

# Chapter 9 Geology and Contamination

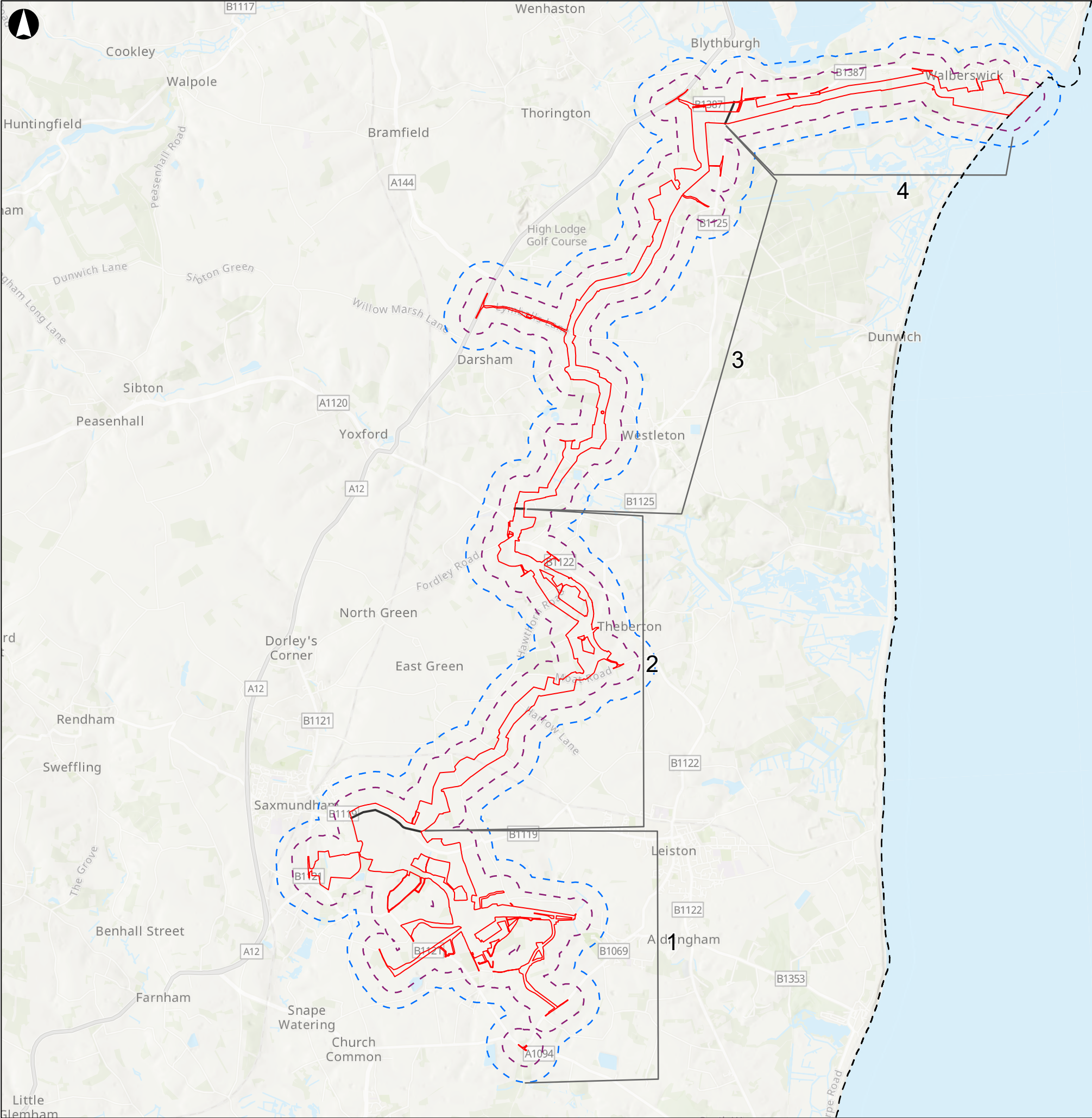
Figure 9.1 Study Area

Figure 9.2 Superficial Geology

Figure 9.3 Solid Geology and Ground Investigation Locations

Figure 9.4 Environmental Receptors

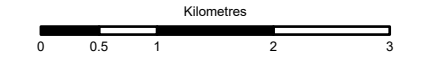
Figure 9.5 Potentially Contaminated Land



- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area 250m
- Study Area 500m
- Study Area Subsection

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Drawing Title

Figure 9.1 Study Area

Scale at A3

1:65,000

Role

Environment

Suitability

S2

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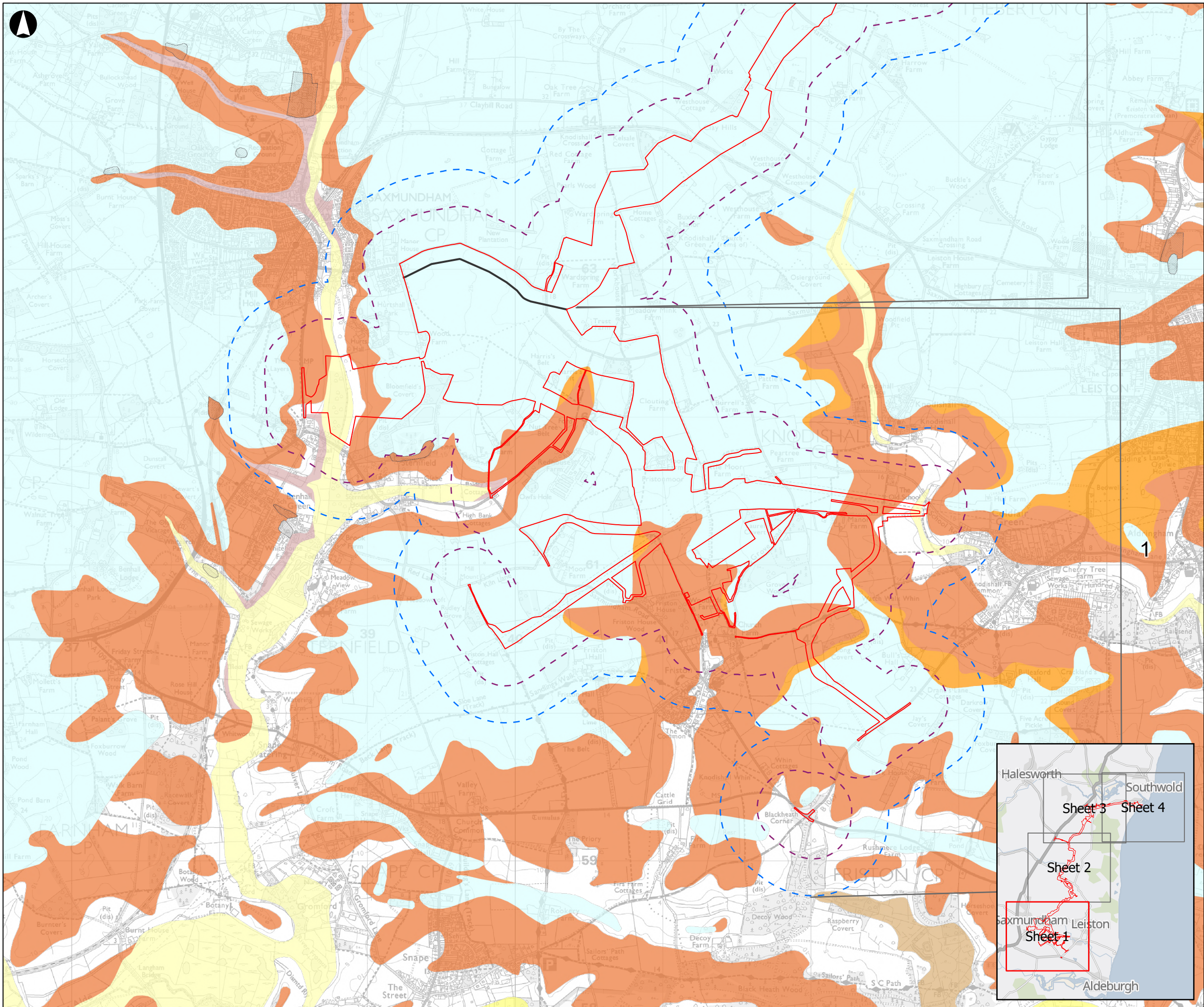
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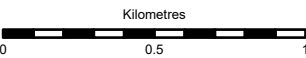
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A3



- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 500m
- Study Area 250m
- Superficial Deposits
  - PEAT
  - ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
  - HEAD - CLAY, SILT, SAND AND GRAVEL
  - TIDAL FLAT DEPOSITS - CLAY AND SILT
  - LOWESTOFT FORMATION - DIAMICTON
  - LOWESTOFT FORMATION - SAND AND GRAVEL
  - MARINE BEACH DEPOSITS - SAND AND GRAVEL
  - LOWESTOFT FORMATION - CLAY AND SILT
  - RIVER TERRACE DEPOSITS - SAND AND GRAVEL
- Made Ground
  - Infilled Ground
  - Landscaped Ground
  - Worked Ground
  - Disturbed Ground

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Figure 9.2 Superficial Geology - Sheet 1

Scale at A3

1:25,000

Role

Environment

Suitability

S2

Project Number

287334-00

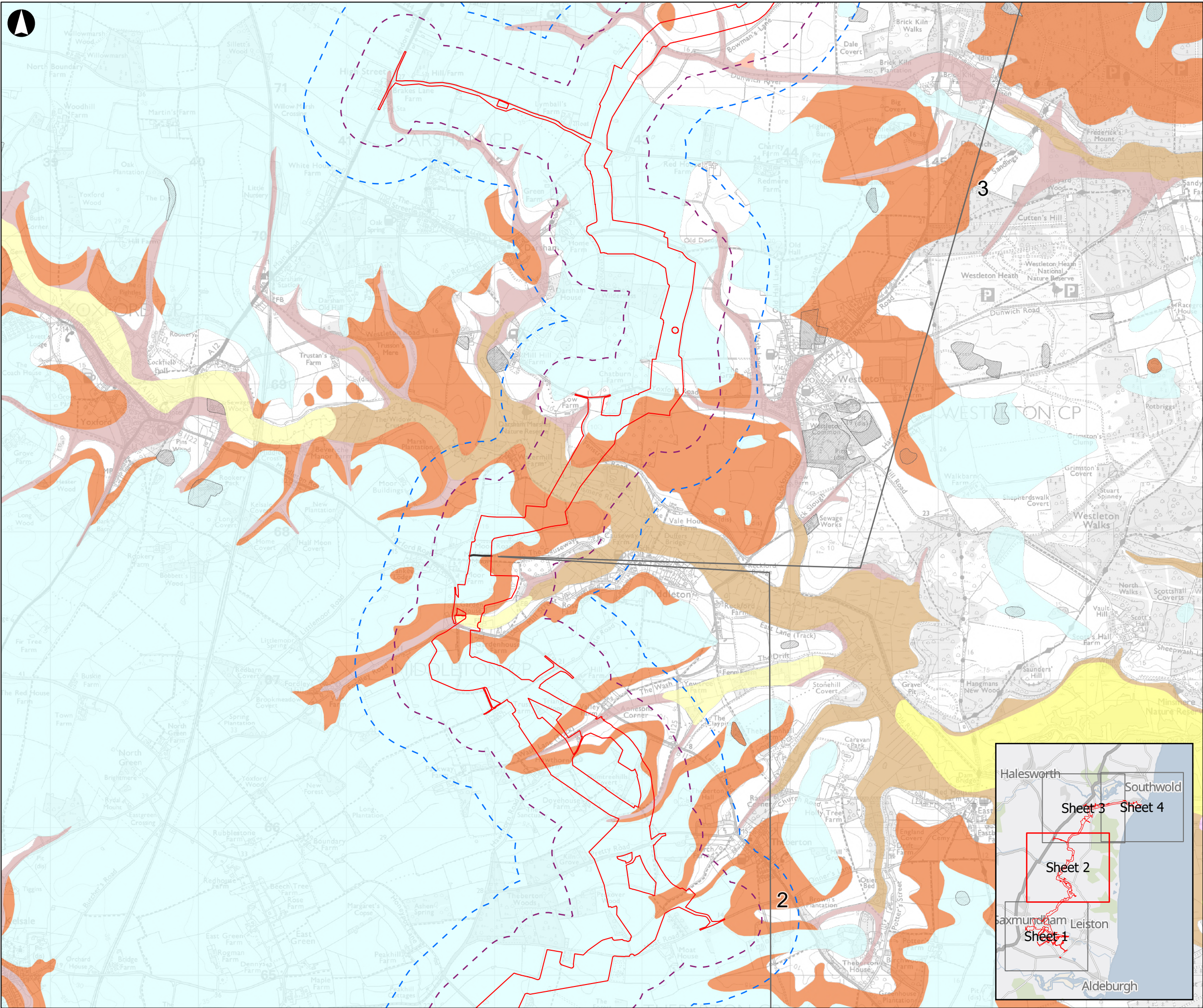
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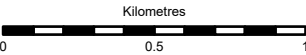
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A3



- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 500m
- Study Area 250m
- Superficial Deposits
- PEAT
  - ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
  - HEAD - CLAY, SILT, SAND AND GRAVEL
  - TIDAL FLAT DEPOSITS - CLAY AND SILT
  - LOWESTOFT FORMATION - DIAMICTON
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  - Disturbed Ground

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Figure 9.2 Superficial Geology - Sheet 2

