

Chapter 18 Marine Physical Environment

Figure 18.1 Study area.

Figure 18.2 Bathymetry

Figure 18.3 Seabed features

Figure 18.4 Seabed sediments and percentage of fines from PSA

Figure 18.5 Seabed sediments and percentage of gravel from PSA

Figure 18.6 Seabed sediments and percentage of sand from PSA

Figure 18.7 Tidal ranges for spring and neap tides

Figure 18.8 Peak flows for spring and neap tides

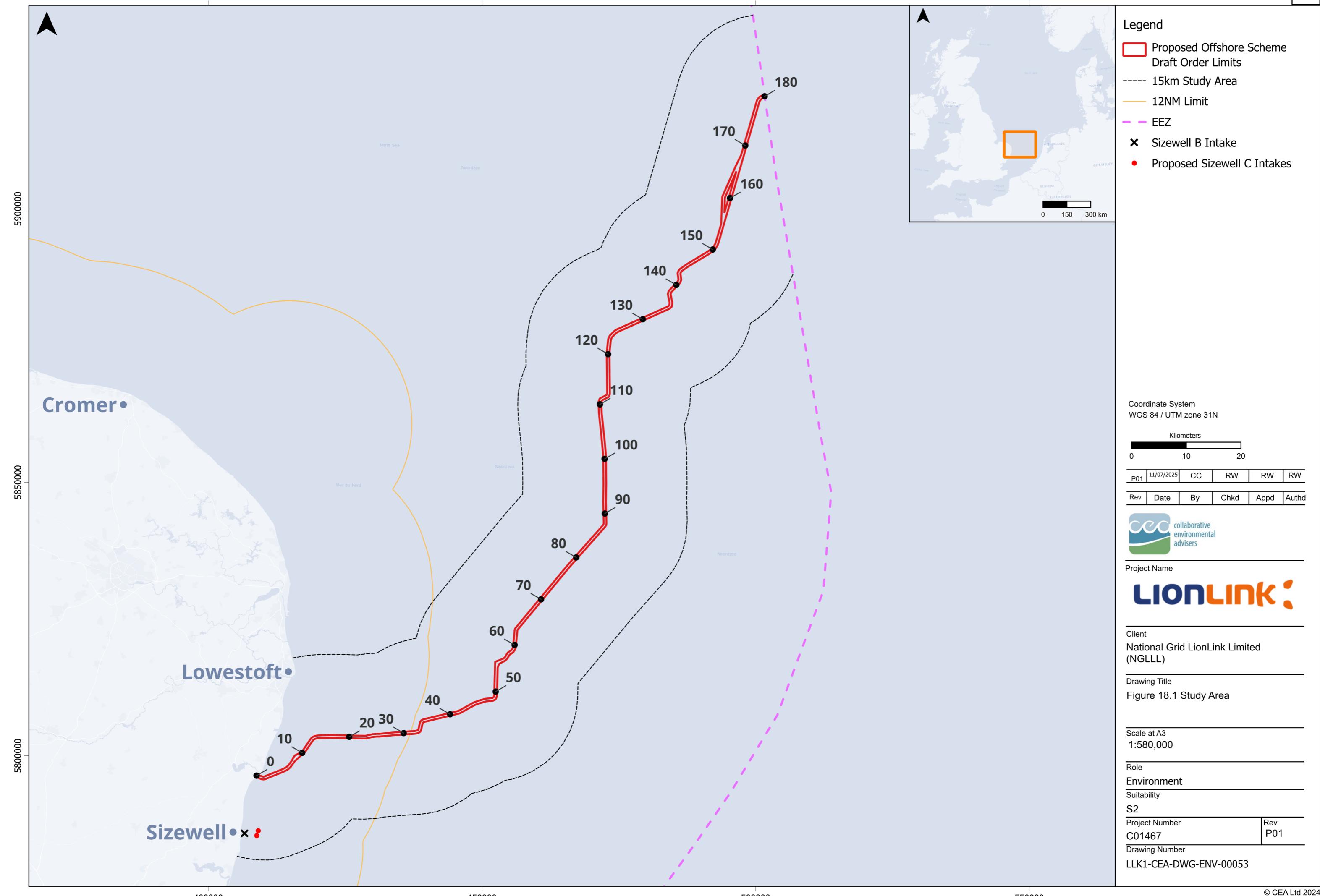
Figure 18.9 Annual mean Suspended Sediment Concentration (SSC)

