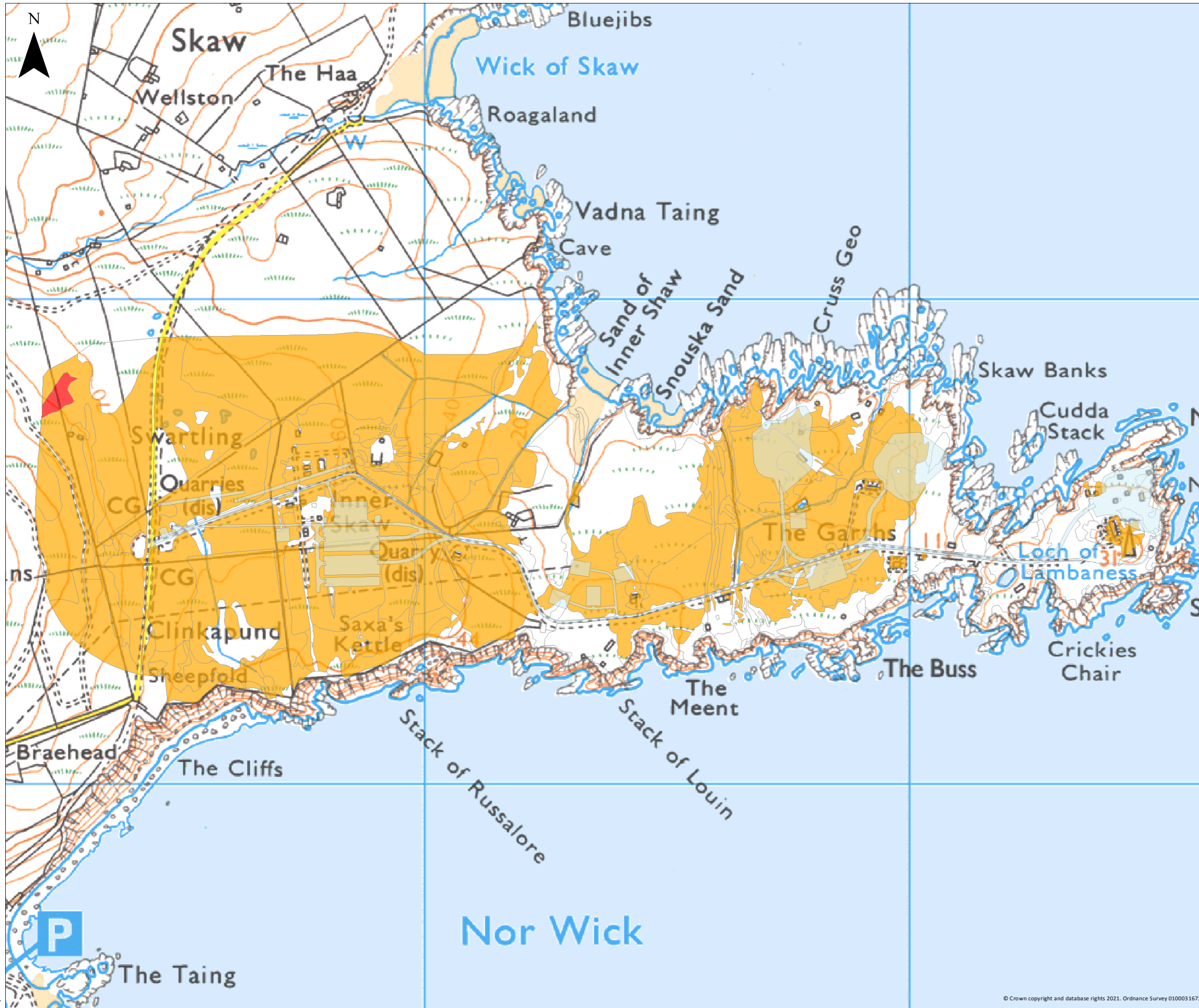
Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 6.4

NVC

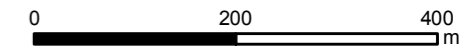


Chapter 6 Drawing 6.5 Potential Ground Water Dependant Terrestrial Ecosystems



KEY

- Infrastructure
- Potentially high GWDTE
- Potentially moderate GWDTE
- Not a GWDTE