Scale at A3

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Role

Environment

Suitability

S2

Project Number

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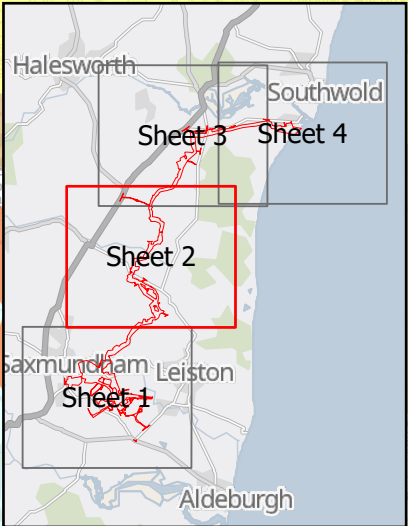
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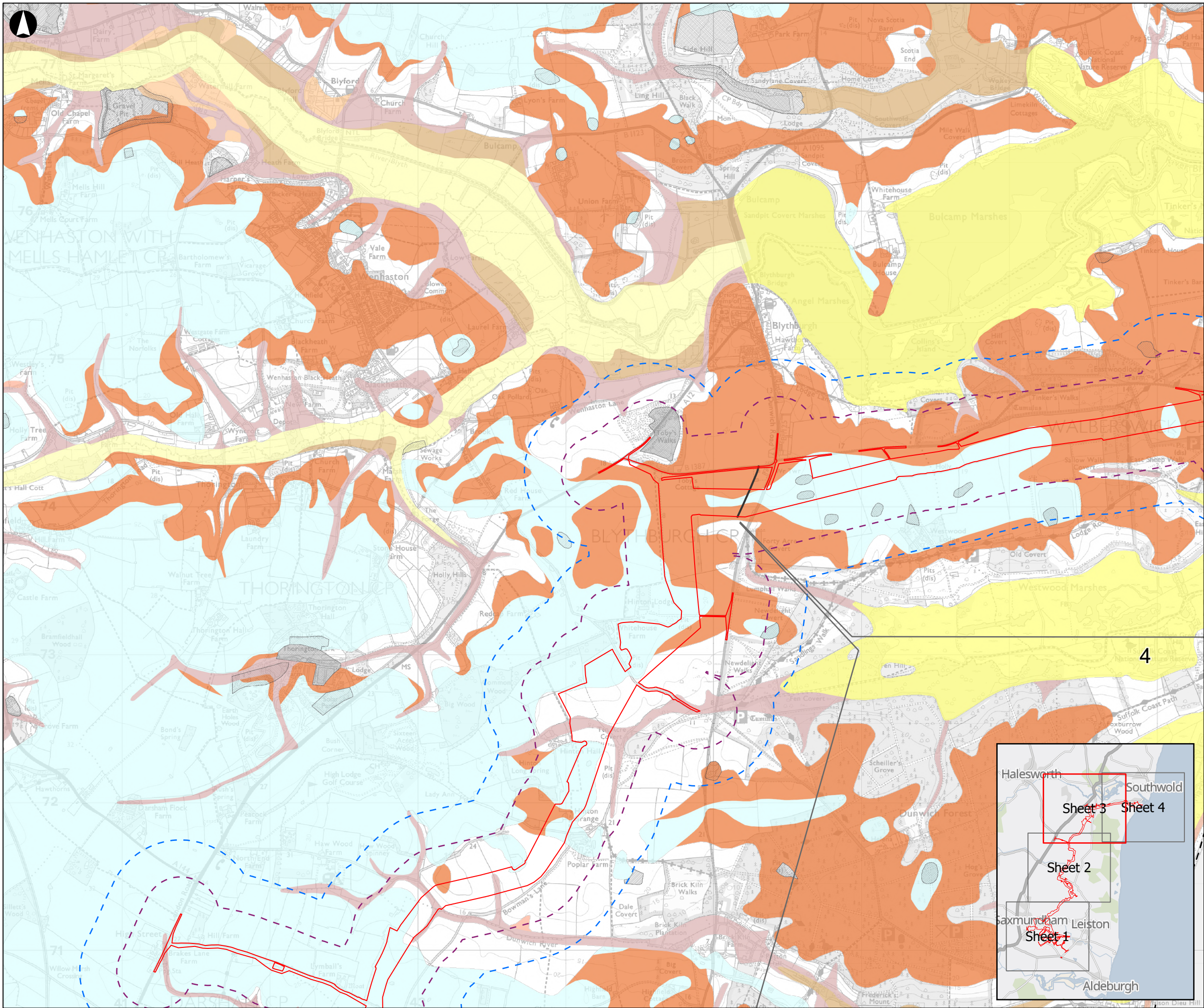
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A3





- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 500m
- Study Area 250m
- Superficial Deposits
  - PEAT
  - ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
  - HEAD - CLAY, SILT, SAND AND GRAVEL
  - TIDAL FLAT DEPOSITS - CLAY AND SILT
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  - LOWESTOFT FORMATION - SAND AND GRAVEL
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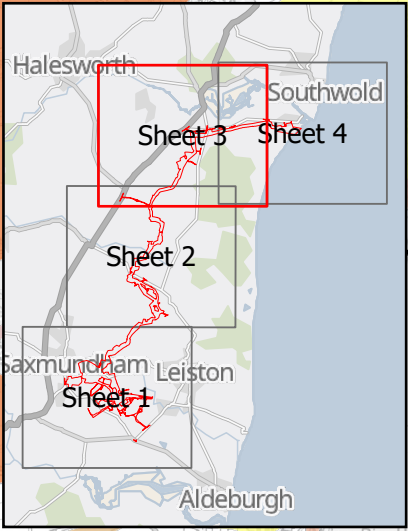
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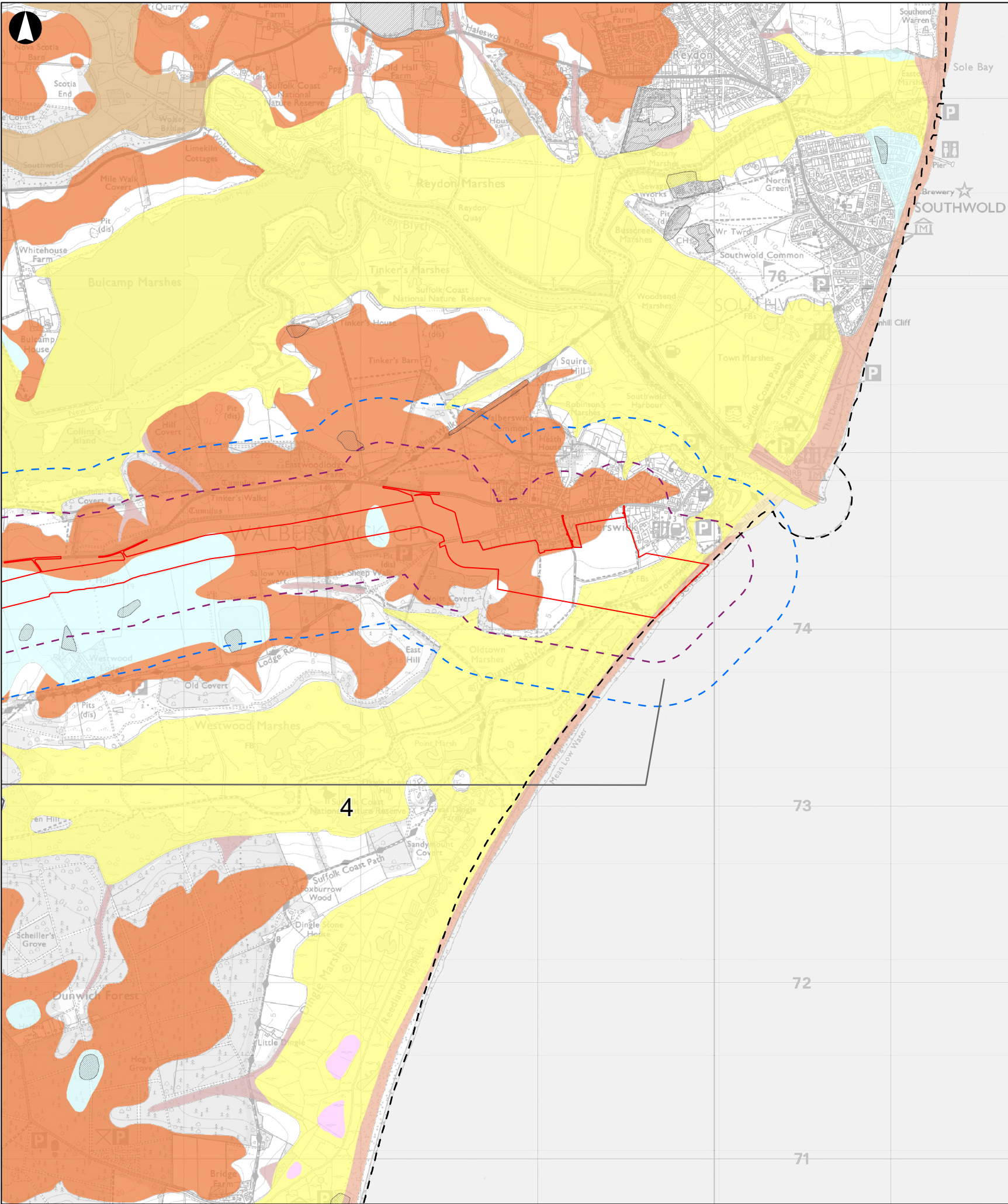
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Figure 9.2 Superficial Geology - Sheet 3

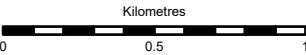
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Role  
Environment  
Suitability  
S2  
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- Proposed Onshore Scheme Draft Order Limits  
- - Mean Low Water Springs  
— Study Area Subsection  
- - Study Area 500m  
- - Study Area 250m
- Superficial Deposits**
- PEAT
  - ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
  - HEAD - CLAY, SILT, SAND AND GRAVEL
  - TIDAL FLAT DEPOSITS - CLAY AND SILT
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  - RIVER TERRACE DEPOSITS - SAND AND GRAVEL
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- Infilled Ground
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Figure 9.2 Superficial Geology - Sheet 4

Scale at A3

1:25,000

Role

Environment

Suitability

S2

Project Number

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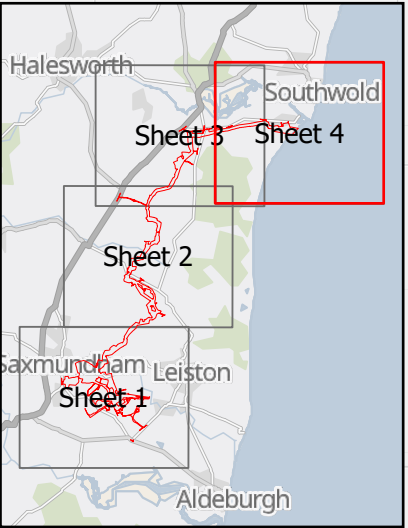
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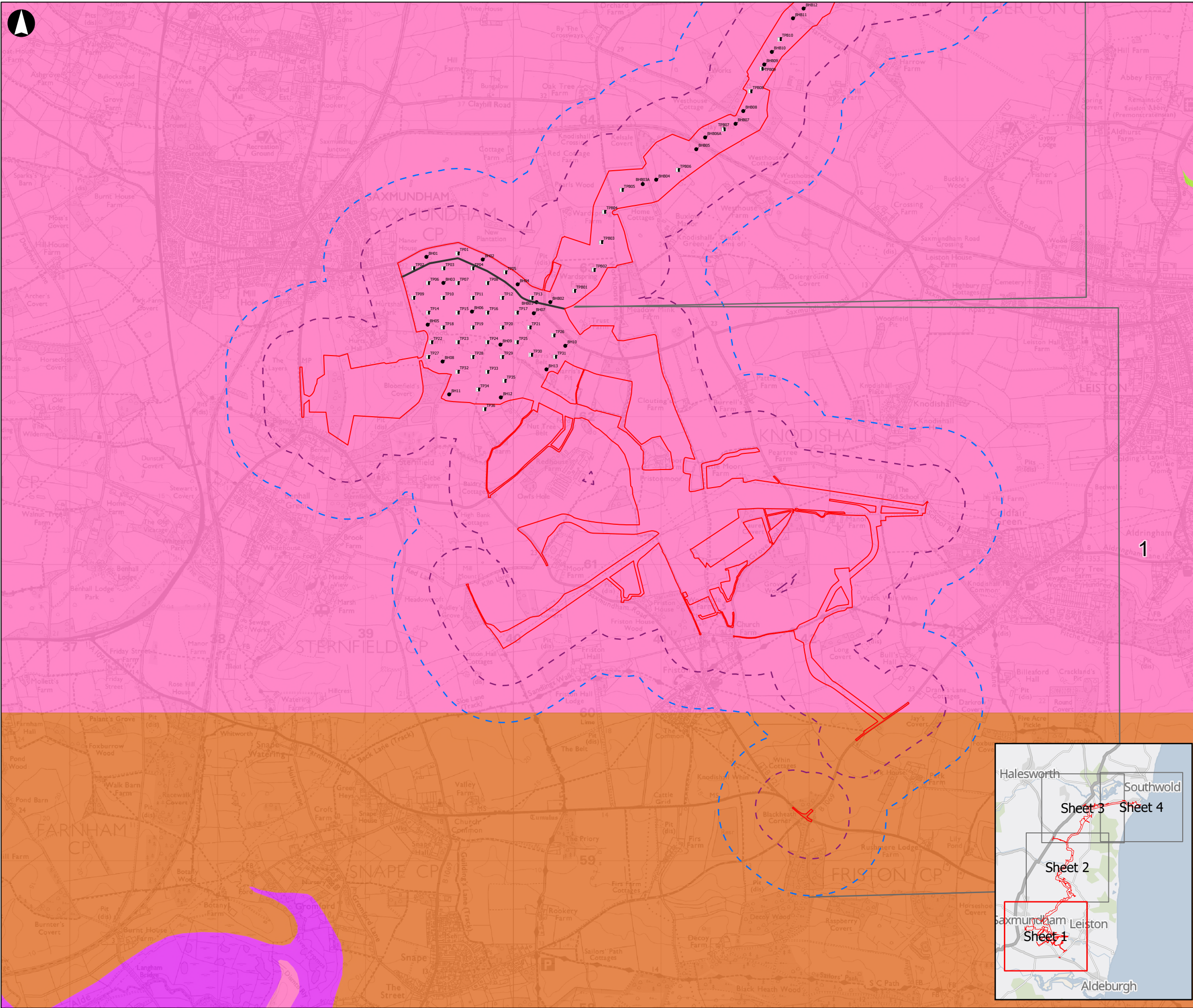
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- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m

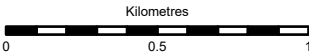
GI Location

- BH
- TP

Bedrock

- Crag Group - Sand
- Coralline Crag Formation - Calcareneite
- Red Crag Formation – Sand

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Figure 9.3 Solid Geology and Ground Investigation Locations - Sheet 1