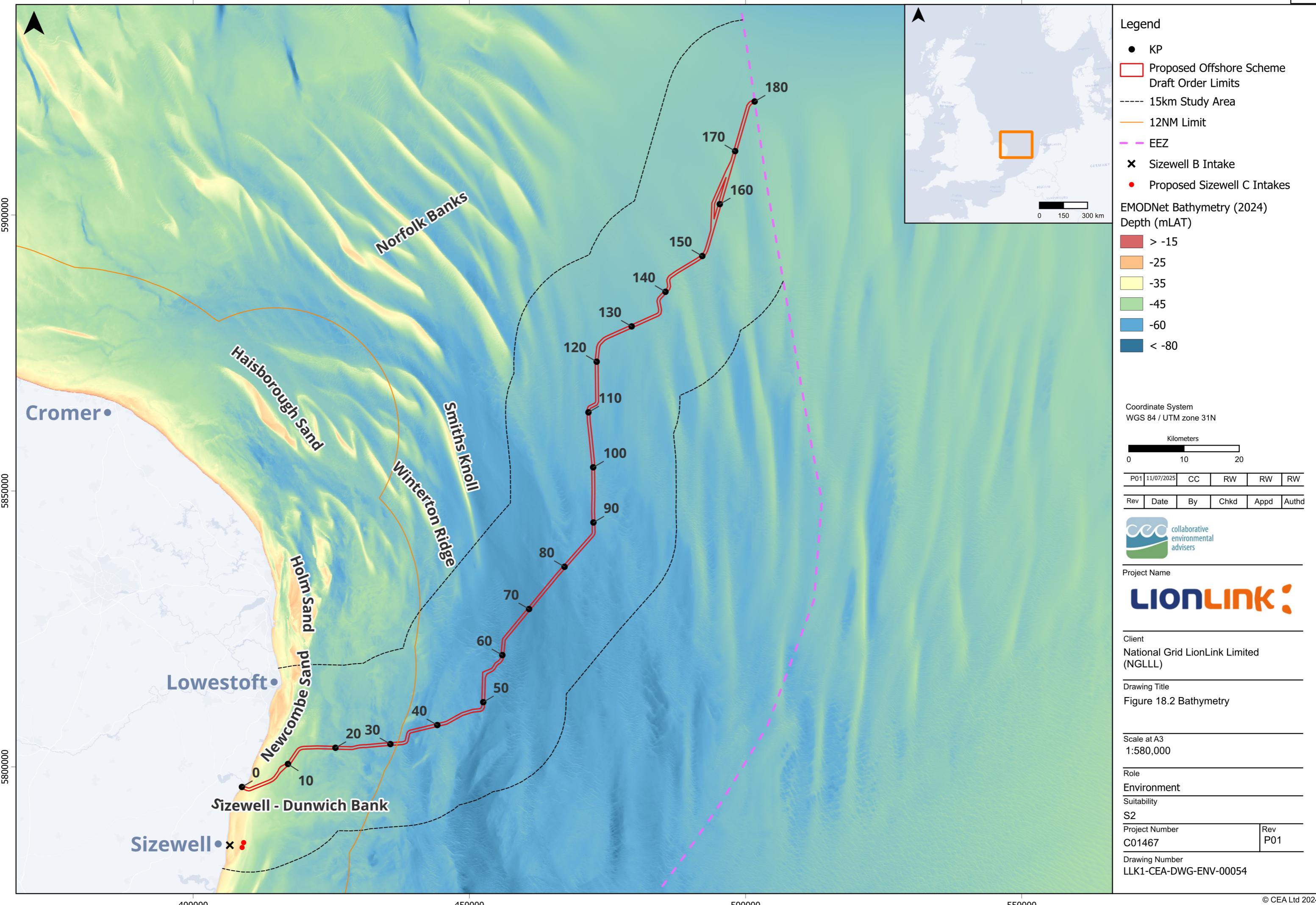
Figure 18.10 Seasonal mean SSC – winter (January) and summer (June)