Scale 1:7,500 @ A3



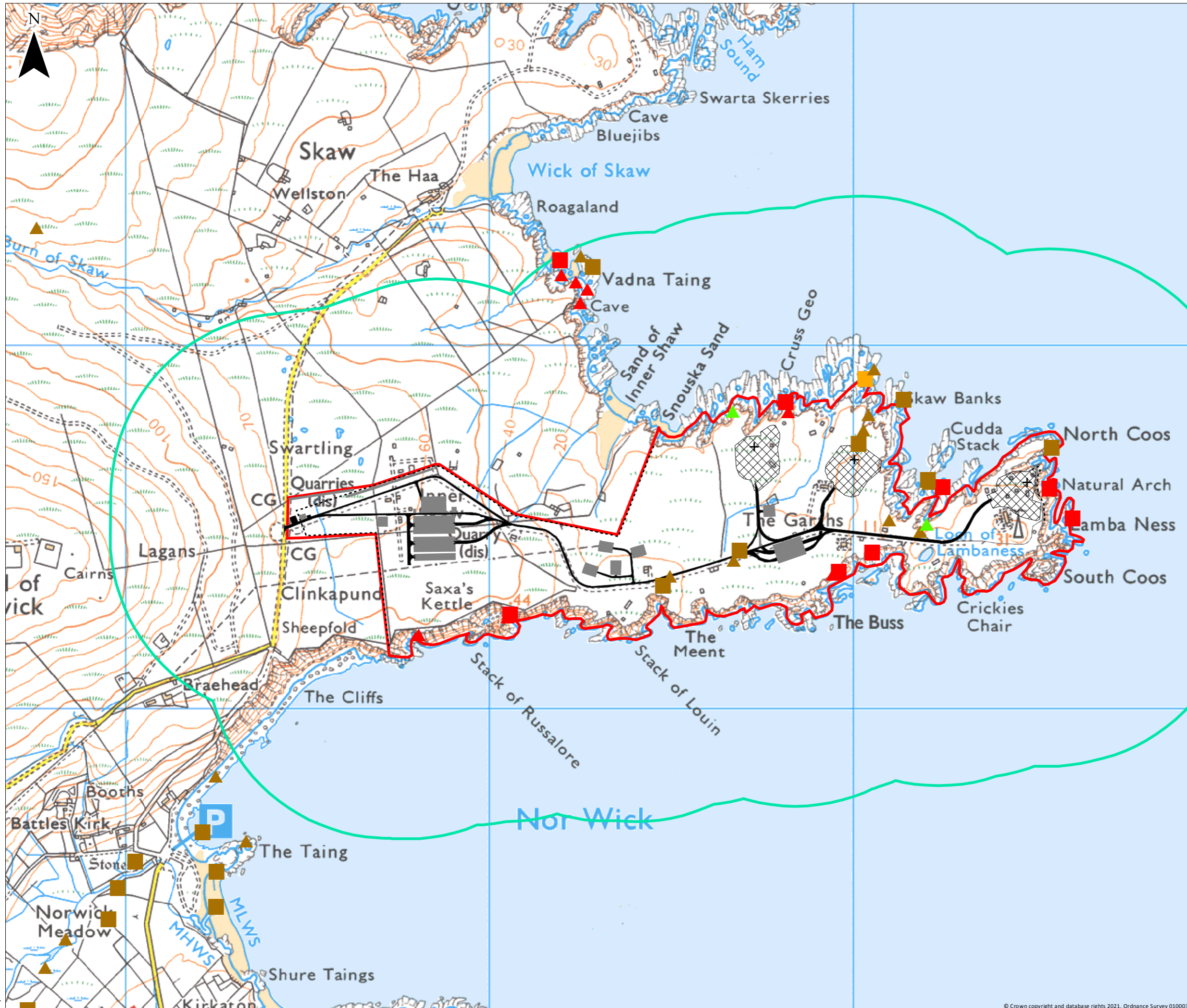
Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 6.5

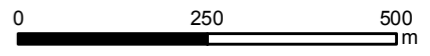
Potential GWDTE

Project Number: 3148

Chapter 6 Drawing 6.6 Otter Signs 2018



- KEY**
- ▲ Holts, spring 2018
 - ▲ Spraints and prints, spring 2018
 - ▲ Run, spring 2018
 - Holt, autumn 2018
 - Lay up, autumn 2018
 - Spraints and prints, autumn 2018
 - + Launch Pad
 - Fence
 - ▨ Fenced Launch Pad Area
 - Building/Infrastructure
 - Road
 - ▭ Proposed Project Site Boundary
 - ▭ Otter Study Area, 500m buffer



Scale 1:10,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 6.6

Otter Signs

Date: 16/11/2021 Drawn by: KM Checked by: RF Version: Draft/V1

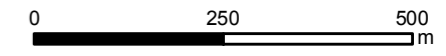
Project Number: 3148

© Crown copyright and database rights 2021. Ordnance Survey 0100031673

Chapter 6 Drawing 6.7 Otter signs 2020



- KEY**
- ▲ Holt
 - ▲ Lay up
 - ▲ Spraints and prints
 - ▲ Run
 - +
 Launch Pad
 - Fence
 - ▣ Fenced Launch Pad Area
 - Building/Infrastructure
 - Road
 - ▣ Proposed Project Site Boundary



