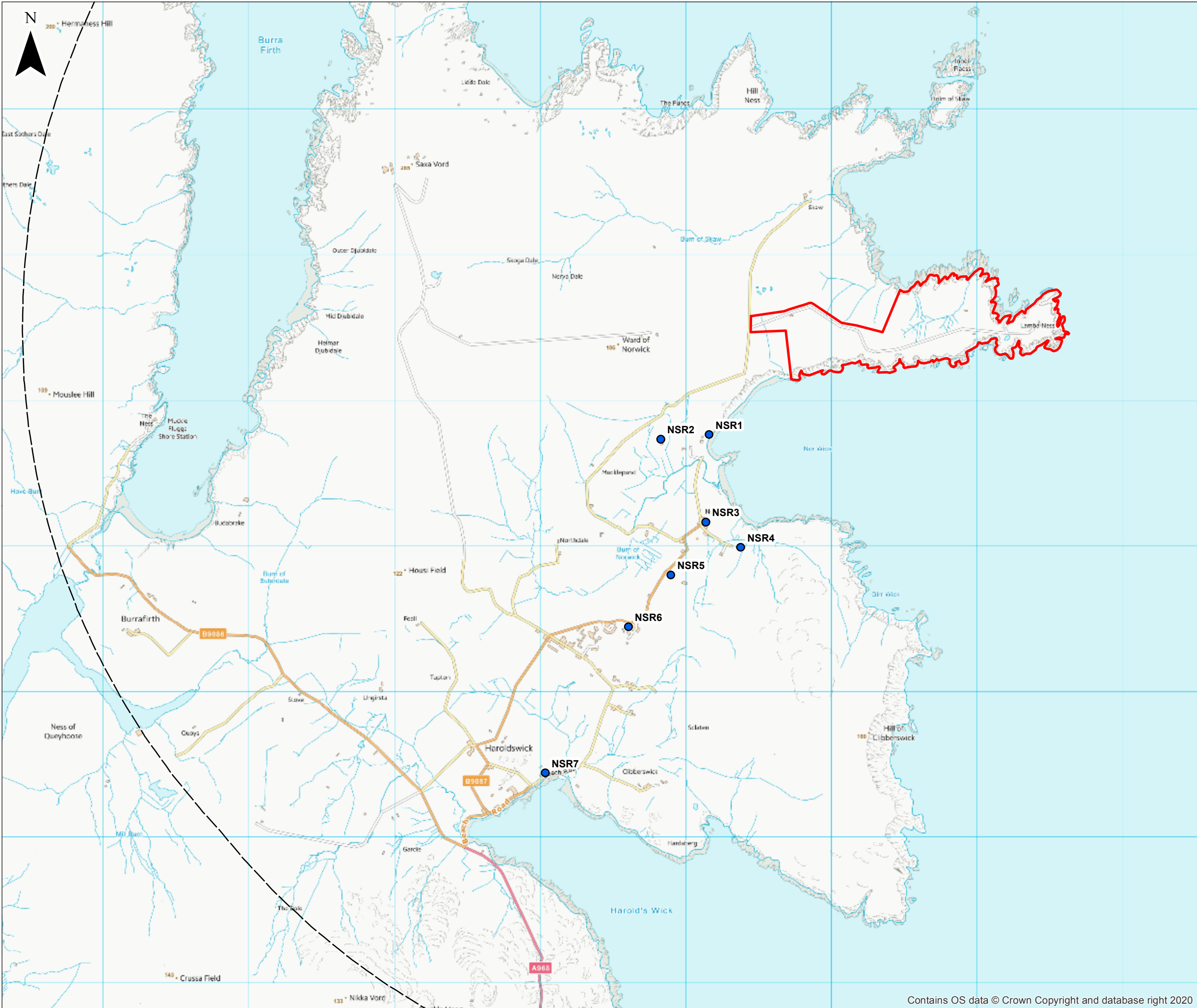


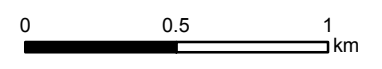


Chapter 8 Drawing 8.1 Study Area and Noise Sensitive Receptors



KEY

- Proposed Project Boundary
- NSRs
- 5km Study Area



Scale 1:25,000 @ A3



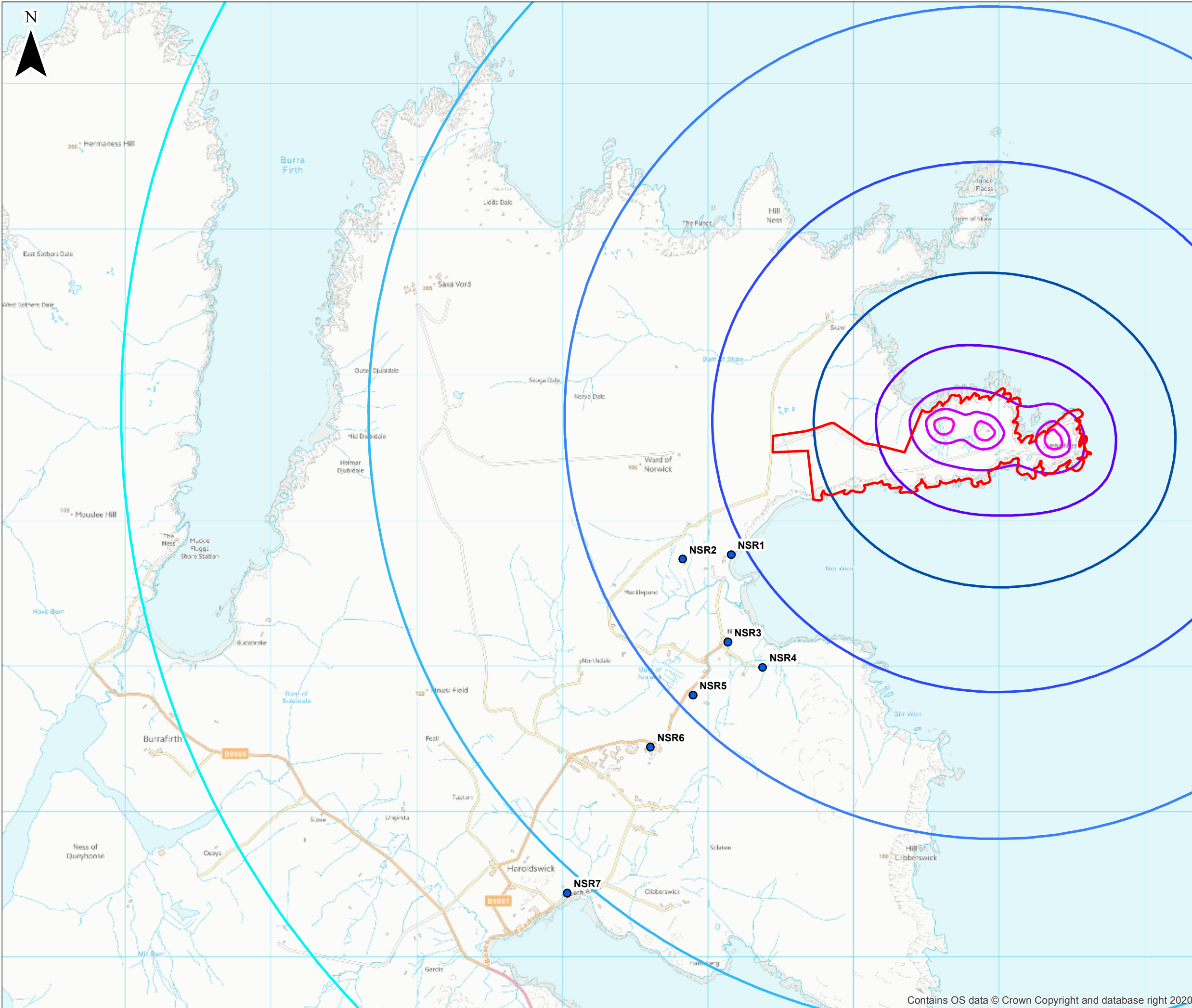
Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 8.1