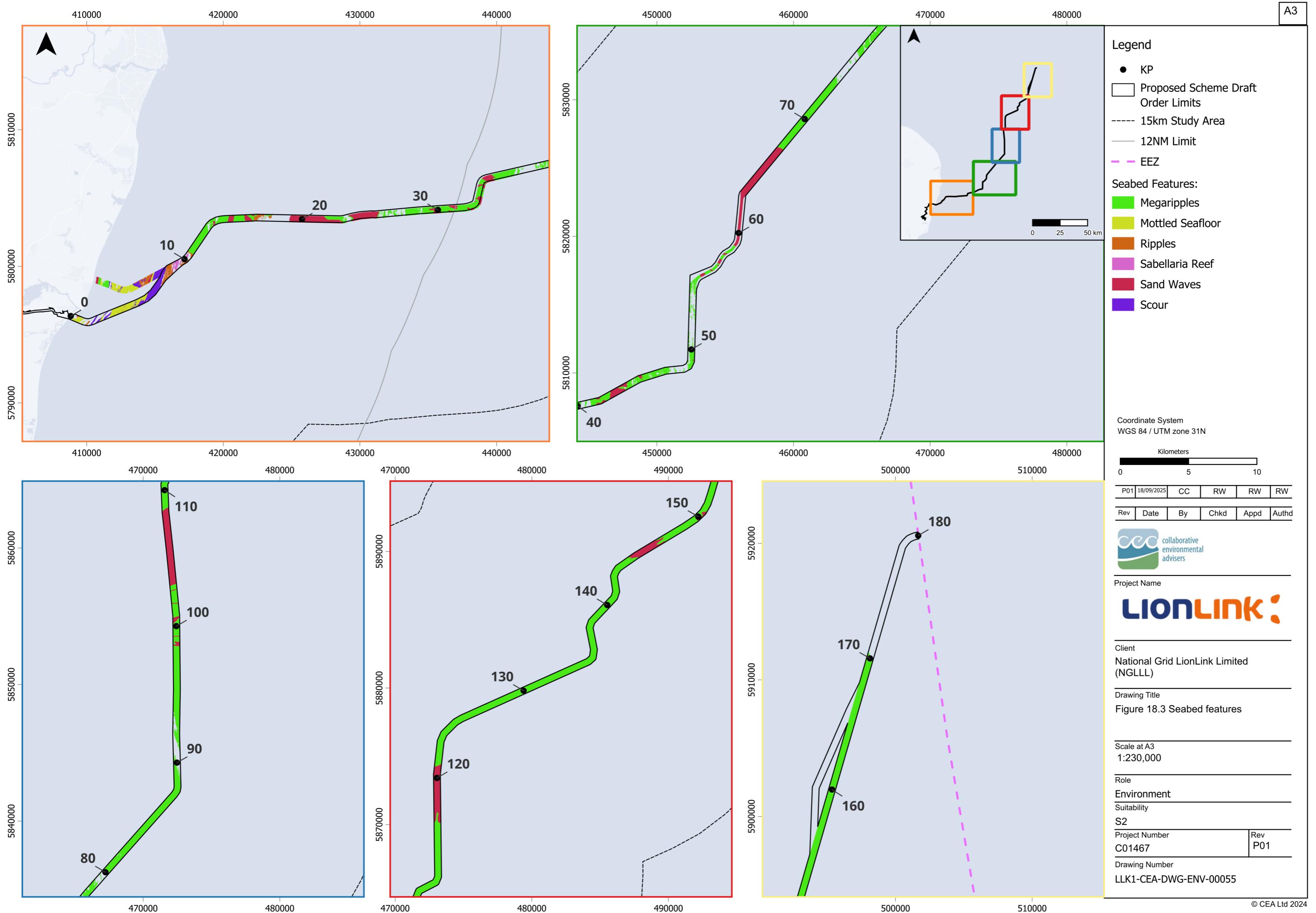
Figure 18.11 Arsenic contamination from sediment samples