Scale 1:10,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 6.7

Otter Signs

Date: 16/11/2021 Drawn by: KM Checked by: RF Version: Draft/V1

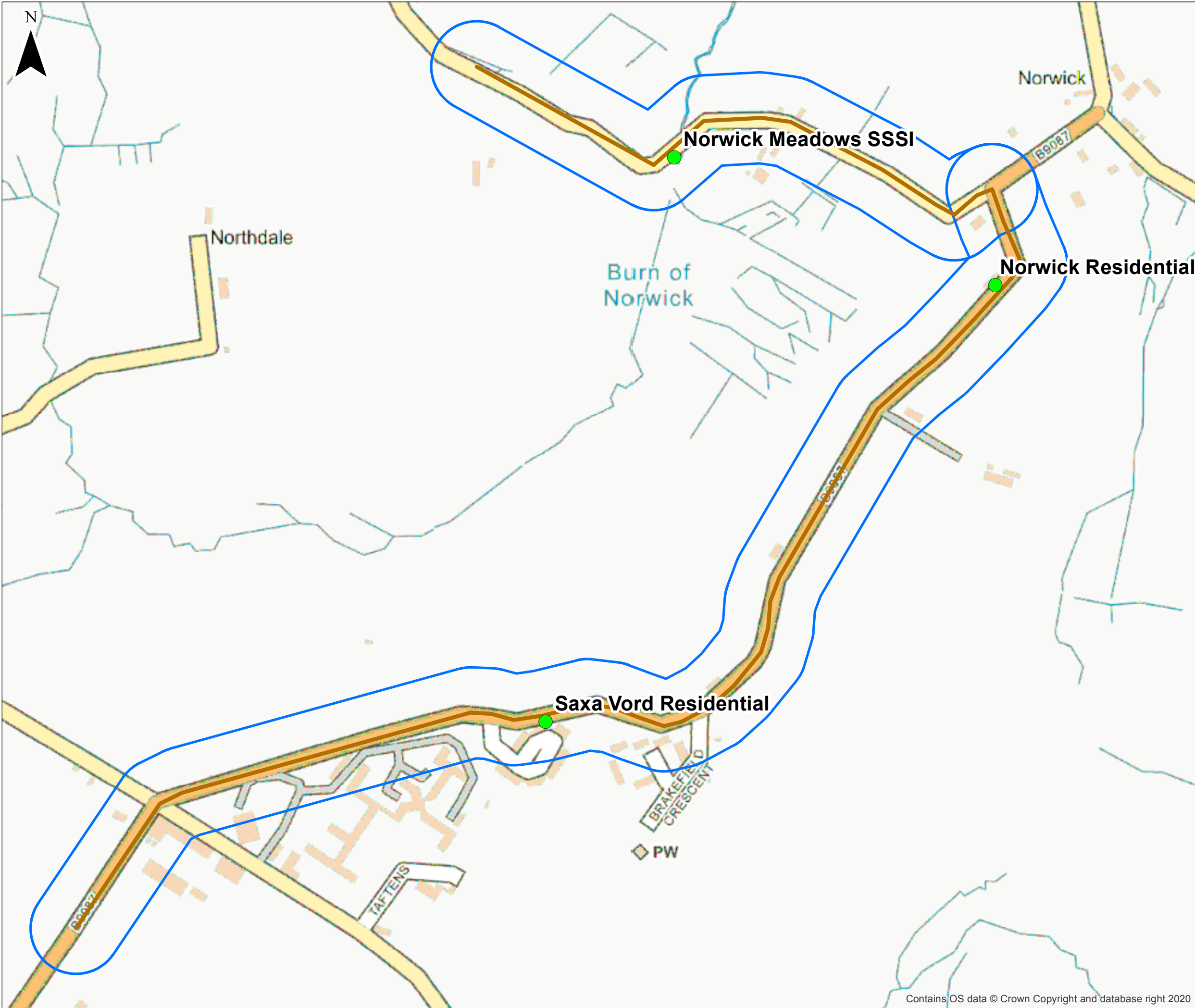
Project Number: 3148

© Crown copyright and database rights 2021. Ordnance Survey 0100031673

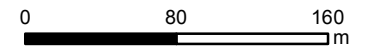


Chapter 7 Drawing 7.1 Modelled Roads and Receptors





- KEY**
- Modelled Receptor
 - Modelled Road Links
 - EZI