Study Area and NSRs

Project Number: 4864










Chapter 8 Drawing 8.2 Lden Noise Contours

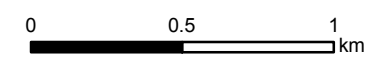


KEY

-  Proposed Project Boundary
-  NSRs

Lden, dBA

-  45
-  50
-  55
-  60
-  65
-  70
-  75
-  80
-  85



Scale 1:25,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

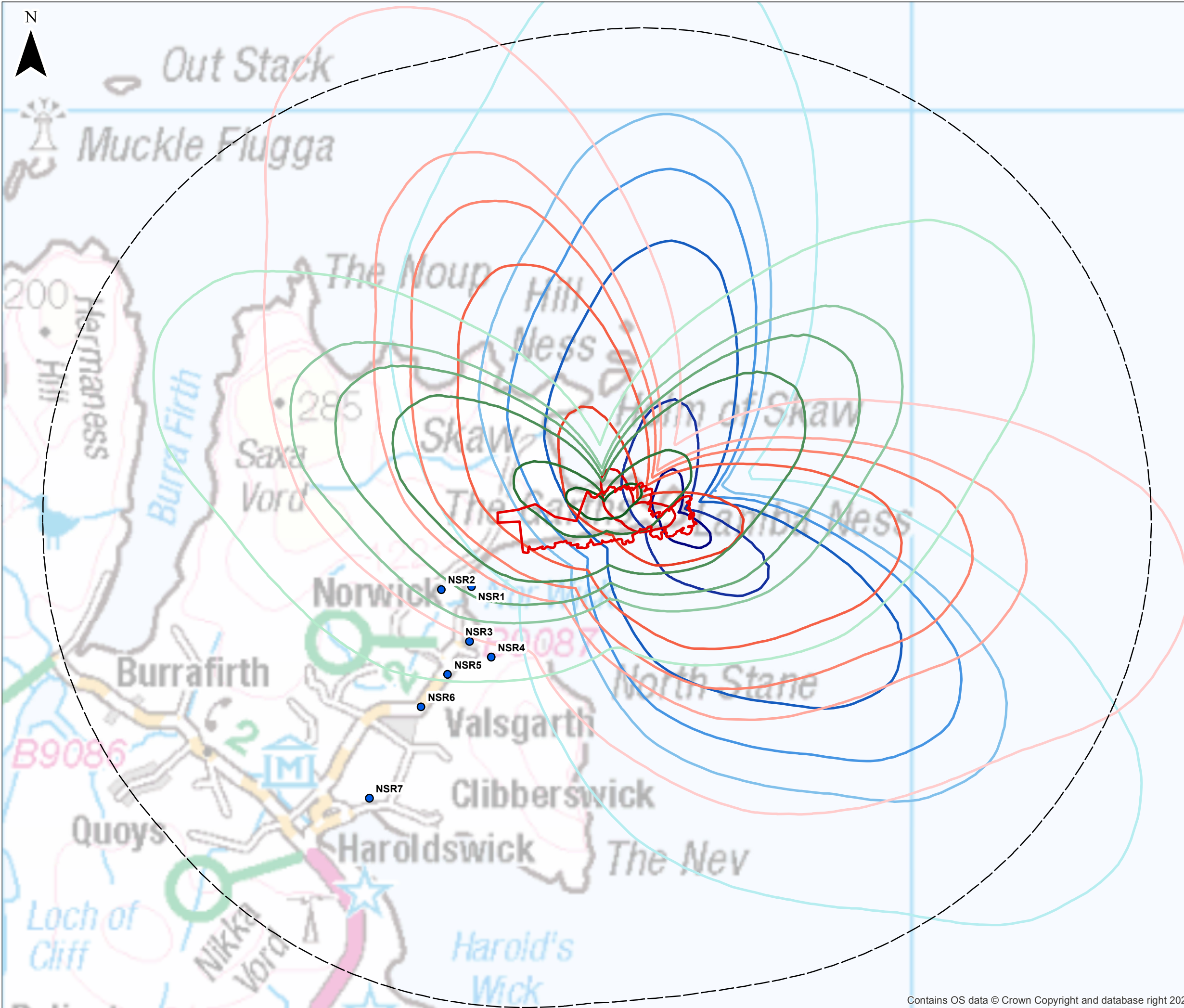
Drawing 8.2

Lden noise contours

Project Number: 4364



Chapter 8 Drawing 8.3 LA_{max}, 1sec Noise Contours - Static Engine Tests



KEY

- Proposed Project Boundary
- NSRs
- 5km Buffer

Pad 1 Static LAmax, dBA

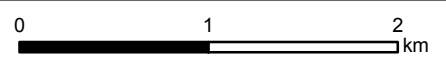
- 80
- 85
- 87
- 90
- 100
- 110

Pad 2 Static LAmax, dBA

- 80
- 85
- 87
- 90
- 100
- 110

Pad 3 Static LAmax, dBA

- 80
- 85
- 87
- 90
- 100
- 110



Scale 1:40,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 8.3

L_{Amax},1sec noise contours - static engine tests

Date: 10/11/2021 Drawn by: GM Checked by: SW Version: v1



Chapter 8 Drawing 8.3a LA_{max}, 1sec Noise Contours - Static Engine Tests - Pad 1