Scale at A3

1:25,000

Role

Environment

Suitability

S2

Project Number

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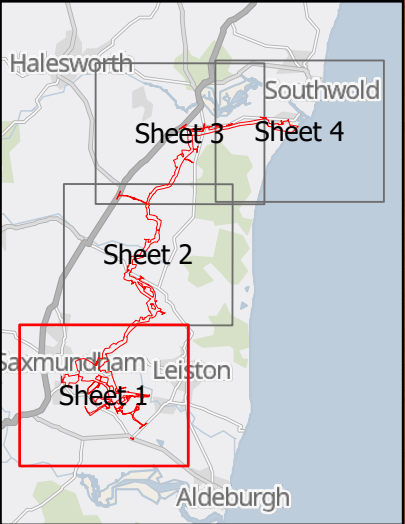
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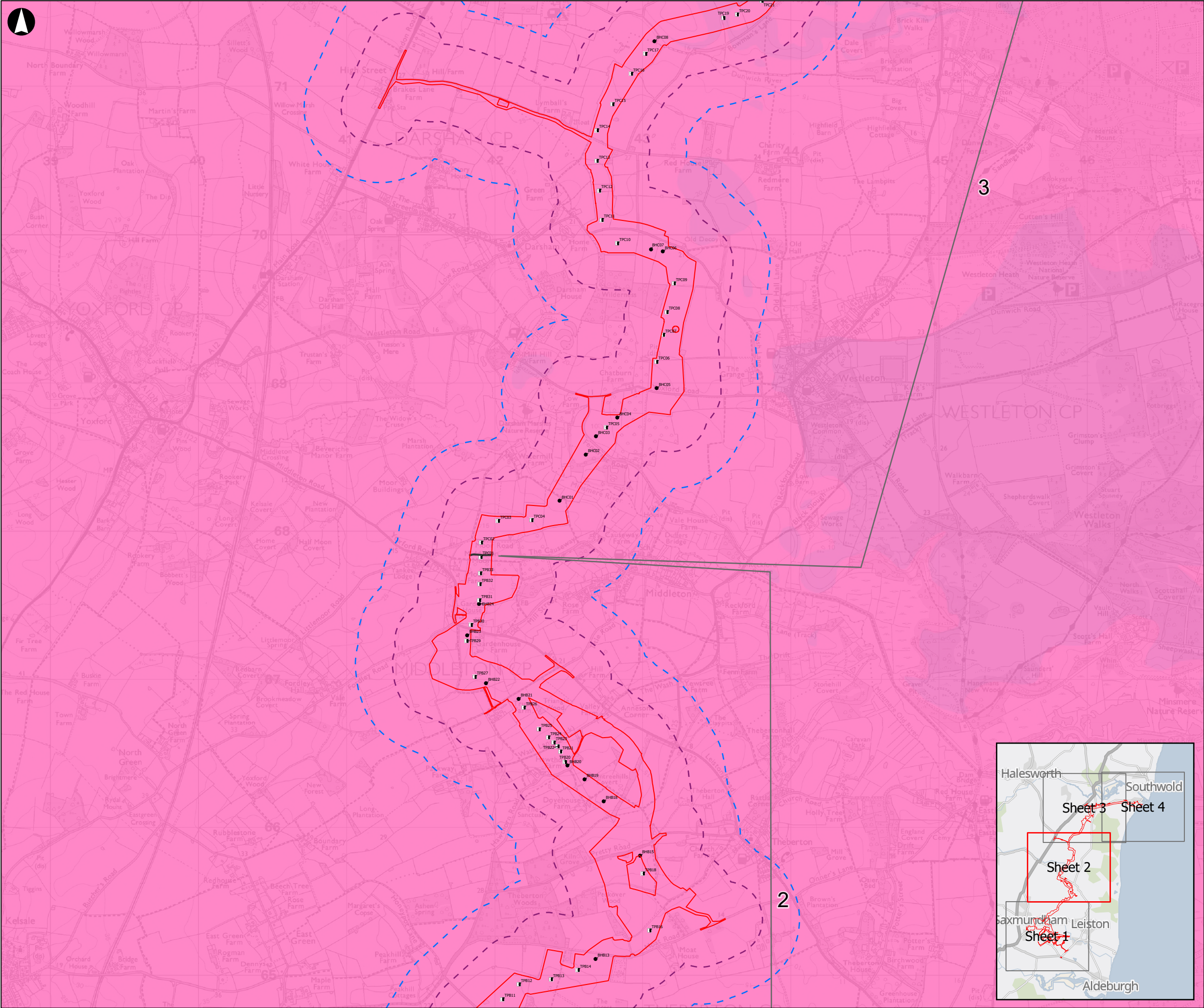
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- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m
- GI Location
- BH
  - TP
- Bedrock
- Crag Group - Sand
  - Coralline Crag Formation - Calcarenite
  - Red Crag Formation – Sand

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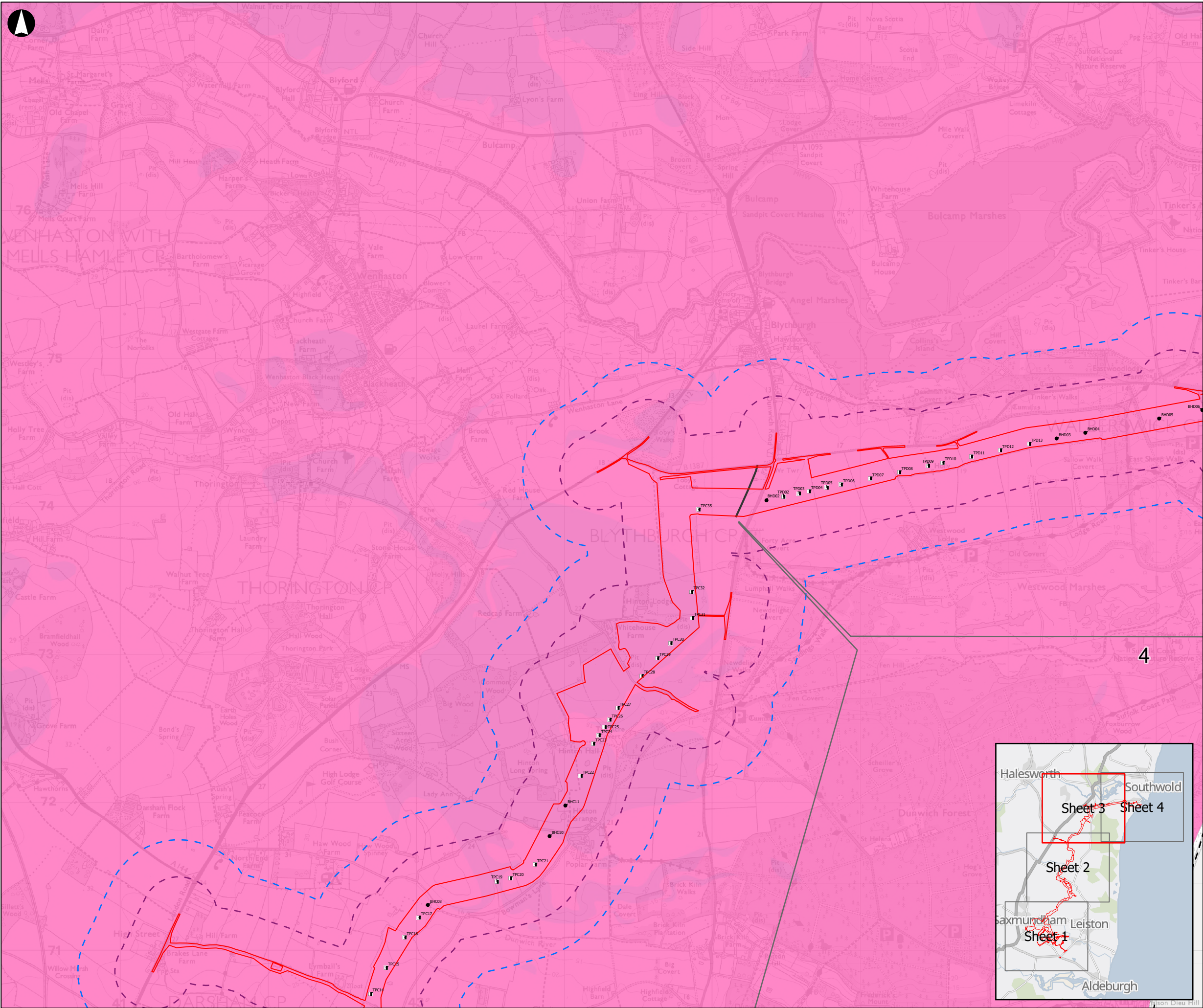
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Drawing Title  
Figure 9.3 Solid Geology and Ground Investigation Locations - Sheet 2

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| Role                   |     |
| Environment            |     |
| Suitability            |     |
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| Project Number         | Rev |
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A3



- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m
- GI Location
  - BH
  - TP
- Bedrock
  - Crag Group - Sand
  - Coralline Crag Formation - Calcarene
  - Red Crag Formation – Sand

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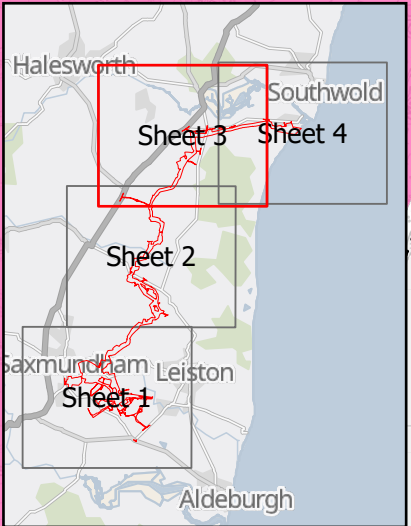
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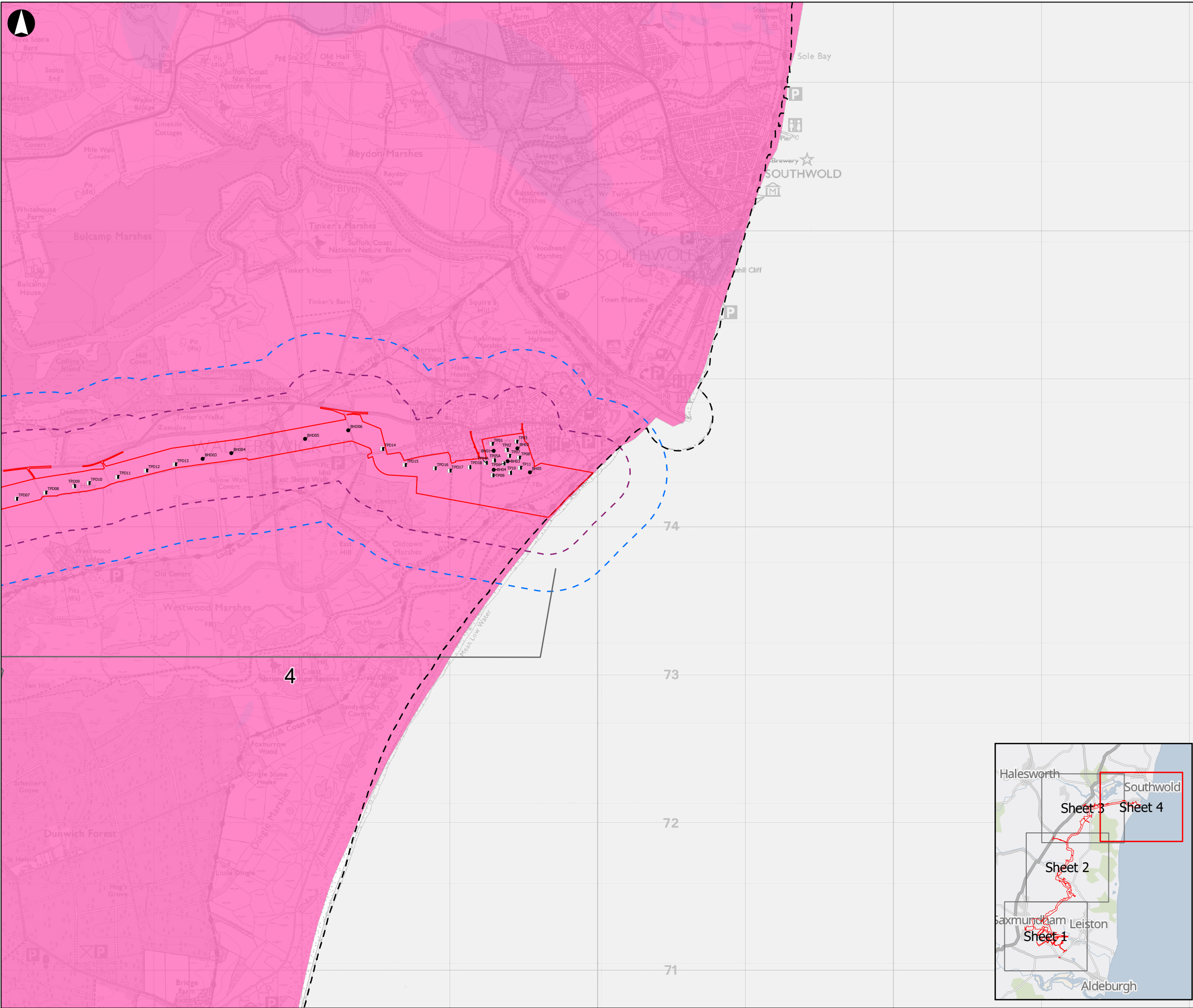
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Drawing Title  
Figure 9.3 Solid Geology and Ground Investigation Locations - Sheet 3

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| Role                   |     |
| Environment            |     |
| Suitability            |     |
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- Proposed Onshore Scheme Draft Order Limits
- - Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m
- GI Location
- BH
  - TP
- Bedrock
- Crag Group - Sand
  - Coralline Crag Formation - Calcarene
  - Red Crag Formation – Sand