Scale 1:4,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

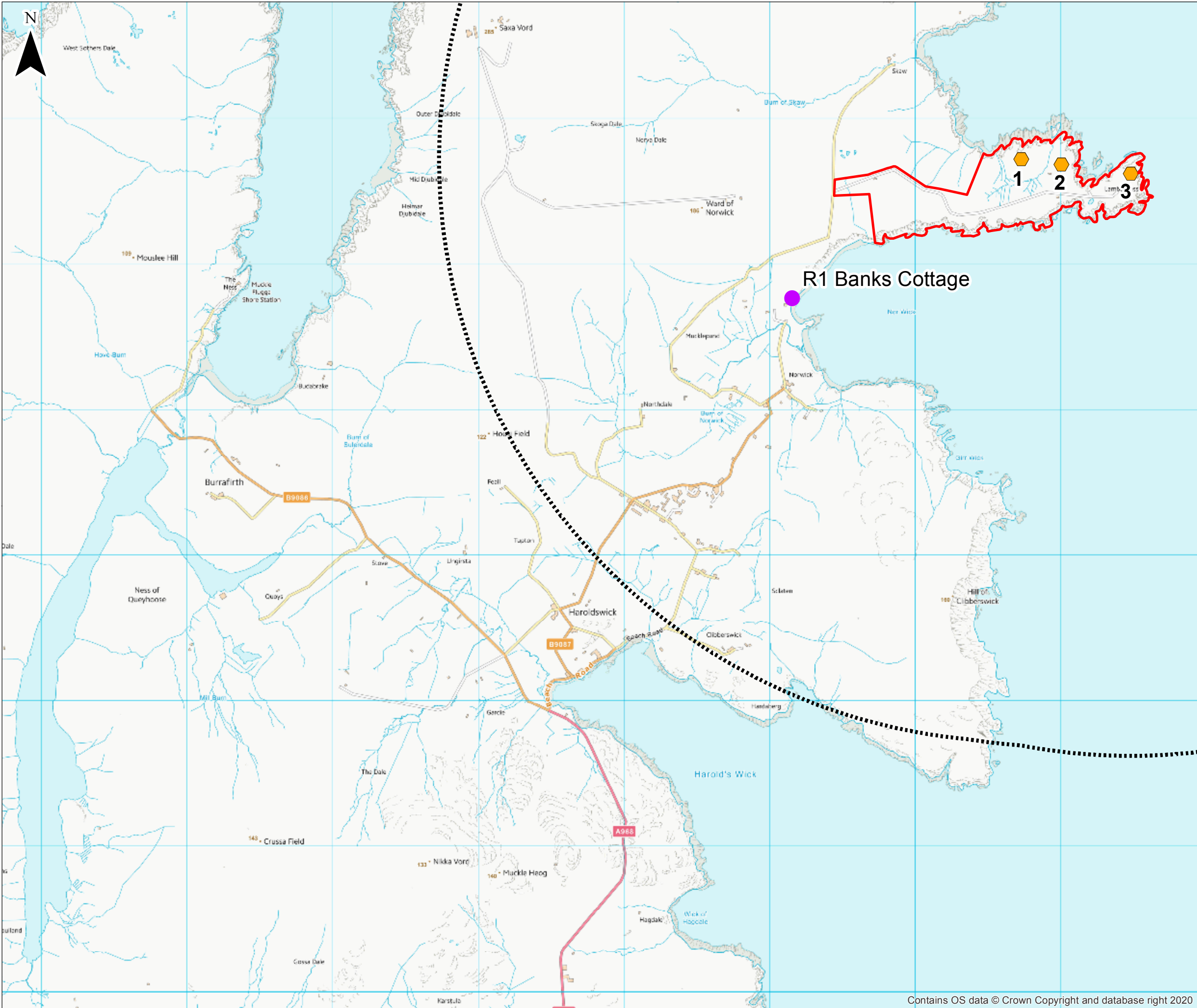
Drawing 7.1

Modelled Roads, Receptors and EZI



Chapter 7 Drawing 7.2 Launch Pad and Receptor Locations





- KEY**
- Proposed Project Boundary
 - EZI
 - Launch Pad - not to scale
 - Residential Receptor



0 0.6 1.2 km

Scale 1:25,000 @ A3

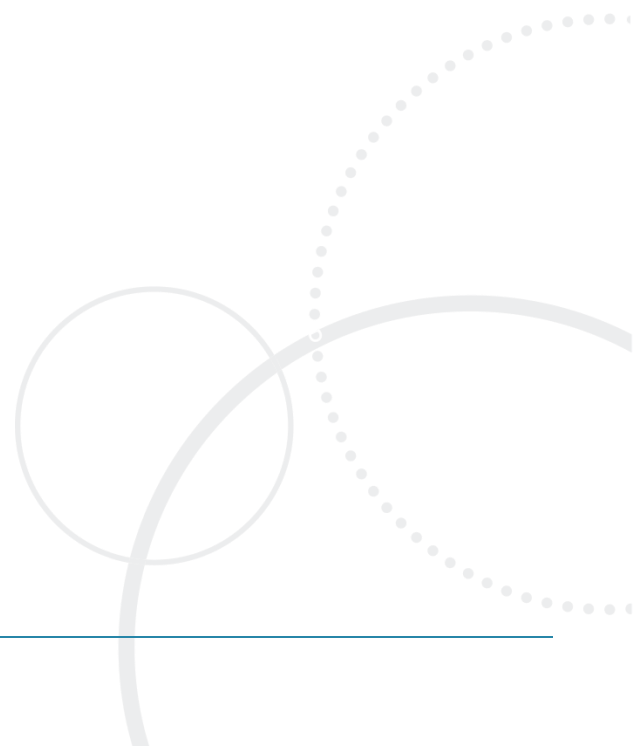


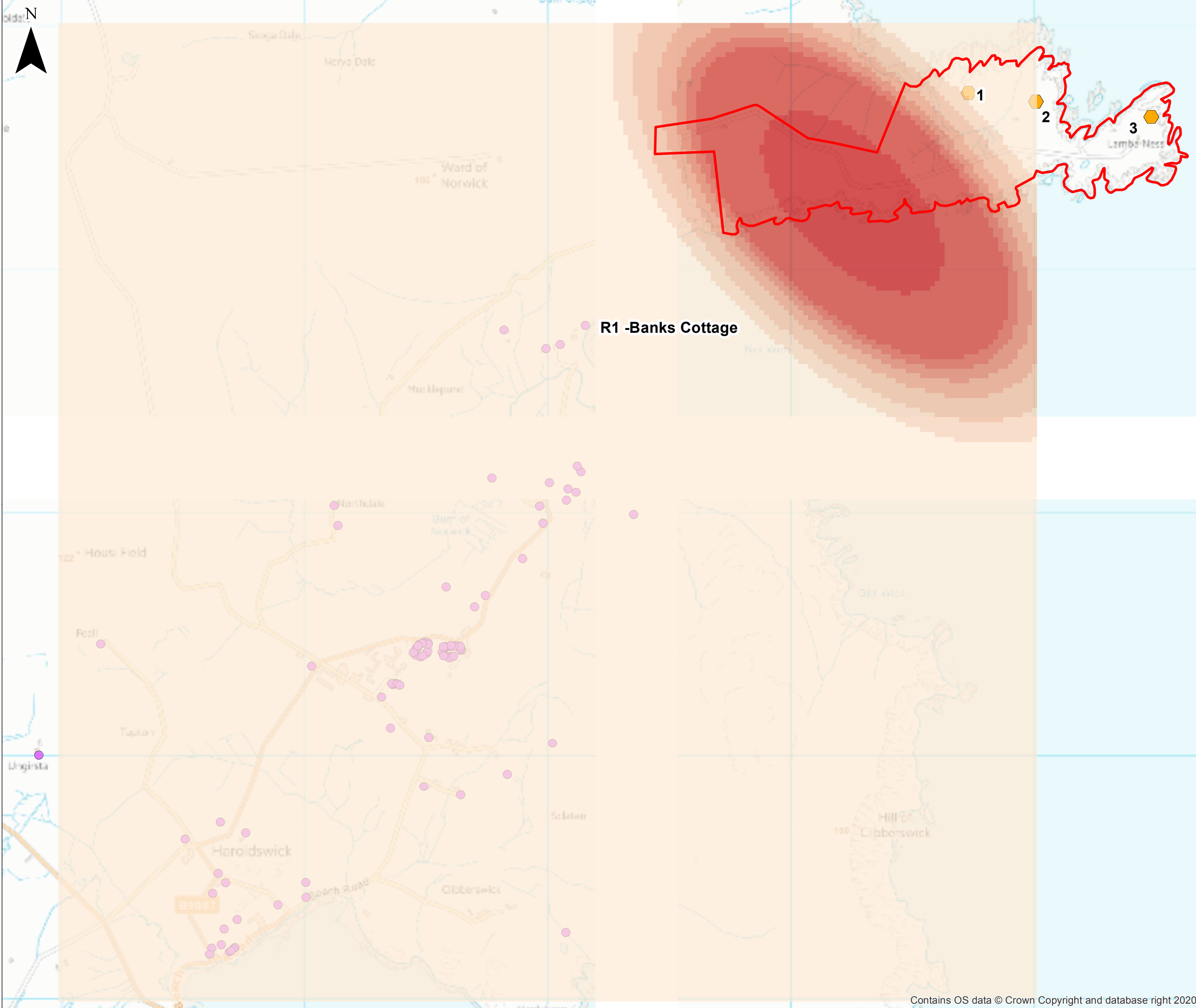
Saxa Vord Spaceport
Assessment of Environmental Effects
Drawing 7.2