KEY

- Proposed Project Boundary
- NSRs
- 5 km Buffer

Pad 1 Static LAmax, dBA

- 80
- 85
- 87
- 90
- 100
- 110



Scale 1:40,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 8.3a (Pad 1)

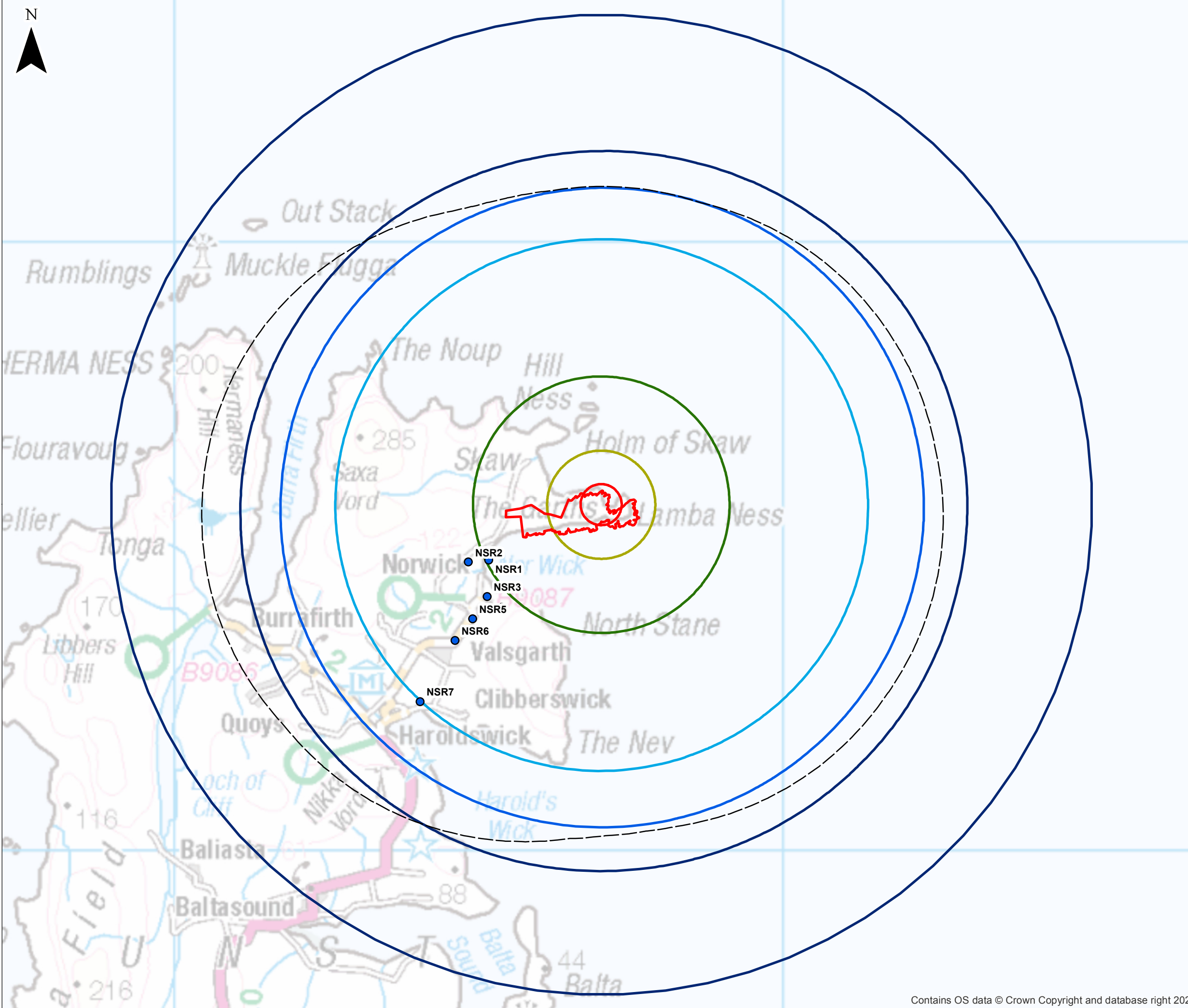
LAmax,1sec noise contours - static engine tests

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| Date: 10/11/2021 | Drawn by: GM | Checked by: SW | Version: v1 |
|------------------|--------------|----------------|-------------|













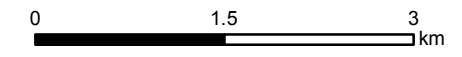
Chapter 8 Drawing 8.3b LA_{max}, 1sec Noise Contours - Static Engine Tests - Pad 2

N



KEY

-  Proposed Project Boundary
 -  NSRs
 -  5km Buffer
- PAd 2 Launch L_{max},dBA
-  80
 -  85
 -  87
 -  90
 -  100
 -  110
 -  120