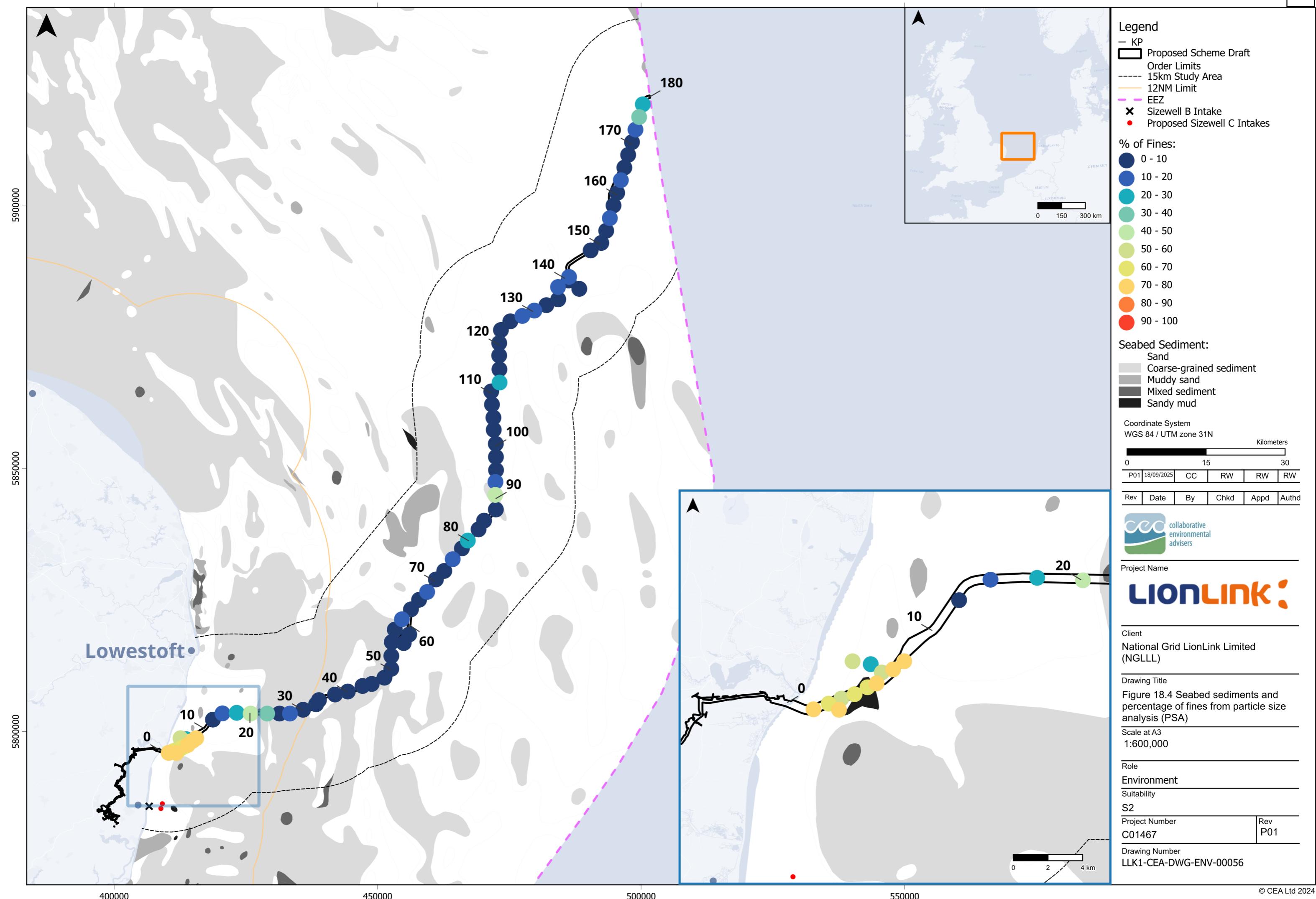
Figure 18.12 Designated sites in the Study Area and surrounding area