**Launch Pads, Buildings,
Receptor Locations and EZI**

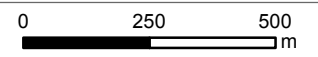
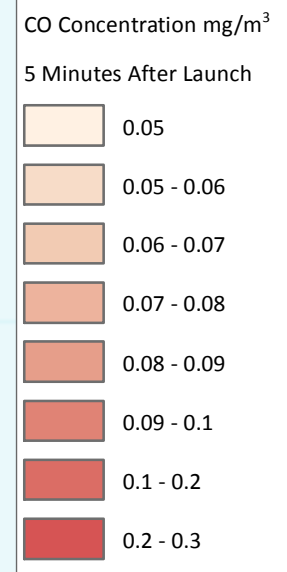


Chapter 7 Drawing 7.3 Launch effects after 5 minutes





- KEY**
- Proposed Project Boundary
 - Launch Pad - not to scale
 - Residential Receptor



Scale 1:15,000 @ A3



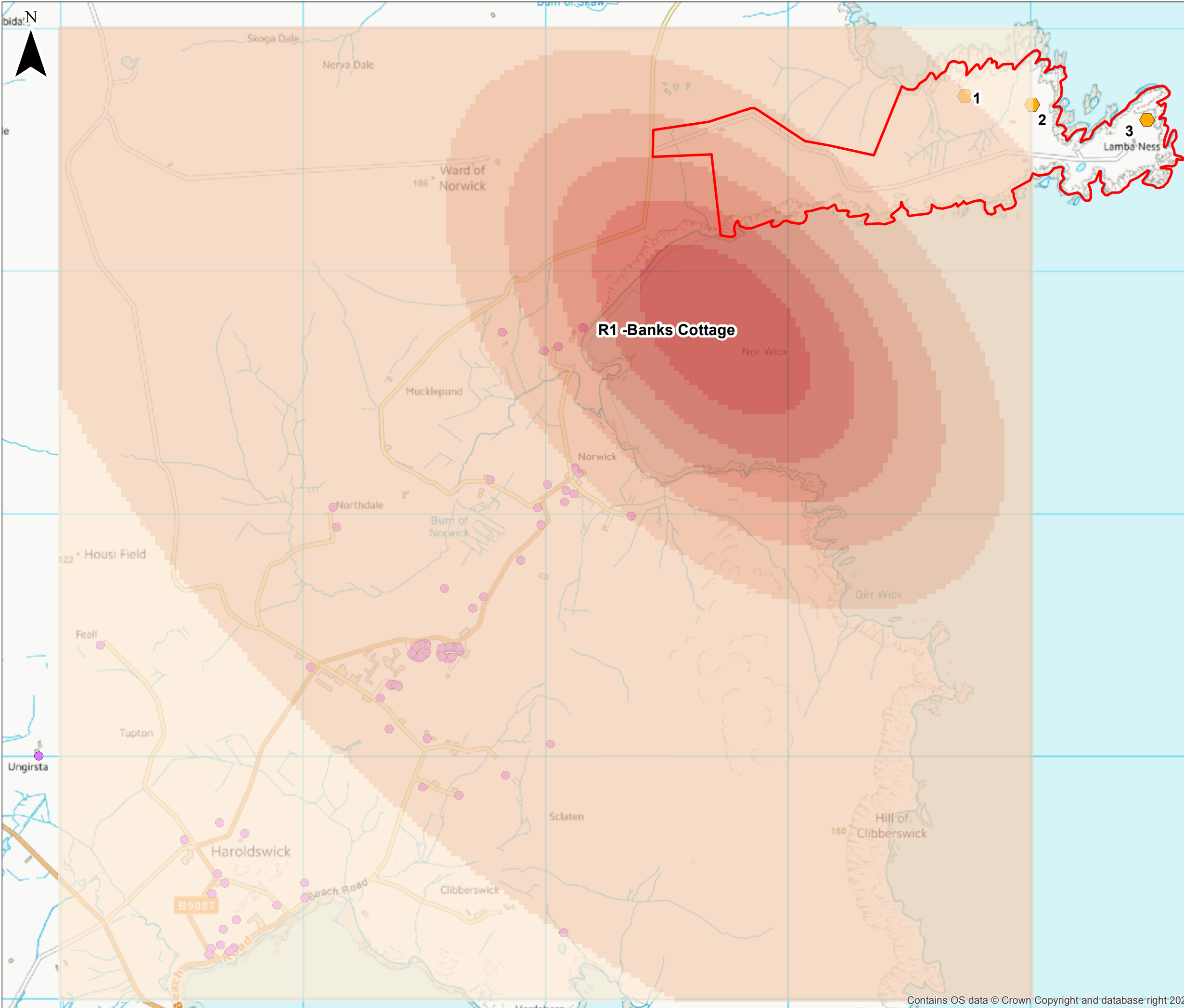
Saxa Vord Spaceport
 Assessment of Environmental Effects