Scale 1:60,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

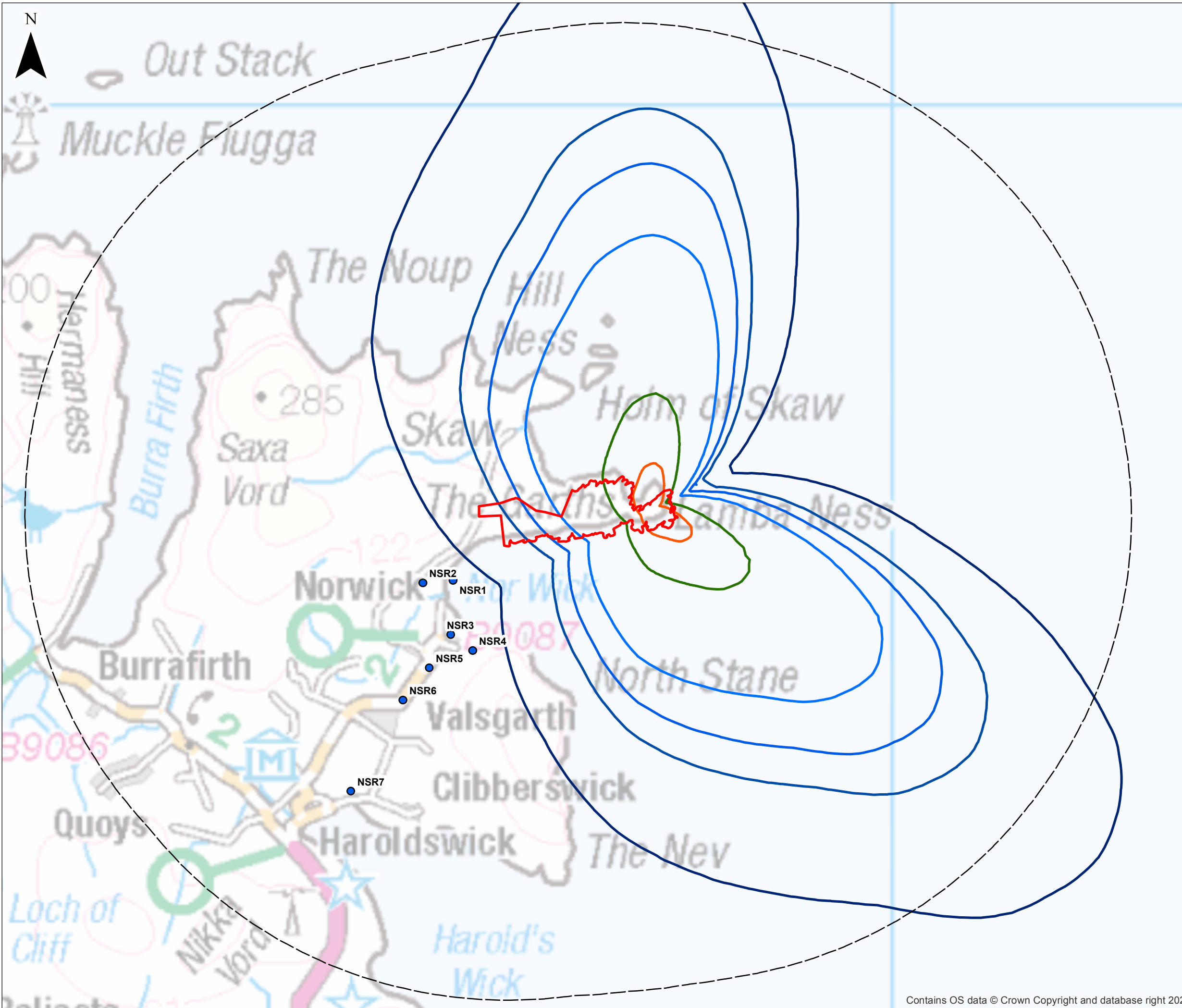
Drawing 8.4b (Pad 2)

L_{max},1sec noise contours - launches

Project Number: 6308



Chapter 8 Drawing 8.3c LA_{max}, 1sec Noise Contours - Static Engine Tests - Pad 3

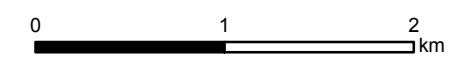


KEY

- Proposed Project Boundary
- NSRs
- 5 km Buffer

Pad 3 Static LAmax, dBA

- 80
- 85
- 87
- 90
- 100
- 110



Scale 1:40,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 8.3c (Pad 3)

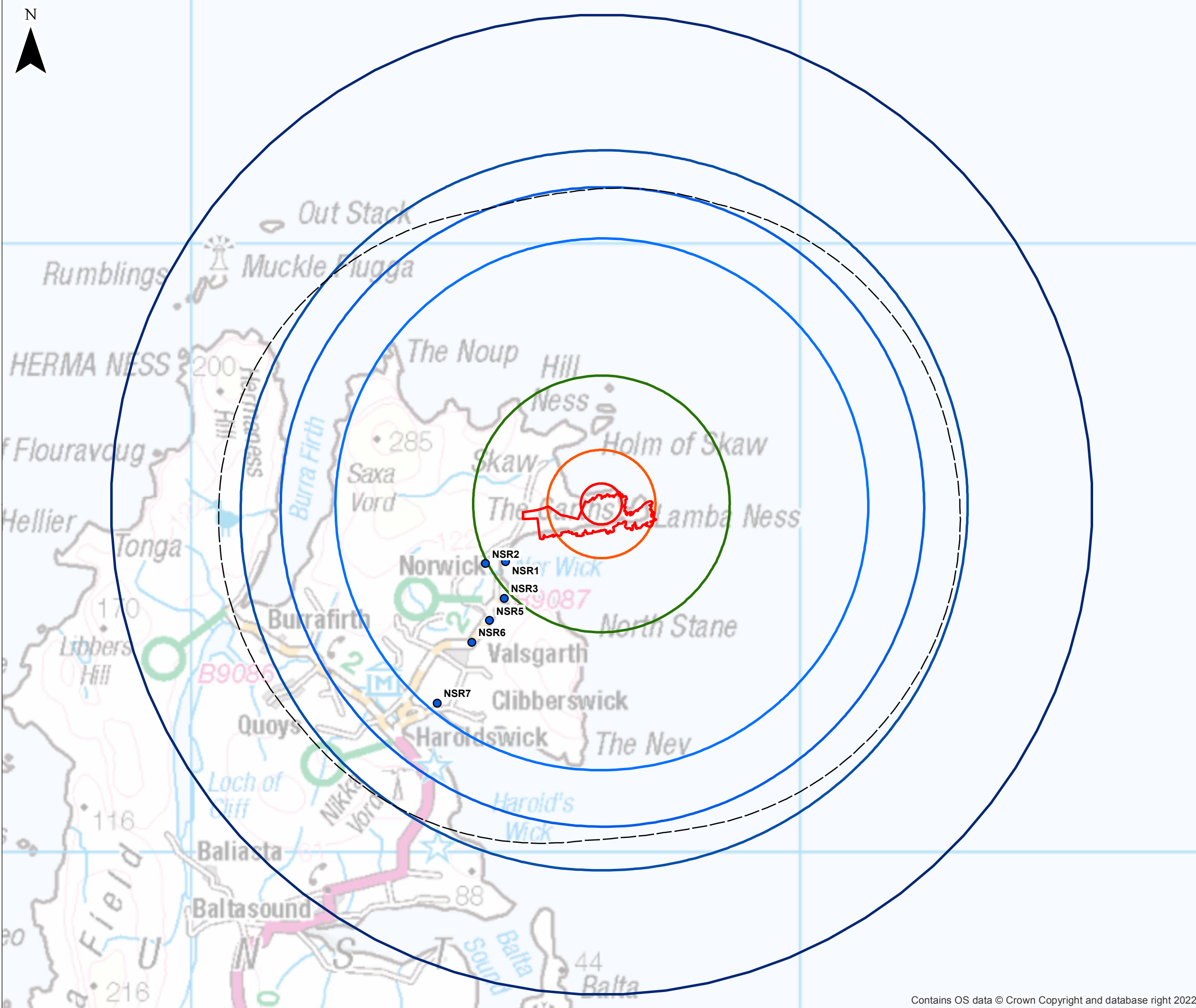
LAmax,1sec noise contours - static engine tests