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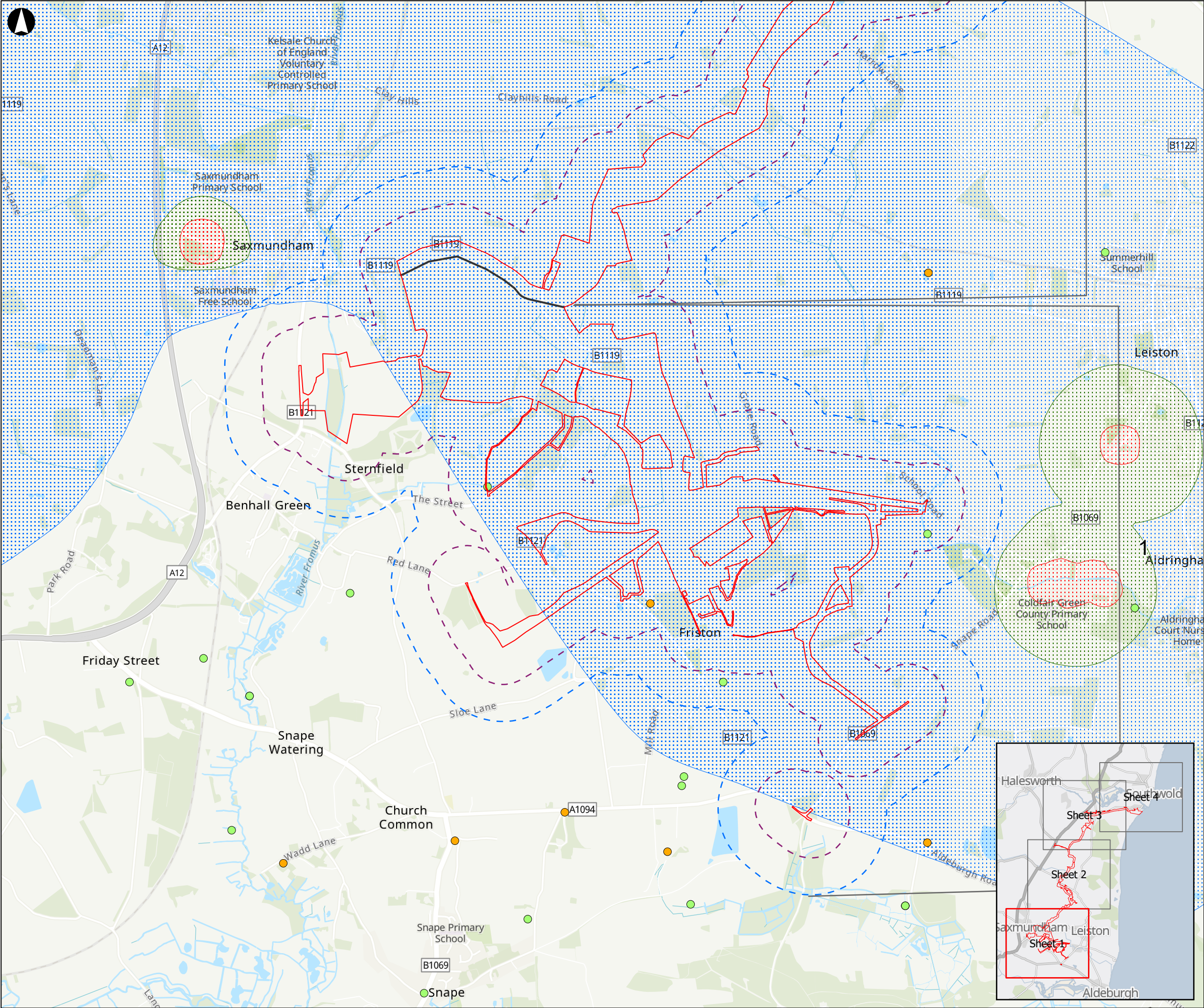
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Drawing Title  
Figure 9.3 Solid Geology and Ground Investigation Locations - Sheet 4

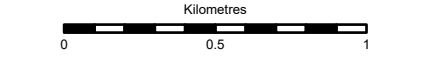
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| Environment            |     |
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- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m
- Private Groundwater Abstraction
- Licensed EA Ground Water Abstraction
- Source Protection Zone
  - Zone I - Inner Protection Zone
  - Zone II - Outer Protection Zone
  - Zone III - Total Catchment
- County GeoSite
- Sites of Special Scientific Interest (SSSI)

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Figure 9.4 Environmental Receptors - Sheet 1

Scale at A3

1:25,000

Role

Environment

Suitability

S2

Project Number

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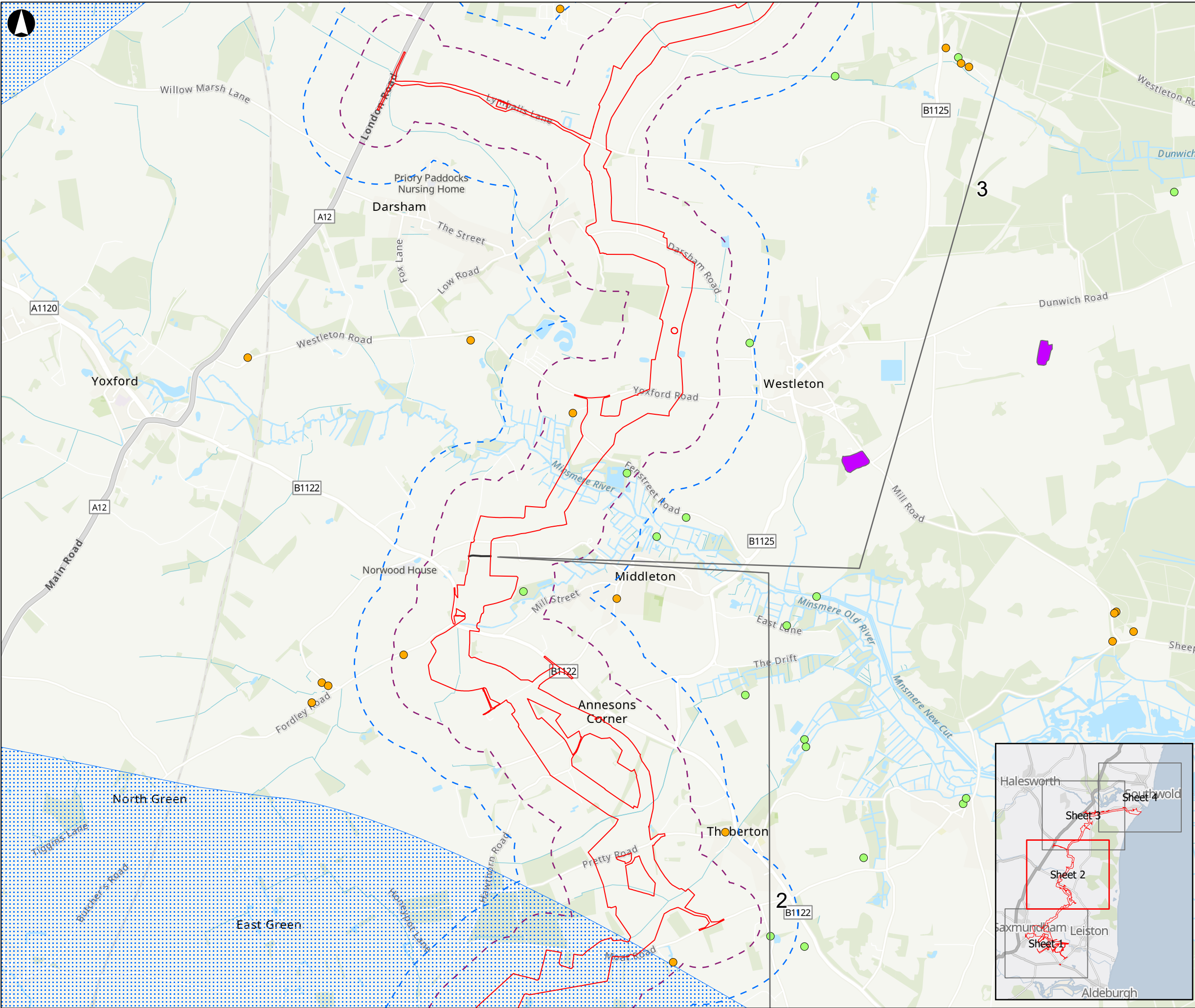
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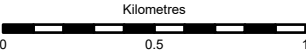
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A3



- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m
- Private Groundwater Abstraction
- Licenced EA Ground Water Abstraction
- Source Protection Zone
  - Zone I - Inner Protection Zone
  - Zone II - Outer Protection Zone
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Drawing Title  
Figure 9.4 Environmental Receptors - Sheet 2

Scale at A3

1:25,000

Role

Environment

Suitability

S2

Project Number

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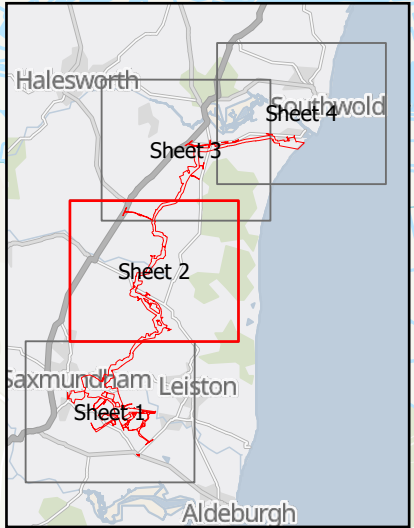
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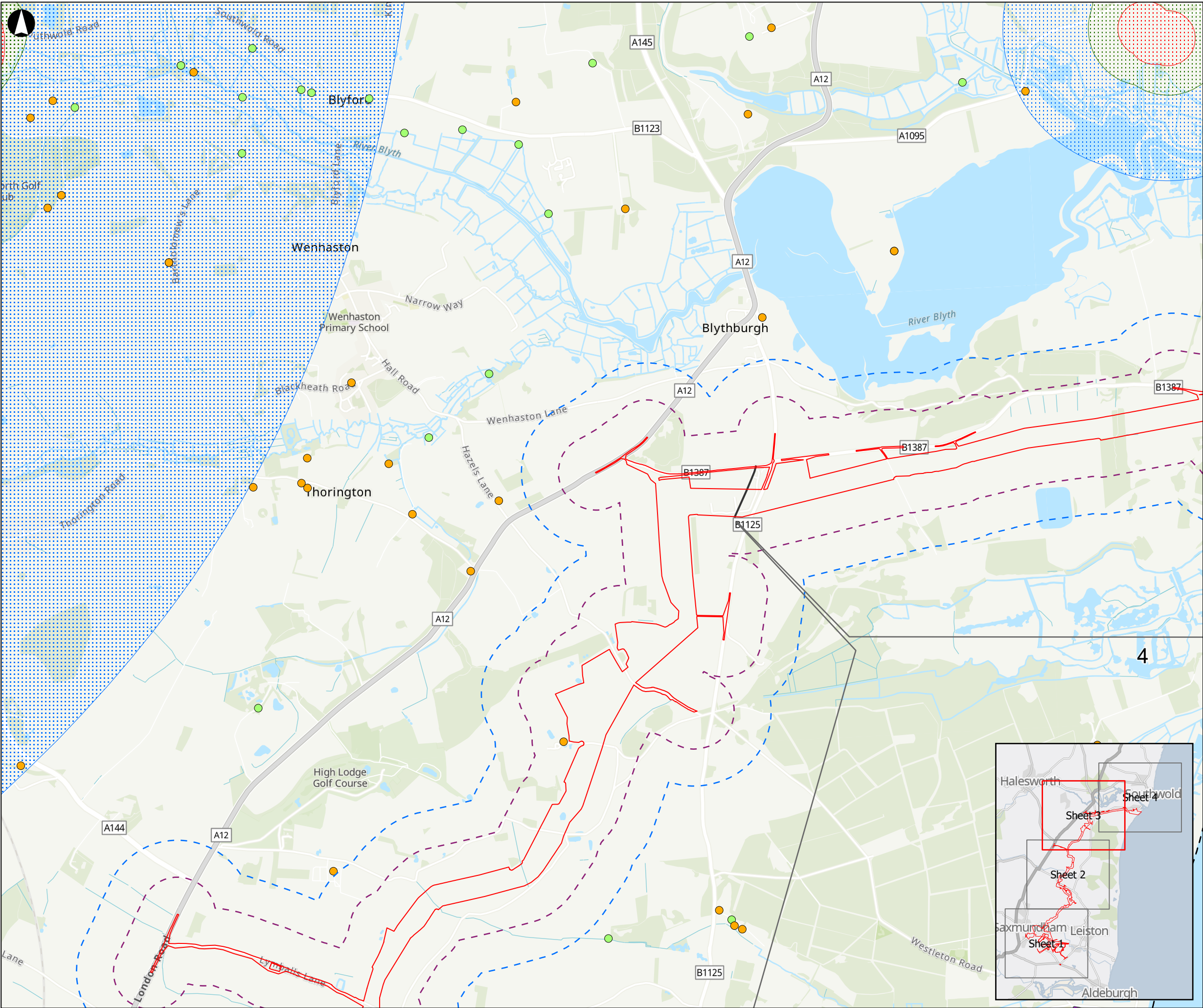
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A3





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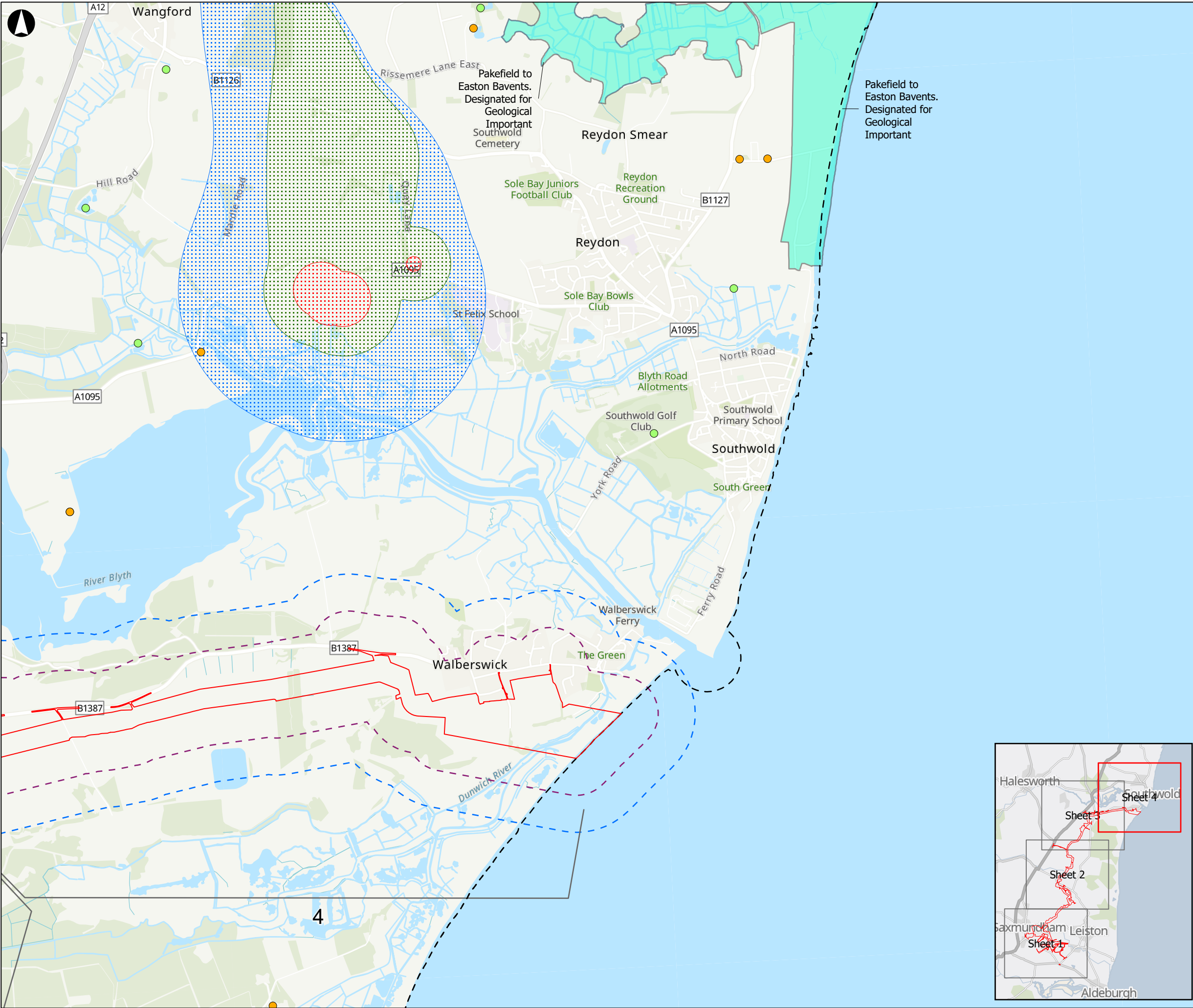
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Figure 9.4 Environmental Receptors - Sheet 3