Drawing 7.3
Launch Pad 1 Emission Concentration of CO
5 Minutes After Launch

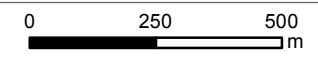
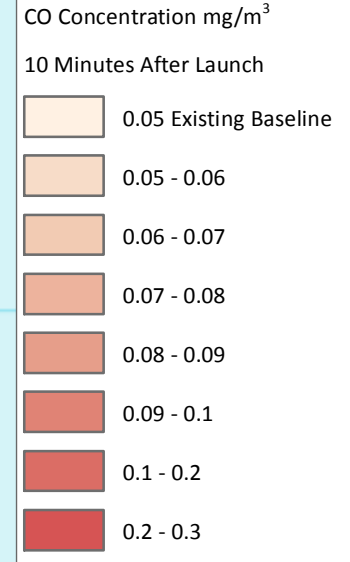


Chapter 7 Drawing 7.4 Launch effects after 10 minutes





- KEY**
- Proposed Project Boundary
 - Launch Pad - not to scale
 - Residential Receptor



Scale 1:15,000 @ A3



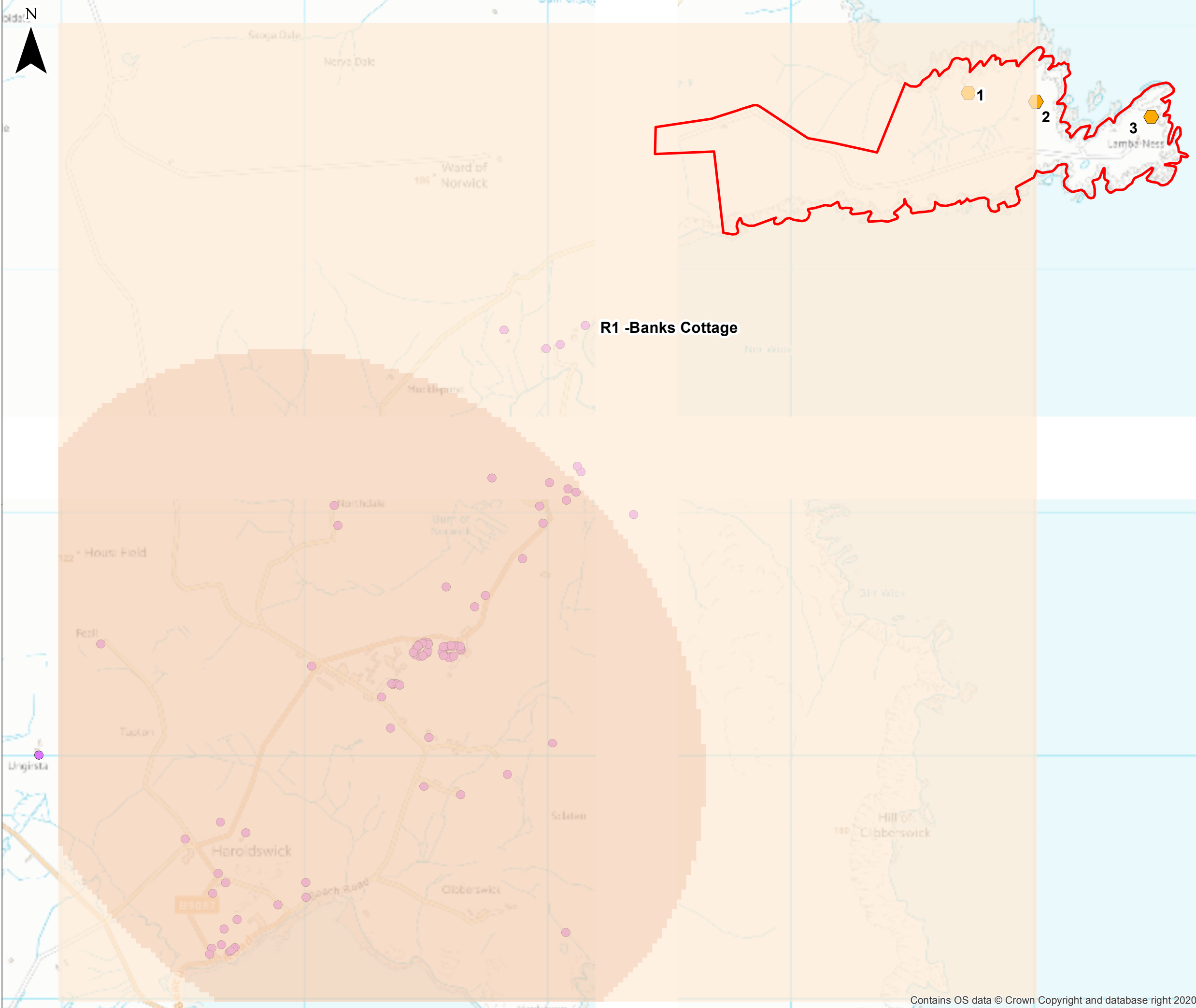
Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 7.4
Launch Pad 1 Emission Concentration of CO
10 Minutes After Launch

Project Number: 4364



Chapter 7 Drawing 7.5 Launch effects after 20 minutes



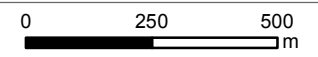
KEY

- Proposed Project Boundary
- Launch Pad - not to scale
- Residential Receptor

CO Concentration mg/m³

20 Minutes After Launch

- 0.05 Existing Baseline
- 0.05 - 0.06
- 0.06 - 0.07
- 0.07 - 0.08
- 0.08 - 0.09
- 0.09 - 0.1
- 0.1 - 0.2
- 0.2 - 0.3