Chapter 8 Drawing 8.4a LAmax, 1sec Noise Contours - Launches

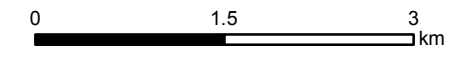


N



KEY

-  Proposed Project Boundary
 -  NSRs
 -  5km Buffer
- Pad 1 Launch LAmax, dBA
-  80
 -  85
 -  87
 -  90
 -  100
 -  110
 -  120



Scale 1:60,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 8.4a (Pad 1)

LAm_{ax},1sec noise contours - launches

Project Number: 6308

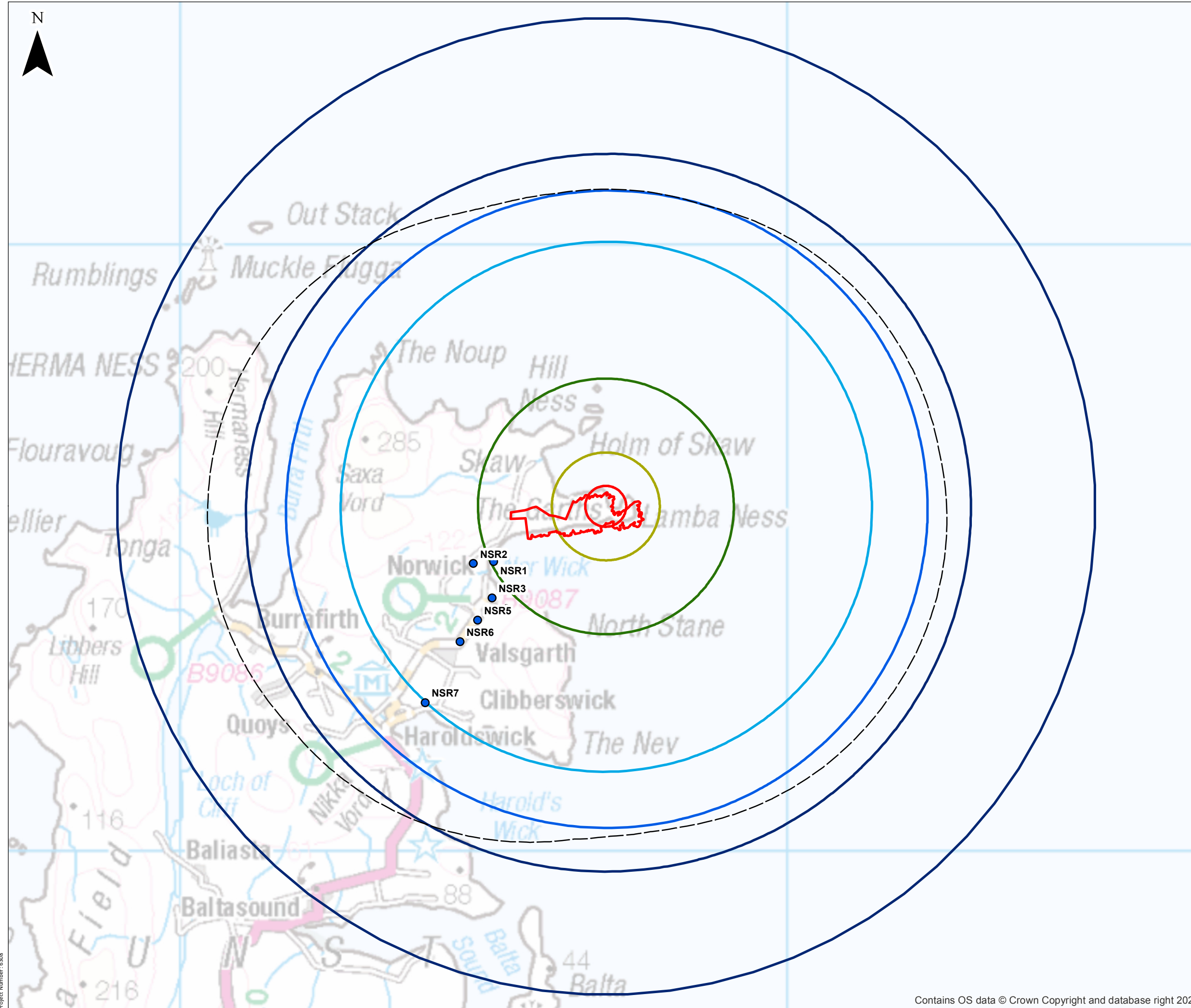
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| Date: 19/05/2023 | Drawn by: ES | Checked by: SW | Version: v2 |
|------------------|--------------|----------------|-------------|













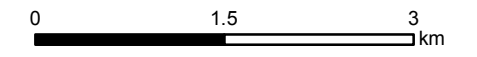
Chapter 8 Drawing 8.4b LAmax, 1sec Noise Contours - Launches - Pad 2

N



KEY

-  Proposed Project Boundary
 -  NSRs
 -  5km Buffer
- PA2 Launch L_{Amax},dBA
-  80
 -  85
 -  87
 -  90
 -  100
 -  110
 -  120



Scale 1:60,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 8.4b (Pad 2)