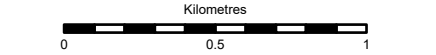
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A3



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  - Zone III - Total Catchment
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Drawing Title  
Figure 9.4 Environmental Receptors - Sheet 4

Scale at A3

1:25,000

Role

Environment

Suitability

S2

Project Number

287334-00

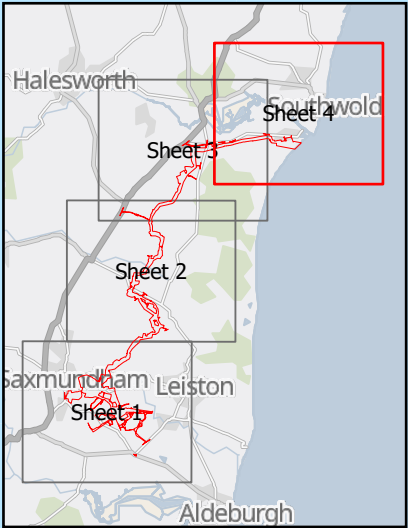
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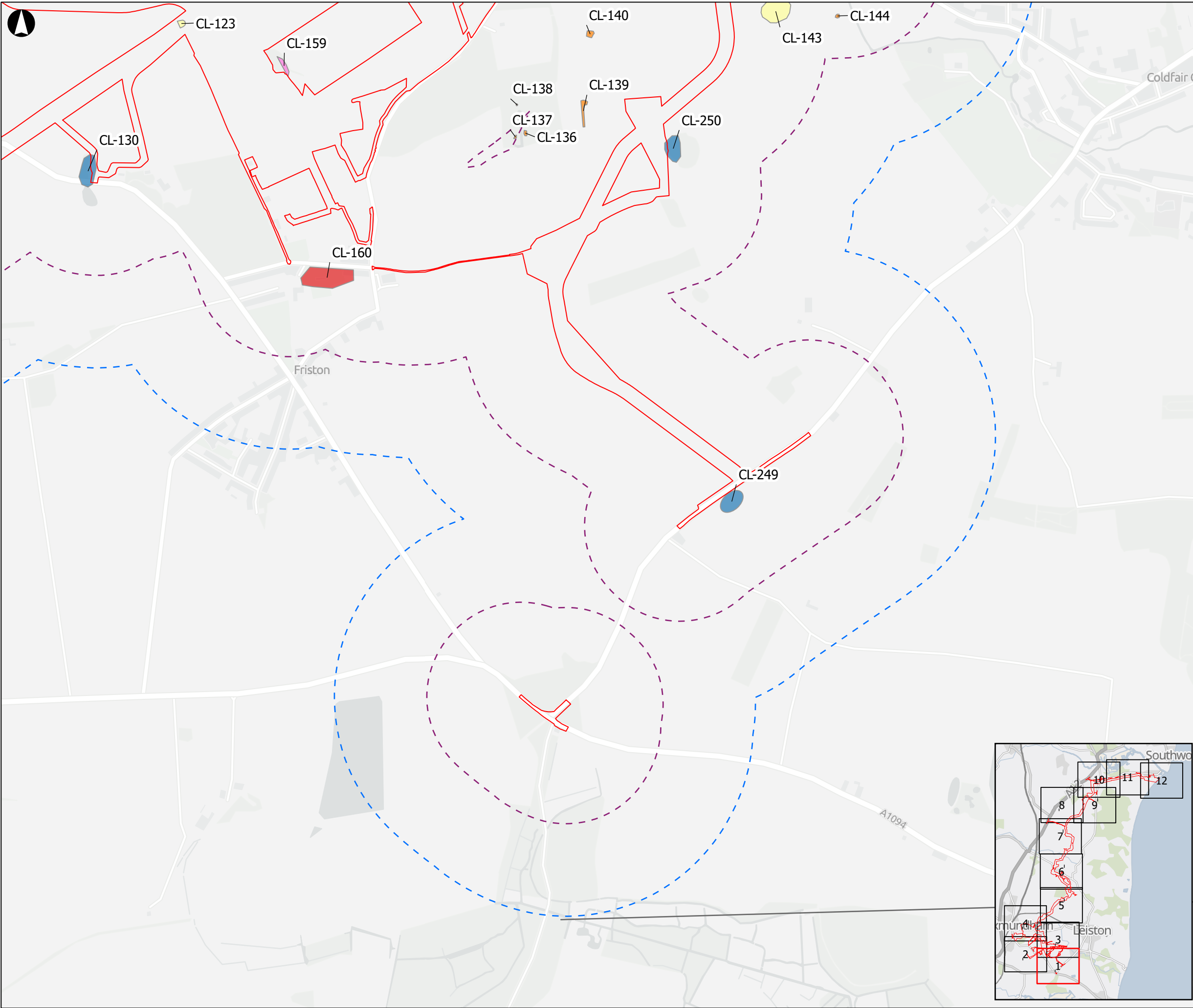
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Drawing Number

LLK1-ARU-DWG-ENV-00032

A3



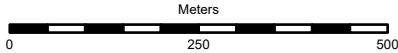


- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m

Potentially Contaminated Land Feature

- BGS Made Ground
- Historical landfill
- Historical waste site
- Infilled clay pit
- Grave yard
- Infilled pond
- Infilled sand pit
- Infilled unspecified pit

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Project Name

LIONLINK

Drawing Title  
Figure 9.5 Potentially Contaminated Land - Sheet 1

Scale at A3

1:10,000

Role

Environment

Suitability

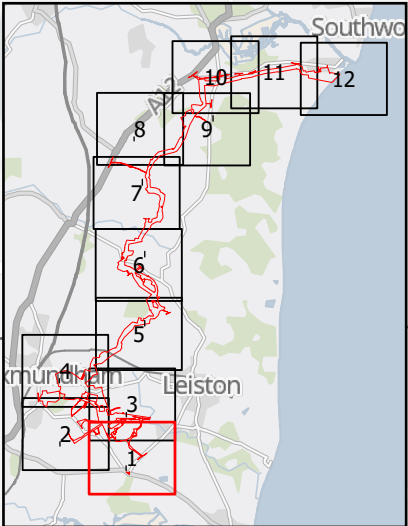
S2

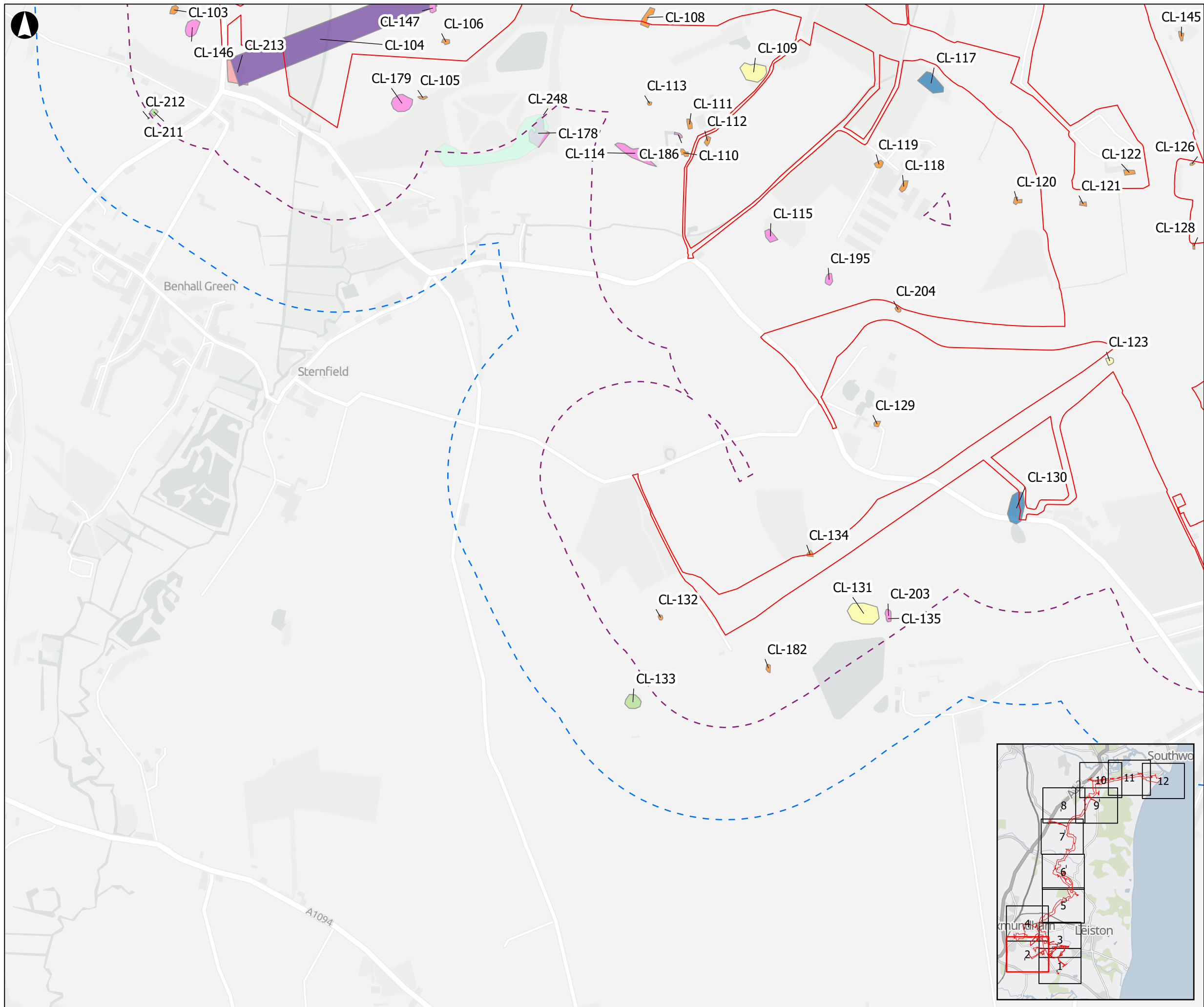
Project Number  
287334-00

Rev  
P02

Drawing Number  
LLK1-ARU-DWG-ENV-00033

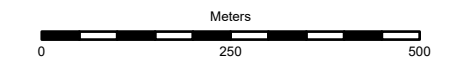
A3





- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m
- Potentially Contaminated Land Feature
- BGS Made Ground
  - Historical landfill
  - Historical waste site
  - Infilled clay pit
  - Crag pit
  - Garage
  - Infilled pond
  - Rifle range
  - Infilled sand pit
  - Unspecified depot
  - Infilled unspecified pit
  - Unspecified tank

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Project Name

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Drawing Title  
Figure 9.5 Potentially Contaminated Land - Sheet 2

Scale at A3

1:10,000

Role

Environment

Suitability

S2

Project Number

287334-00

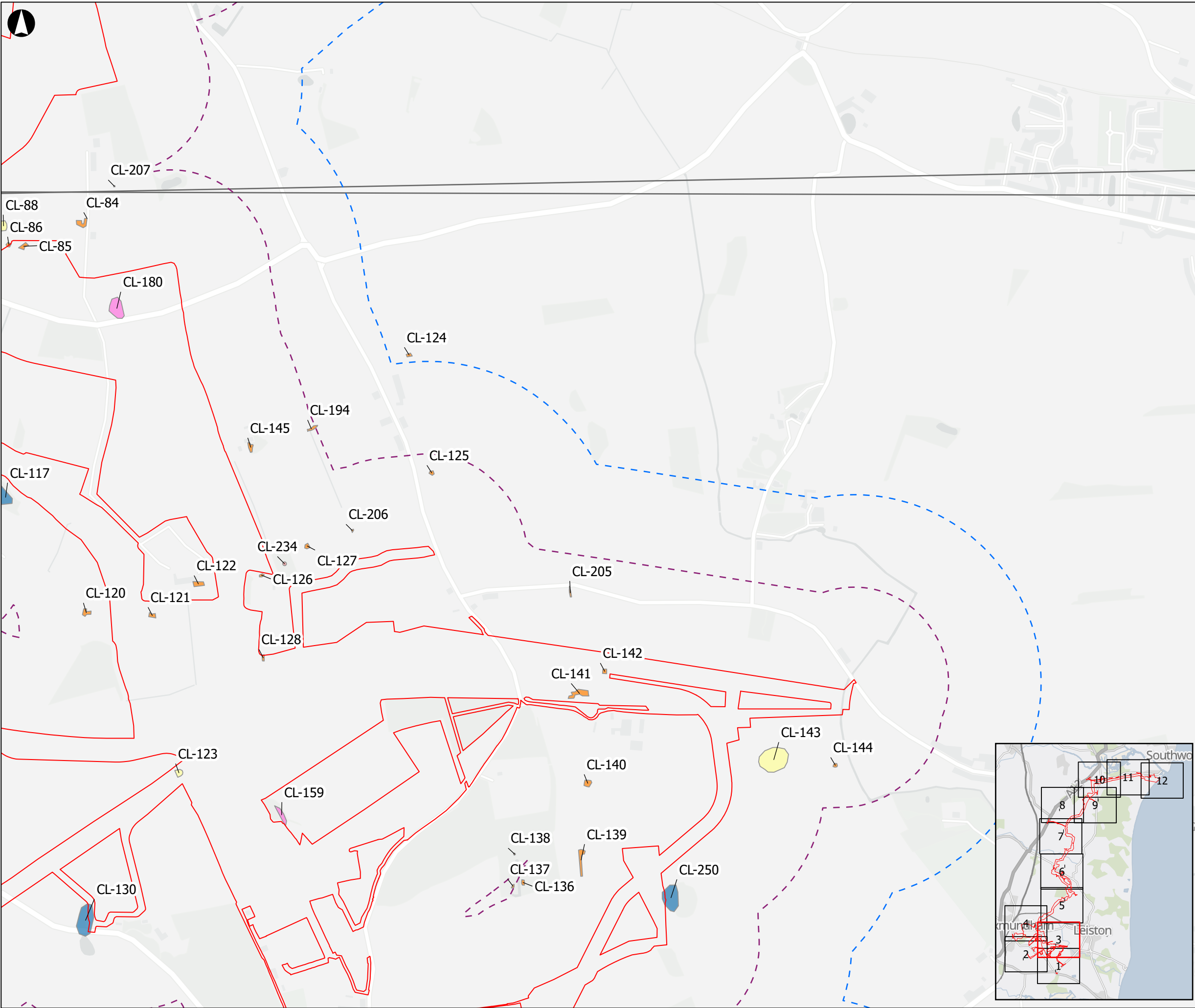
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P02