Scale 1:15,000 @ A3



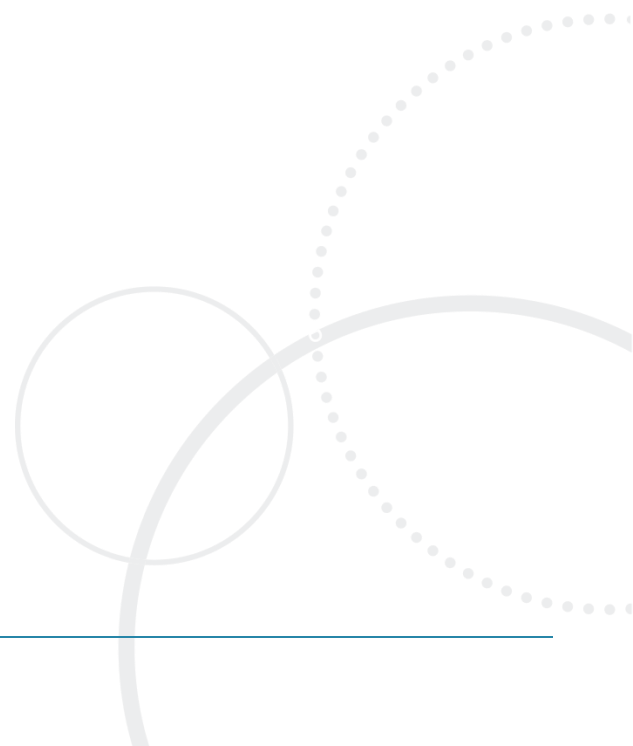
Saxa Vord Spaceport
Assessment of Environmental Effects

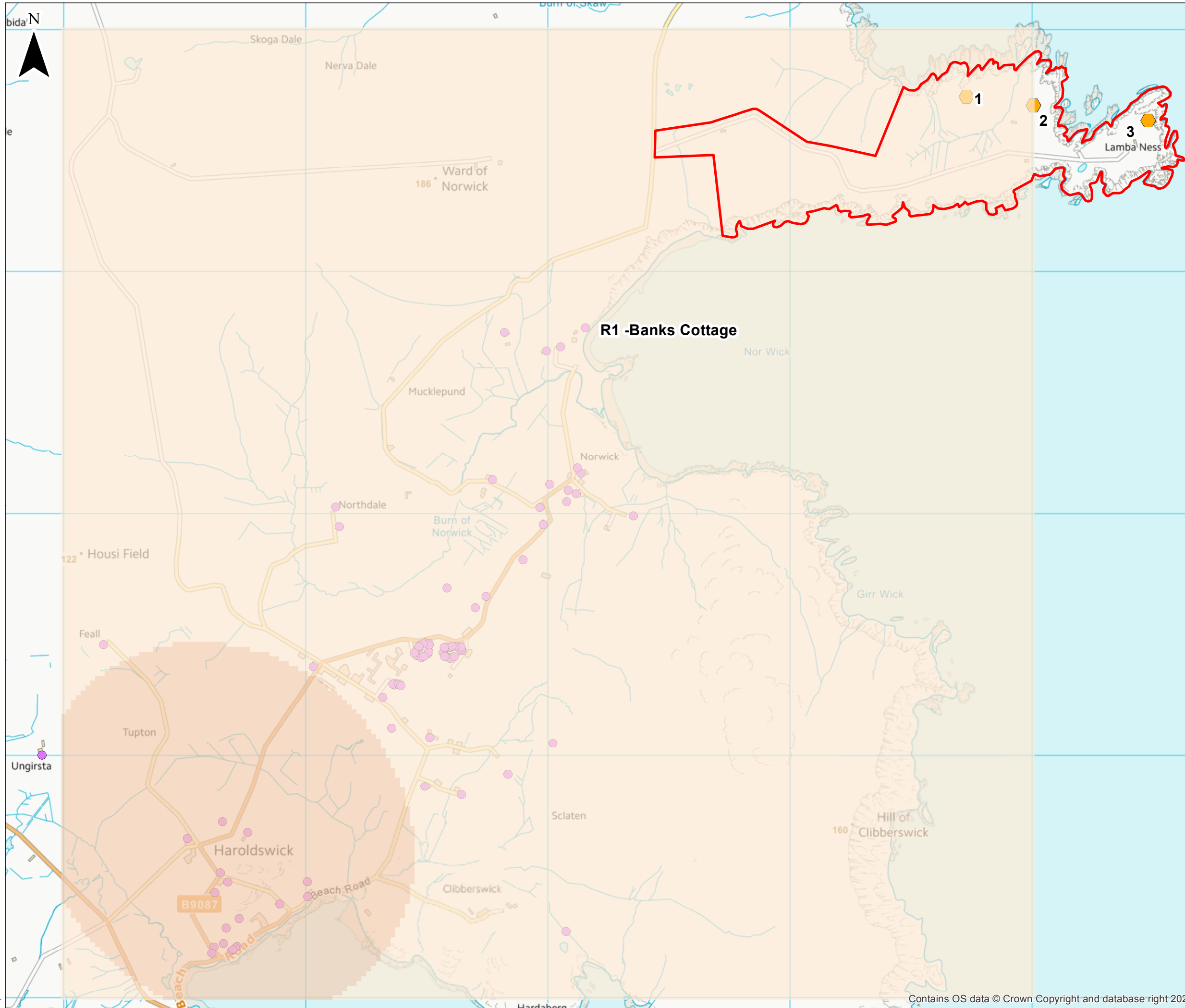
Drawing 7.5
Emission Concentration of CO
20 Minutes After Launch