L_{Amax},1sec noise contours - launches

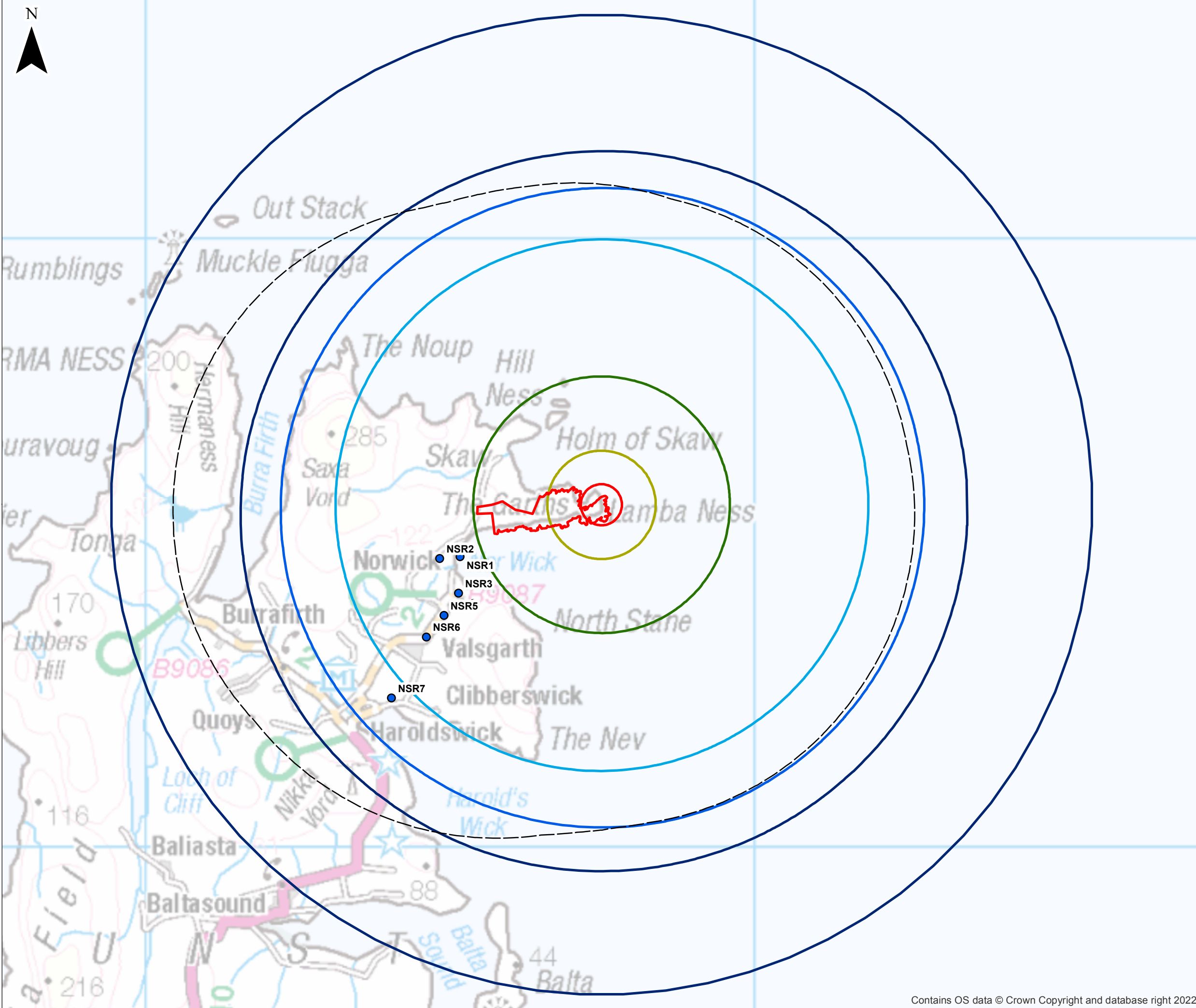
Project Number: 6308

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|------------------|--------------|----------------|-------------|
| Date: 19/05/2023 | Drawn by: ES | Checked by: SW | Version: v2 |
|------------------|--------------|----------------|-------------|



Chapter 8 Drawing 8.4c LAmax, 1sec Noise Contours - Launches - Pad 3

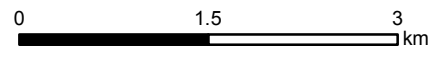


KEY

- Proposed Project Boundary
- NSRs
- 5km Buffer

PAd 3 Launch L_{Amax}, dBA

- 80
- 85
- 87
- 90
- 100
- 110
- 120



Scale 1:60,000 @ A3



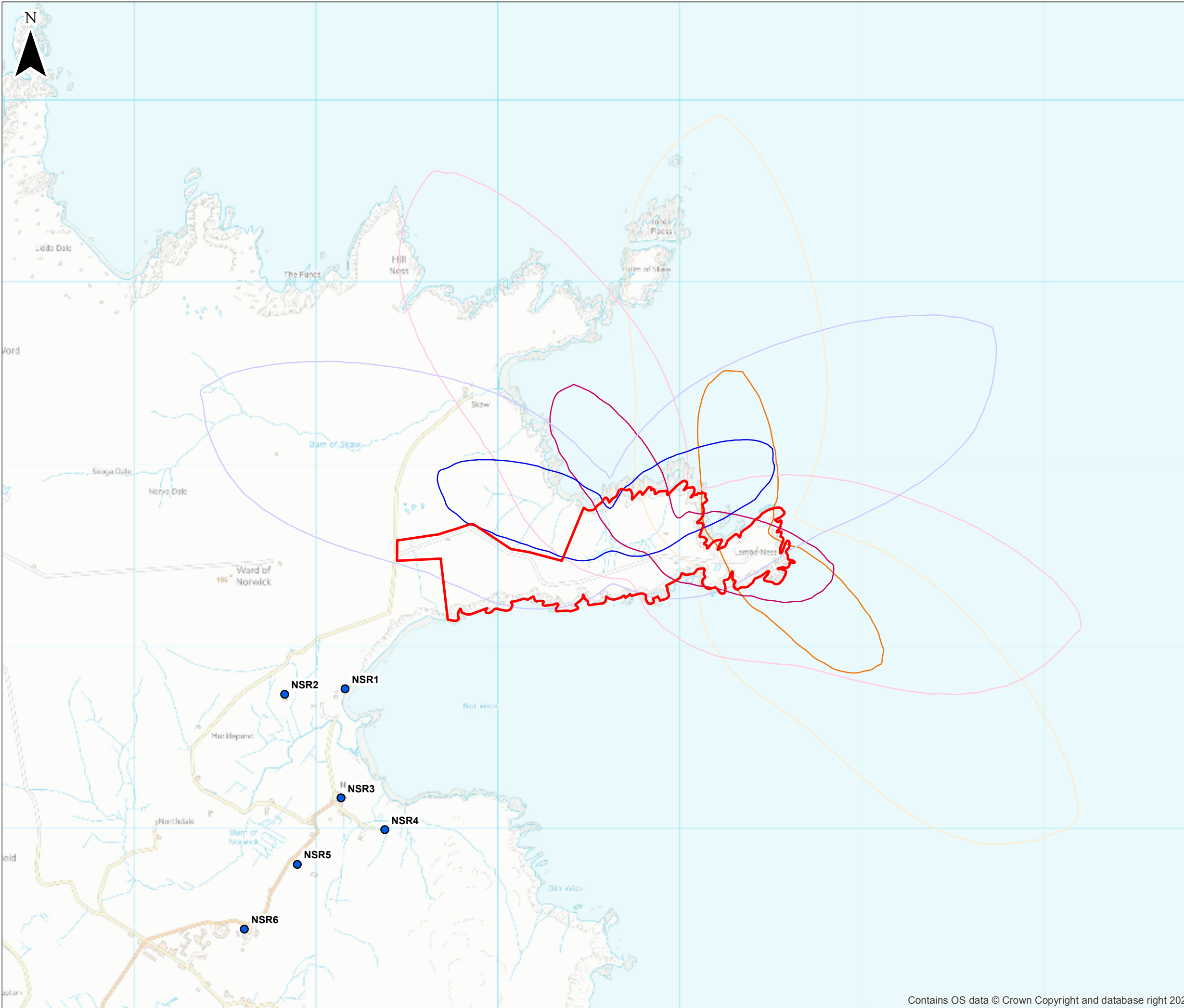
Saxa Vord Spaceport
Assessment of Environmental Effects
Drawing 8.4c (Pad 3)