Drawing Number

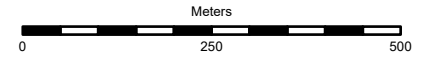
LLK1-ARU-DWG-ENV-00033

A3



- Proposed Onshore Scheme Draft Order Limits
  - Mean Low Water Springs
  - Study Area Subsection
  - Study Area 250m
  - Study Area 500m
- Potentially Contaminated Land Feature
- BGS Made Ground
  - Historical landfill
  - Historical waste site
  - Infilled clay pit
  - Infilled pond
  - Infilled sand pit
  - Infilled unspecified pit
  - Unspecified tank

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Drawing Title  
Figure 9.5 Potentially Contaminated  
Land - Sheet 3

Scale at A3

1:10,000

Role

Environment

Suitability

S2

Project Number

287334-00

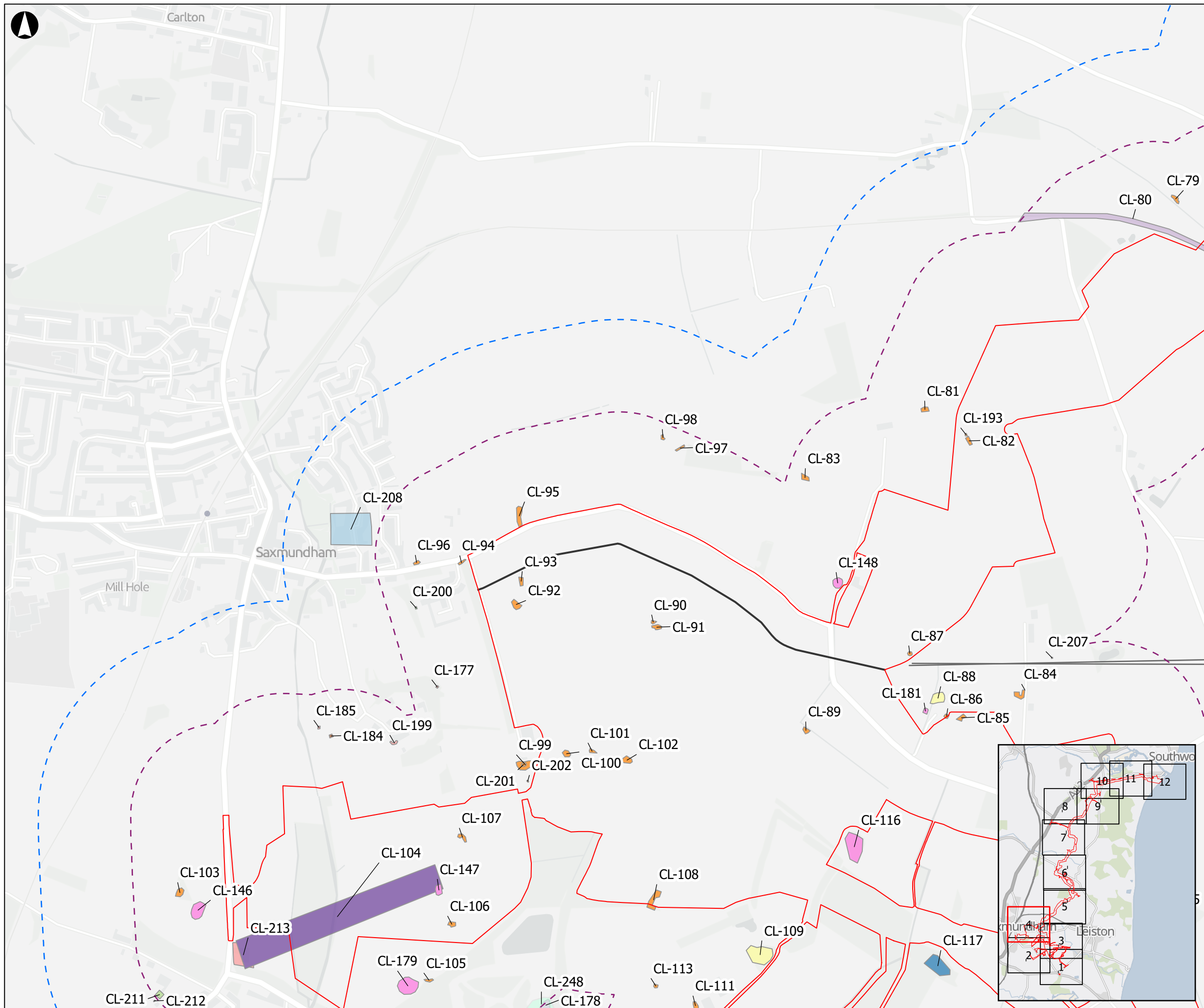
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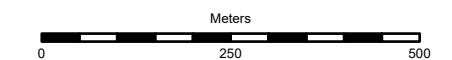
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A3



- Proposed Onshore Scheme Draft Order Limits  
Mean Low Water Springs  
Study Area Subsection  
Study Area 250m  
Study Area 500m
- Potentially Contaminated Land Feature
- BGS Made Ground
  - Historical landfill
  - Historical waste site
  - Infilled clay pit
  - Electrical substation
  - Garage
  - Infilled pond
  - Railway
  - Rifle range
  - Infilled sand pit
  - Septic tank
  - Sewage works
  - Unspecified depot
  - Infilled unspecified pit
  - Unspecified tank

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Drawing Title  
Figure 9.5 Potentially Contaminated  
Land - Sheet 4

Scale at A3

1:10,000

Role

Environment

Suitability

S2

Project Number

287334-00

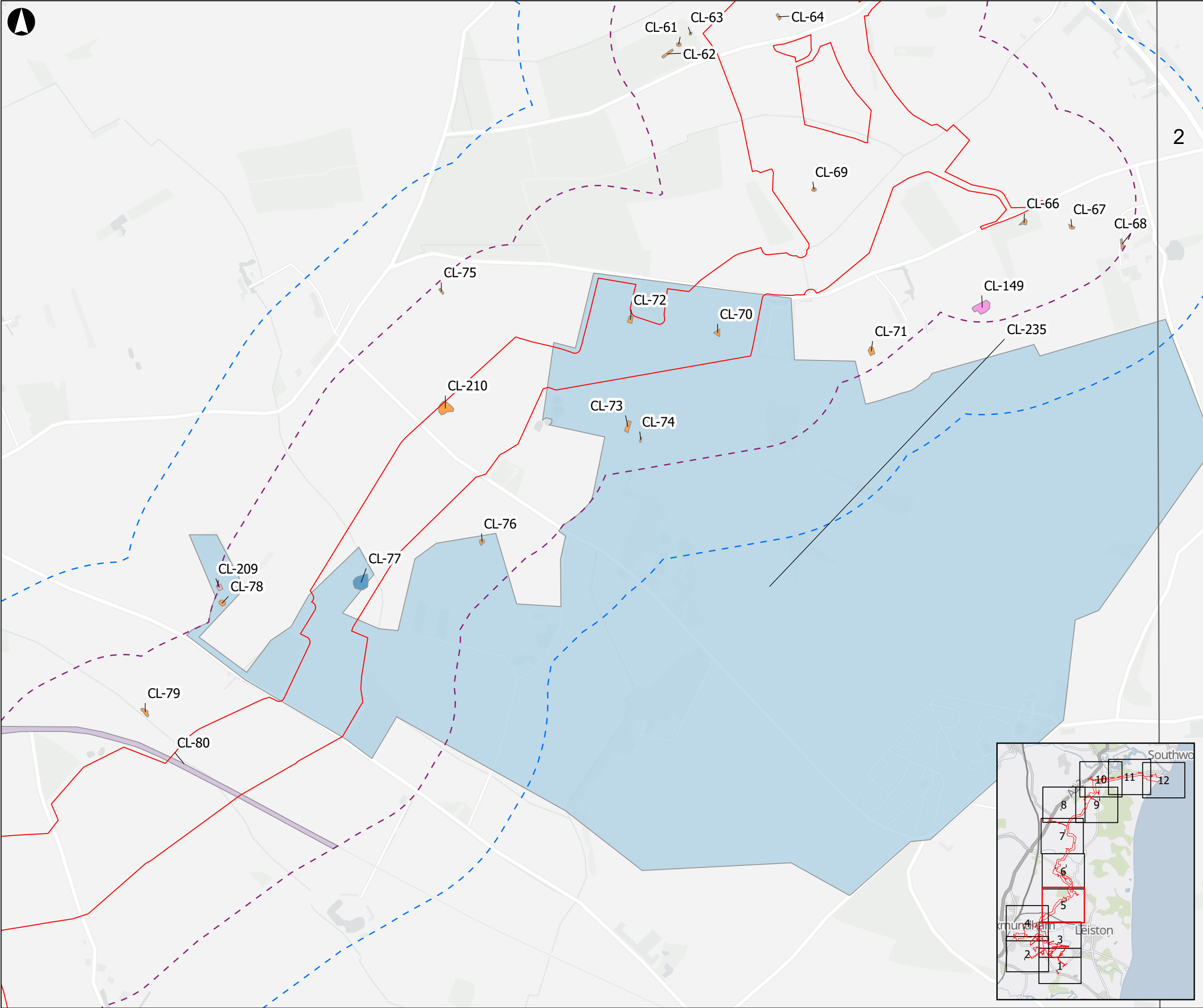
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Drawing Number

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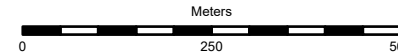


- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m

Potentially Contaminated Land Feature

- BGS Made Ground
- Historical landfill
- Historical waste site
- Airfield
- Infilled clay pit
- Infilled pond
- Railway
- Infilled unspecified pit
- Unspecified tank

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Drawing Title  
Figure 9.5 Potentially Contaminated  
Land - Sheet 5

Scale at A3

1:10,000

Role

Environment

Suitability

S2

Project Number

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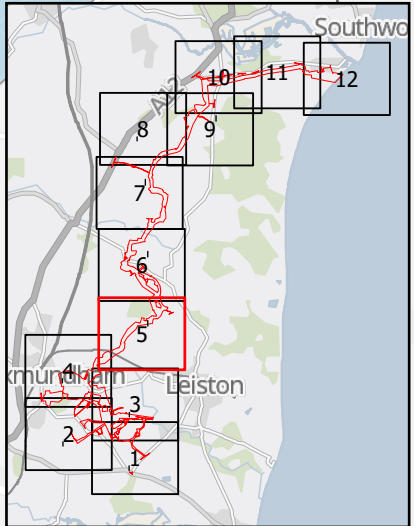
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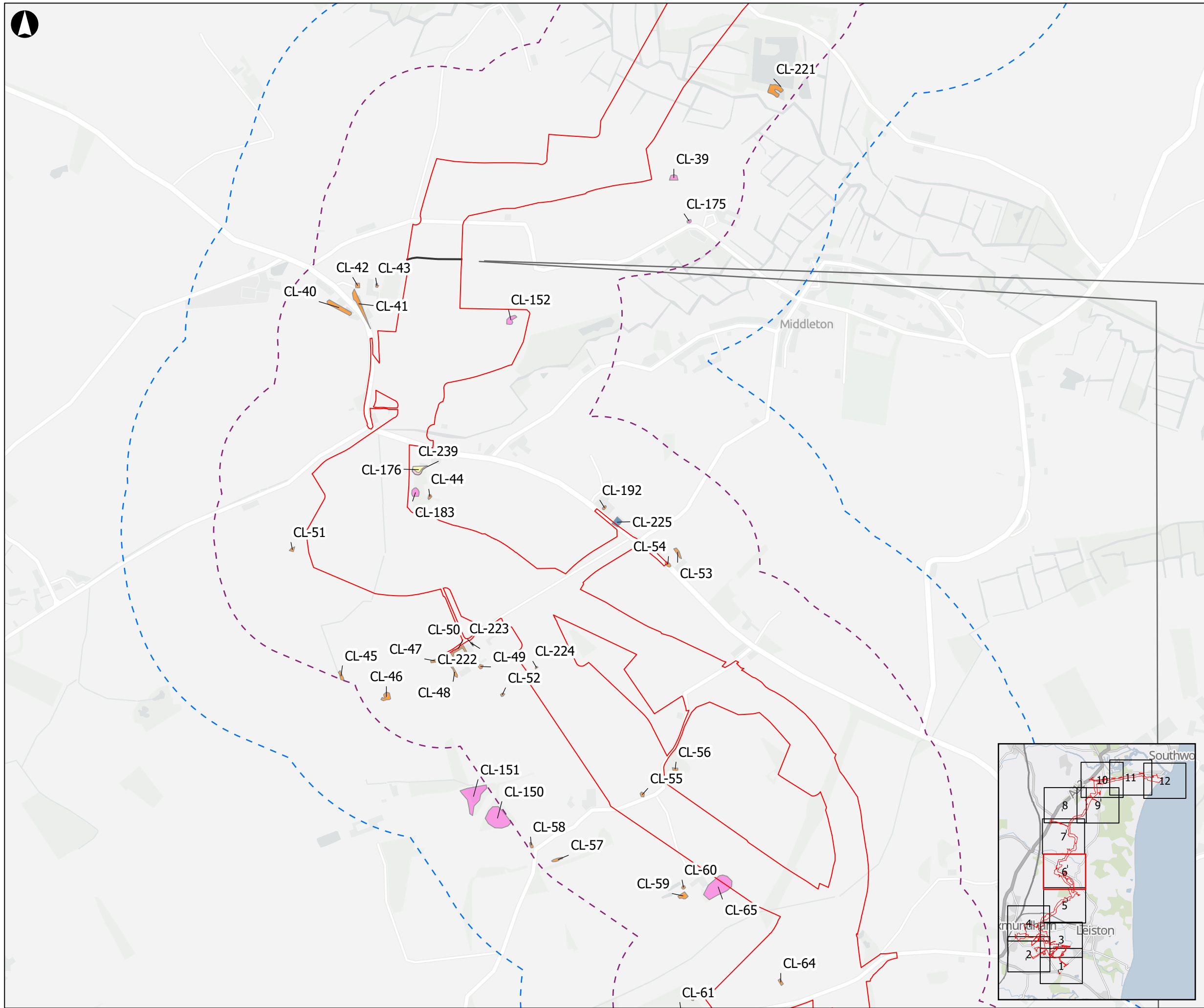
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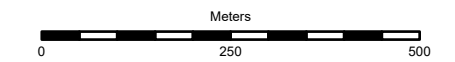
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- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m
- Potentially Contaminated Land Feature
- BGS Made Ground
  - Historical landfill
  - Historical waste site
  - Infilled pond
  - Infilled sand pit
  - Smithy
  - Infilled unspecified pit
  - Unspecified tank