Project Number: 4364



Chapter 7 Drawing 7.6 Launch effects after 30 minutes





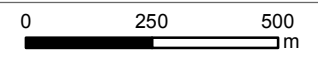
KEY

- Proposed Project Boundary
- Launch Pad - not to scale
- Residential Receptor

CO Concentration mg/m³

30 Minutes After Launch

- 0.05 Existing Baseline
- 0.05 - 0.06
- 0.06 - 0.07
- 0.07 - 0.08
- 0.08 - 0.09
- 0.09 - 0.1
- 0.1 - 0.2
- 0.2 - 0.3



Scale 1:15,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

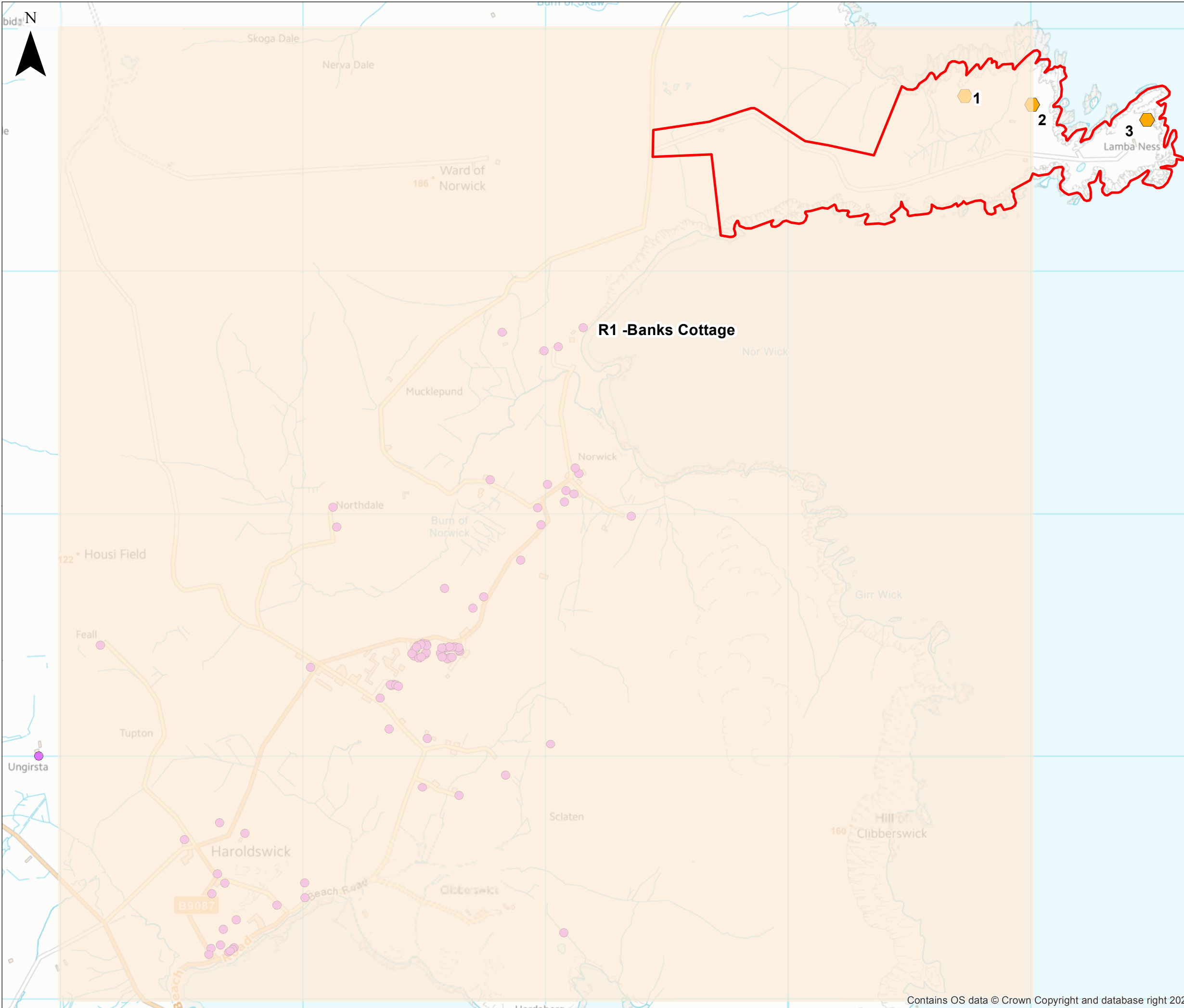
Drawing 7.6
Launch Pad 1 Emission Concentration of CO
30 Minutes After Launch

Project Number: 4364



Chapter 7 Drawing 7.7 Launch effects after 40 minutes





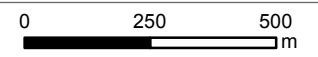
KEY

- Proposed Project Boundary
- Launch Pad - not to scale
- Residential Receptor

CO Concentration mg/m³

40 Minutes After Launch

- 0.05 Existing Baseline
- 0.05 - 0.06
- 0.06 - 0.07
- 0.07 - 0.08
- 0.08 - 0.09
- 0.09 - 0.1
- 0.1 - 0.2
- 0.2 - 0.3



Scale 1:15,000 @ A3



Shetland Space Centre
Air Quality Assessment

Drawing 7.7
Launch Pad 1 Emission Concentration of CO
40 Minutes After Launch

Project Number: 4364