L_{Amax},1sec noise contours - launches



Project Number: 6308





Chapter 8 Drawing 8.5 Predicted Unweighted Lmax noise contours for Static Engine Tests





KEY

-  Proposed Project Boundary
-  NSRs



Pad 1 Static Lmax, dB

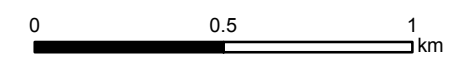
-  111
-  120

Pad 2 Static Lmax, dB

-  111
-  120

Pad 3 Static Lmax, dB

-  111
-  120



Scale 1:20,000 @ A3



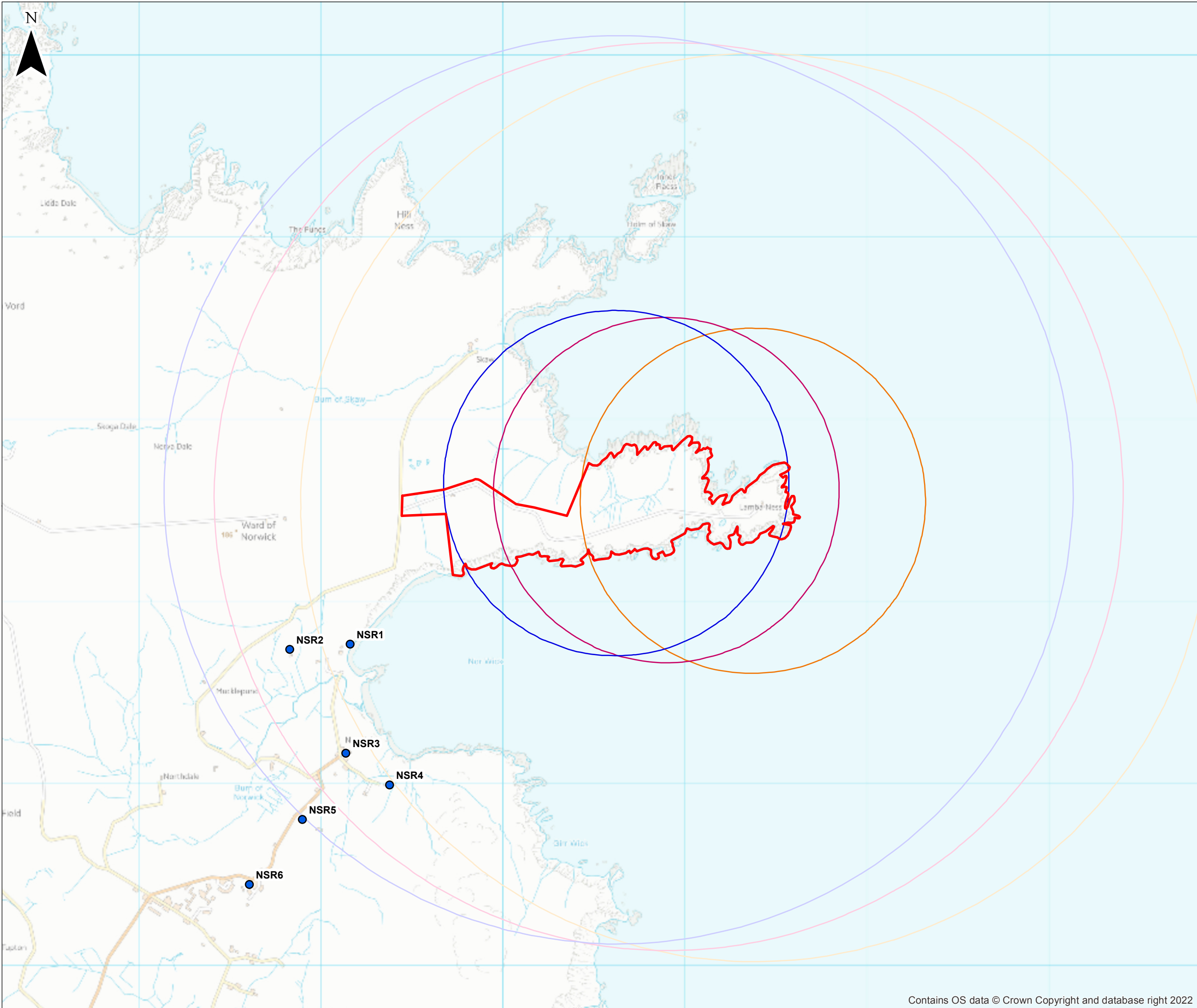
Saxa Vord Spaceport
Environmental of Environmental Effects