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Drawing Title  
Figure 9.5 Potentially Contaminated  
Land - Sheet 6

Scale at A3

1:10,000

Role

Environment

Suitability

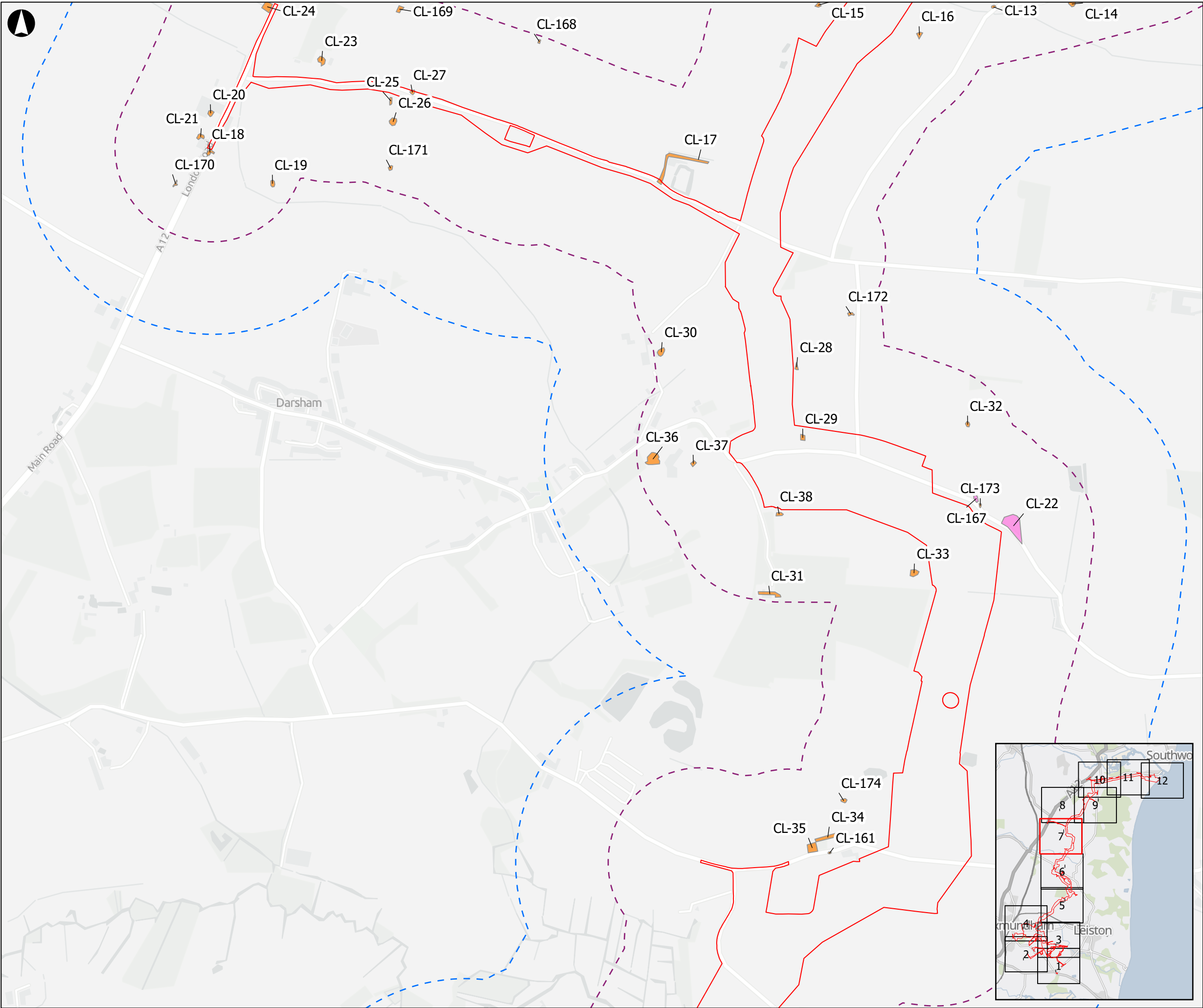
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Project Number  
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Rev  
P02

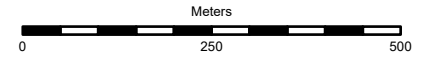
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A3



- Proposed Onshore Scheme Draft Order Limits  
- - Mean Low Water Springs  
— Study Area Subsection  
- - Study Area 250m  
- - Study Area 500m
- Potentially Contaminated Land Feature
- BGS Made Ground
  - Historical landfill
  - Historical waste site
  - Infilled pond
  - Infilled unspecified pit

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Drawing Title  
Figure 9.5 Potentially Contaminated  
Land - Sheet 7

Scale at A3

1:10,000

Role

Environment

Suitability

S2

Project Number

287334-00

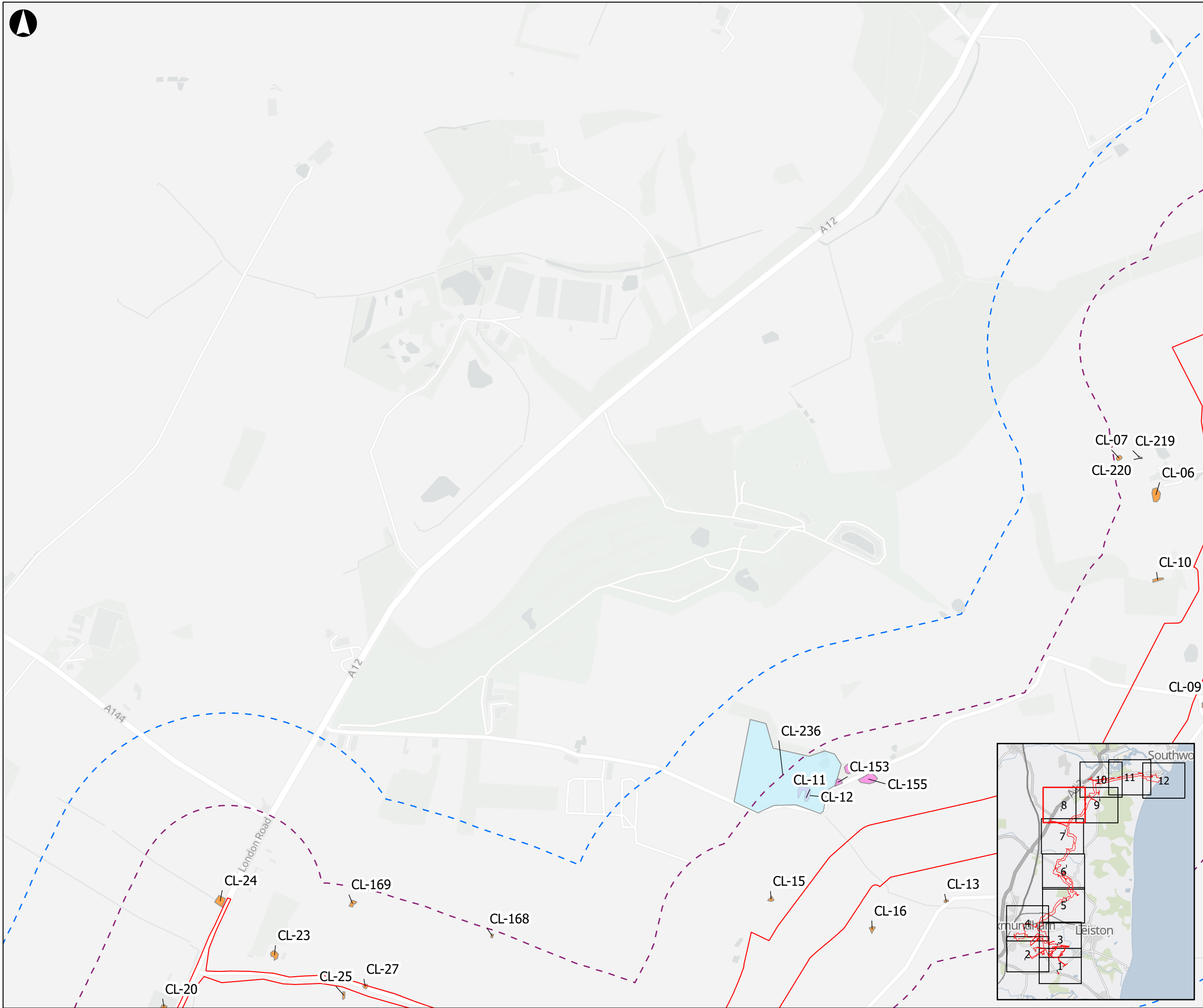
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P02

Drawing Number

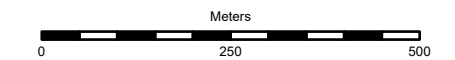
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A3



- Proposed Onshore Scheme Draft Order Limits
  - Mean Low Water Springs
  - Study Area Subsection
  - Study Area 250m
  - Study Area 500m
- Potentially Contaminated Land Feature
- BGS Made Ground
  - Historical landfill
  - Historical waste site
  - Infilled pond
  - Infilled unspecified pit
  - Unspecified tank

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Drawing Title  
Figure 9.5 Potentially Contaminated  
Land - Sheet 8

Scale at A3

1:10,000

Role

Environment

Suitability

S2

Project Number

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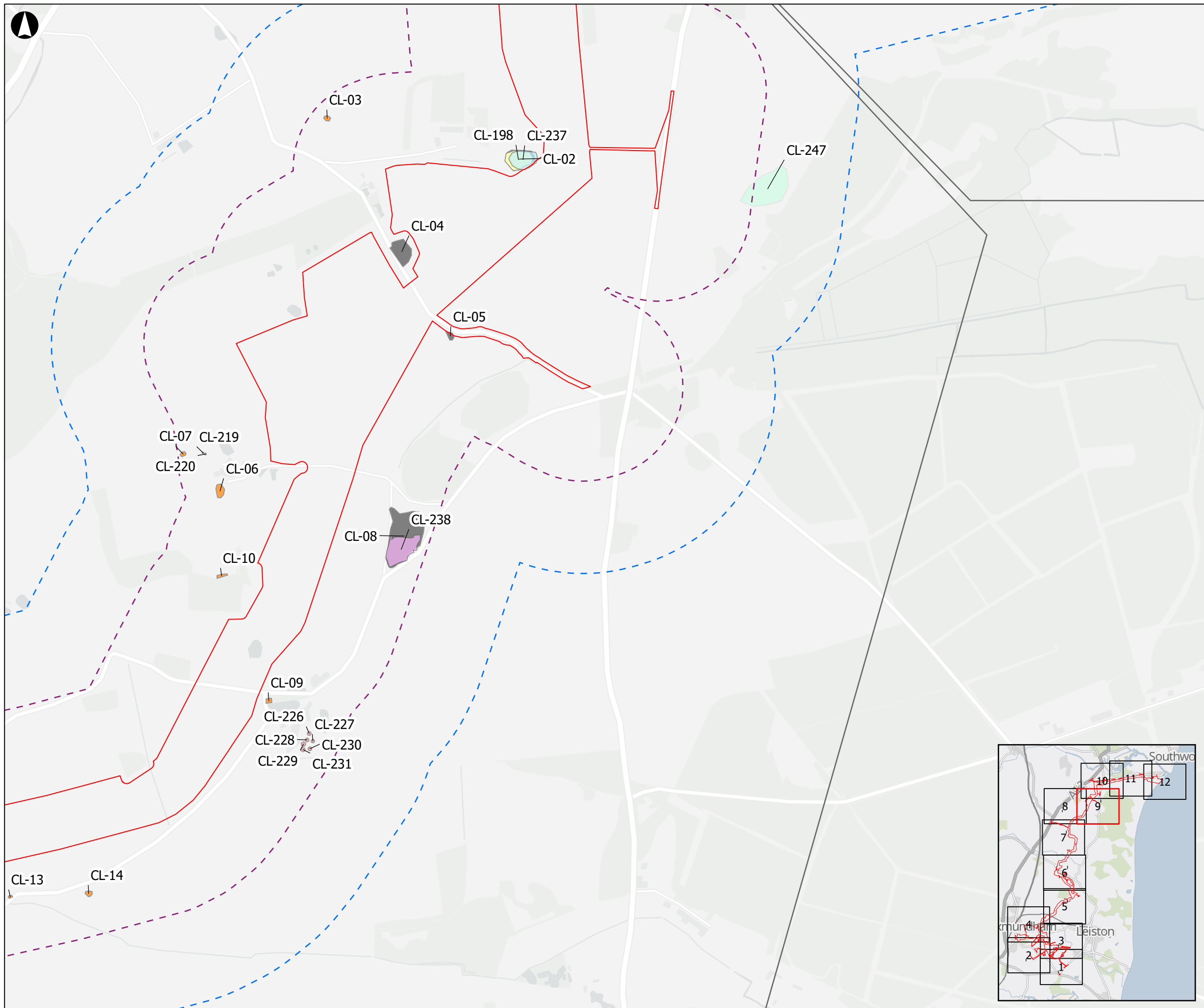
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P02