Drawing 8.5
Predicted Unweighted Lmax Noise
Contours for Static Engine Tests



Project Number: 6308





Chapter 8 Drawing 8.6 Predicted Unweighted Lmax noise contours for Launch Events





KEY

-  Proposed Project Boundary
-  NSRs



Pad 1 Launch Lmax, dB

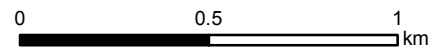
-  111
-  120

Pad 2 Launch Lmax, dB

-  111
-  120

Pad 3 Launch Lmax, dB

-  111
-  120



Scale 1:20,000 @ A3

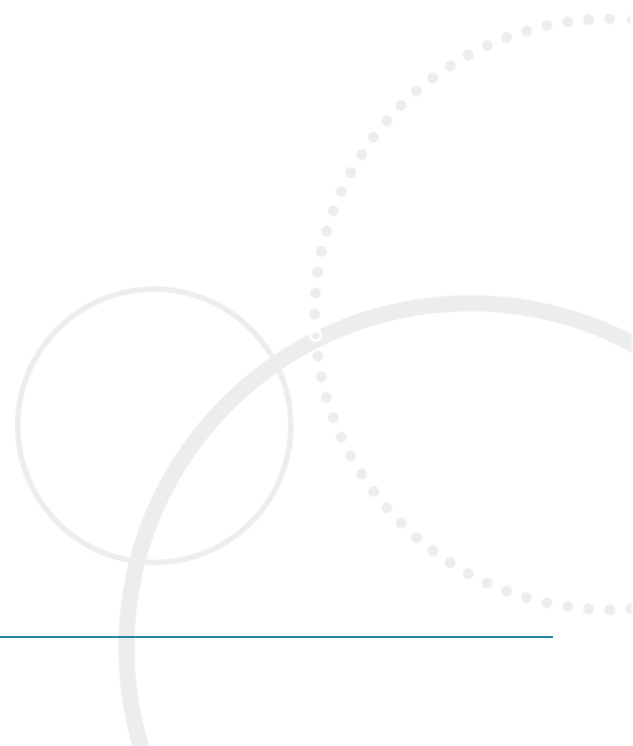


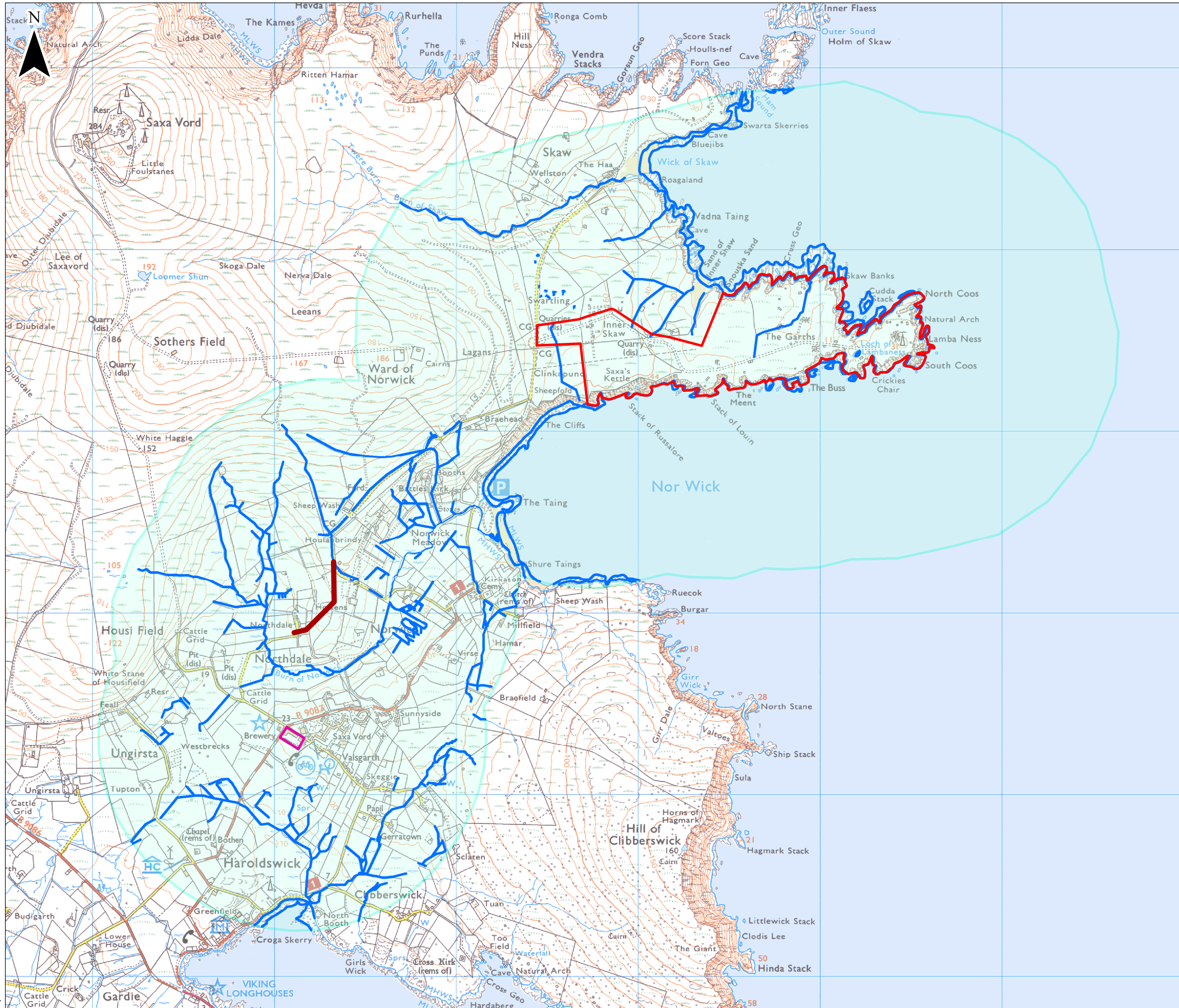
Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 8.6
Predicted Unweighted Lmax Noise
Contours for launch events



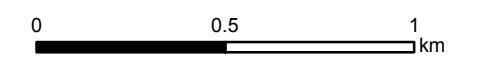
Chapter 9 Drawing 9.1 Study Area and Watercourses





KEY

- Proposed Project Boundary
- New Section of Access Road
- Launch and Range Control Centre Boundary
- Hydrology Study Area
- Watercourse
- Water Body



Scale 1:20,000 @ A3



Saxa Vord Spaceport
Assessment of Environmental Effects

Drawing 9.1
Hydrology Study Area and Watercourses

| | | | |
|------------------|--------------|----------------|-------------|
| Date: 04/12/2020 | Drawn by: JH | Checked by: RF | Version: v1 |
|------------------|--------------|----------------|-------------|

Project Number: 3148