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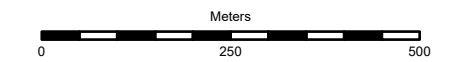
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A3



- Proposed Onshore Scheme Draft Order Limits
  - Mean Low Water Springs
  - Study Area Subsection
  - Study Area 250m
  - Study Area 500m
- Potentially Contaminated Land Feature
- BGS Made Ground
  - Historical landfill
  - Historical waste site
  - Infilled gravel pit
  - Infilled pond
  - Infilled sand pit
  - Unspecified tank

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Drawing Title  
**Figure 9.5 Potentially Contaminated Land - Sheet 9**

Scale at A3

**1:10,000**

Role

**Environment**

Suitability

**S2**

Project Number

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Rev

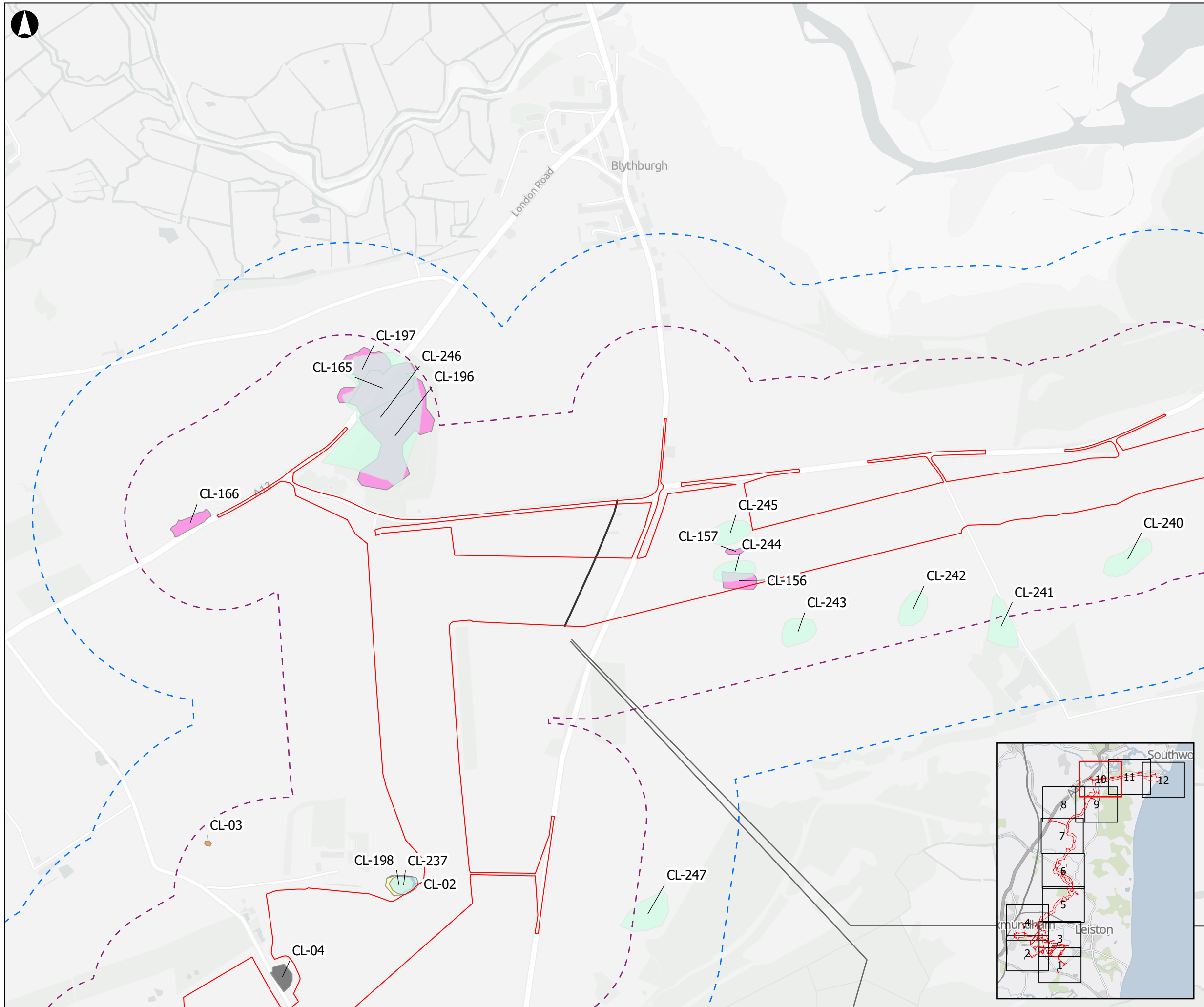
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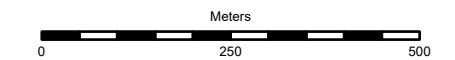
**A3**

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  - Mean Low Water Springs
  - Study Area Subsection
  - Study Area 250m
  - Study Area 500m
- Potentially Contaminated Land Feature
- BGS Made Ground
  - Historical landfill
  - Historical waste site
  - Infilled gravel pit
  - Infilled pond
  - Infilled sand pit
  - Infilled unspecified pit

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Project Name

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Drawing Title  
Figure 9.5 Potentially Contaminated  
Land - Sheet 10

Scale at A3

1:10,000

Role

Environment

Suitability

S2

Project Number

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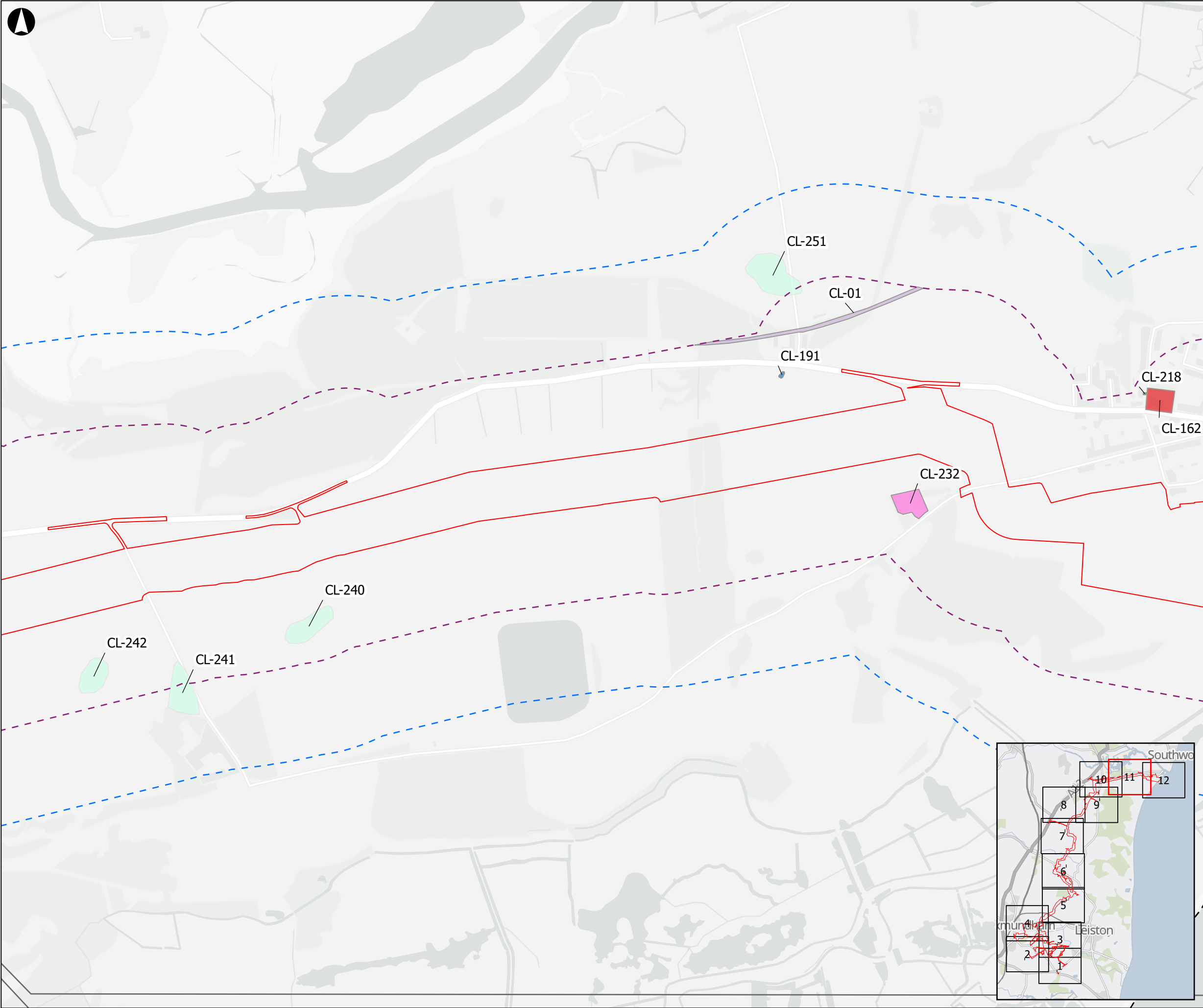
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P02

Drawing Number

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A3

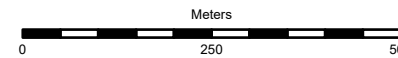


- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m

#### Potentially Contaminated Land Feature

- BGS Made Ground
- Historical landfill
- Historical waste site
- Infilled clay pit
- Electrical substation
- Grave yard
- Railway
- Infilled unspecified pit

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Project Name

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Drawing Title  
Figure 9.5 Potentially Contaminated  
Land - Sheet 11

Scale at A3

1:10,000

Role

Environment

Suitability

S2

Project Number

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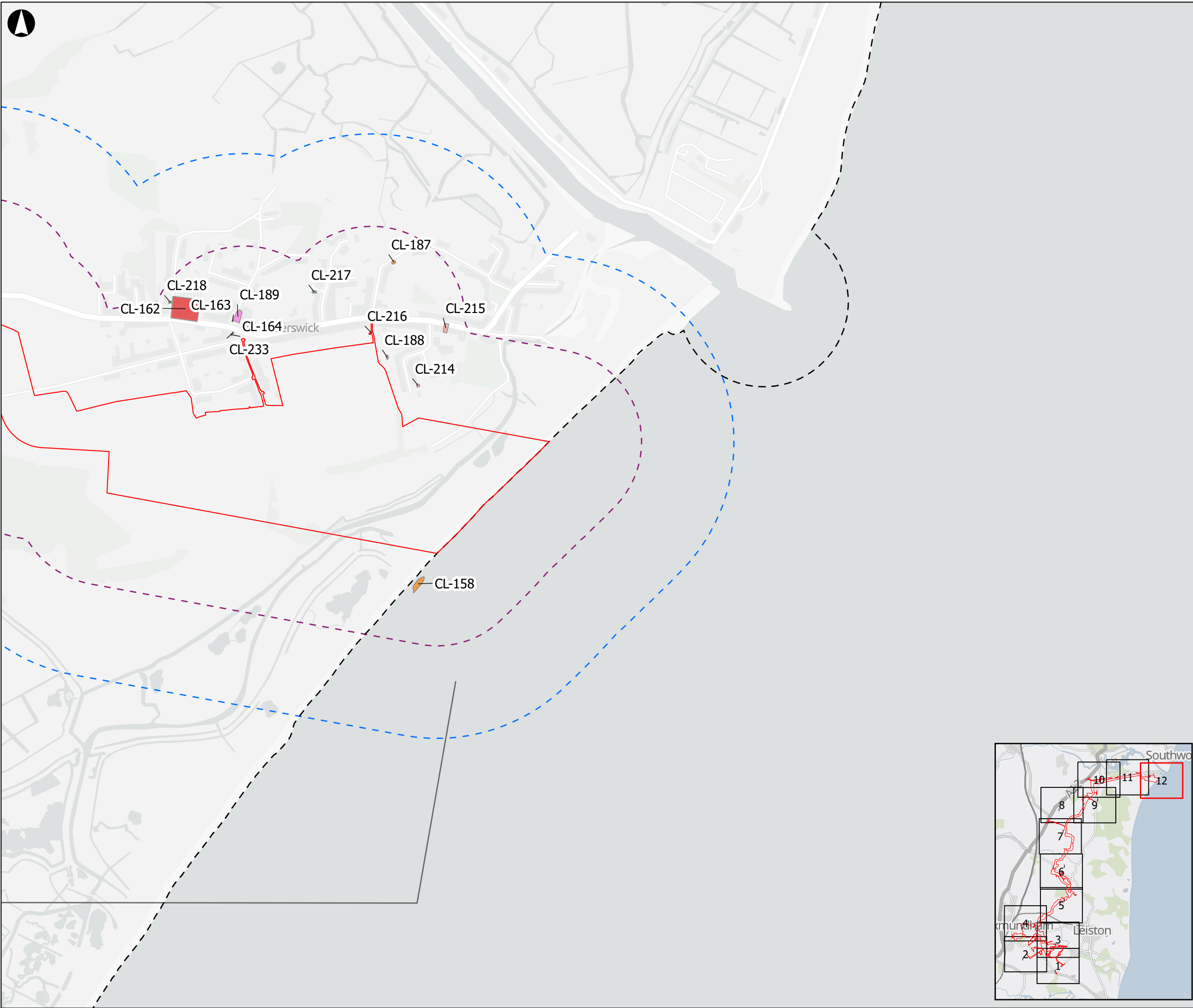
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Drawing Number

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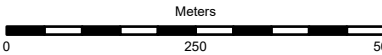


- Proposed Onshore Scheme Draft Order Limits
- Mean Low Water Springs
- Study Area Subsection
- Study Area 250m
- Study Area 500m

Potentially Contaminated Land Feature

- BGS Made Ground
- Historical landfill
- Historical waste site
- Electrical substation
- Garage
- Grave yard
- Infilled pond
- Infilled unspecified pit
- Unspecified tank

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Project Name

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Drawing Title  
Figure 9.5 Potentially Contaminated Land - Sheet 12

Scale at A3

1:10,000

Role

Environment

Suitability

S2

Project Number

287334-00

Rev

P02

Drawing Number

LLK1-ARU-DWG-ENV-00033

A3