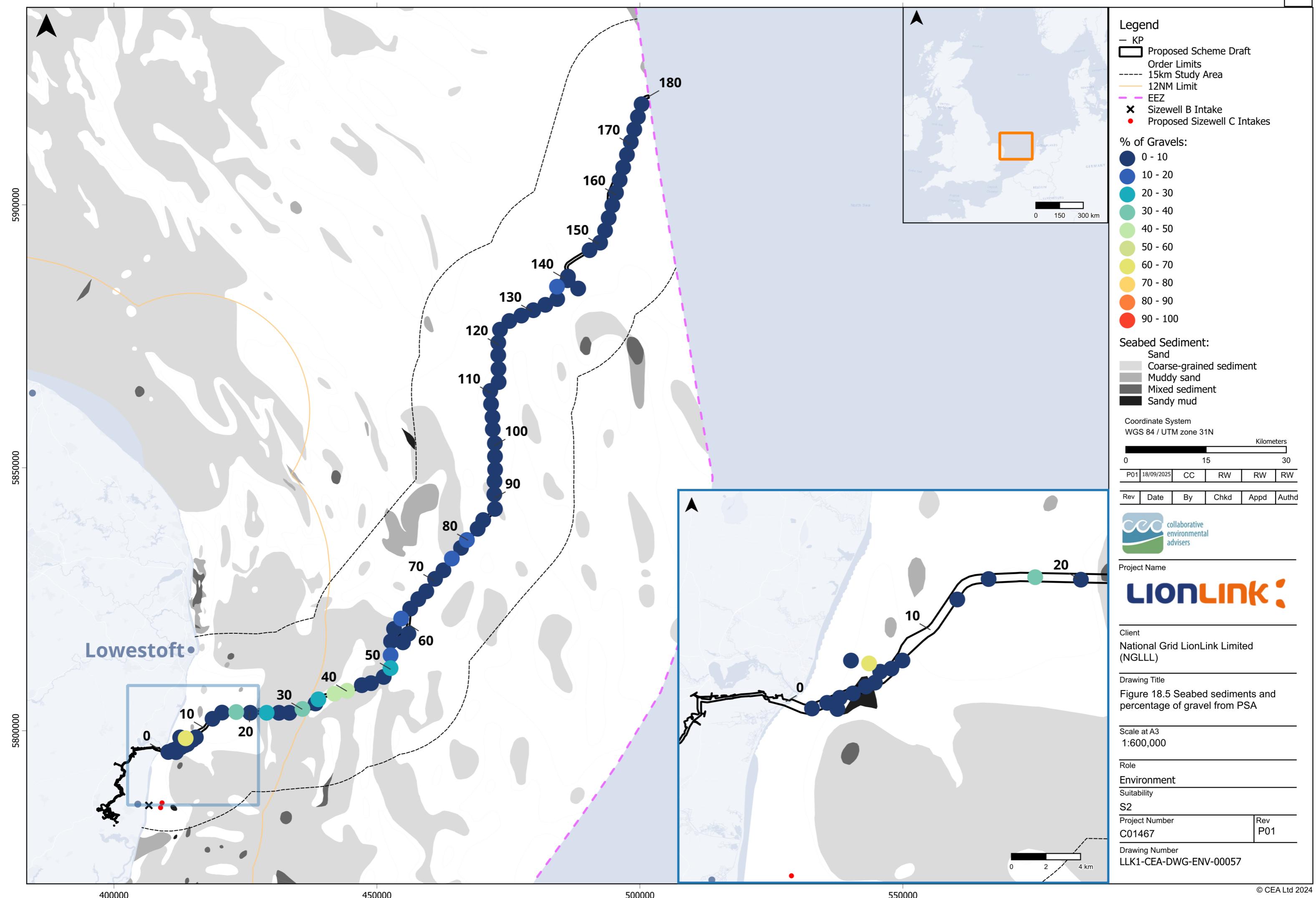
Figure 18.13 Sandwave pre-sweeping areas

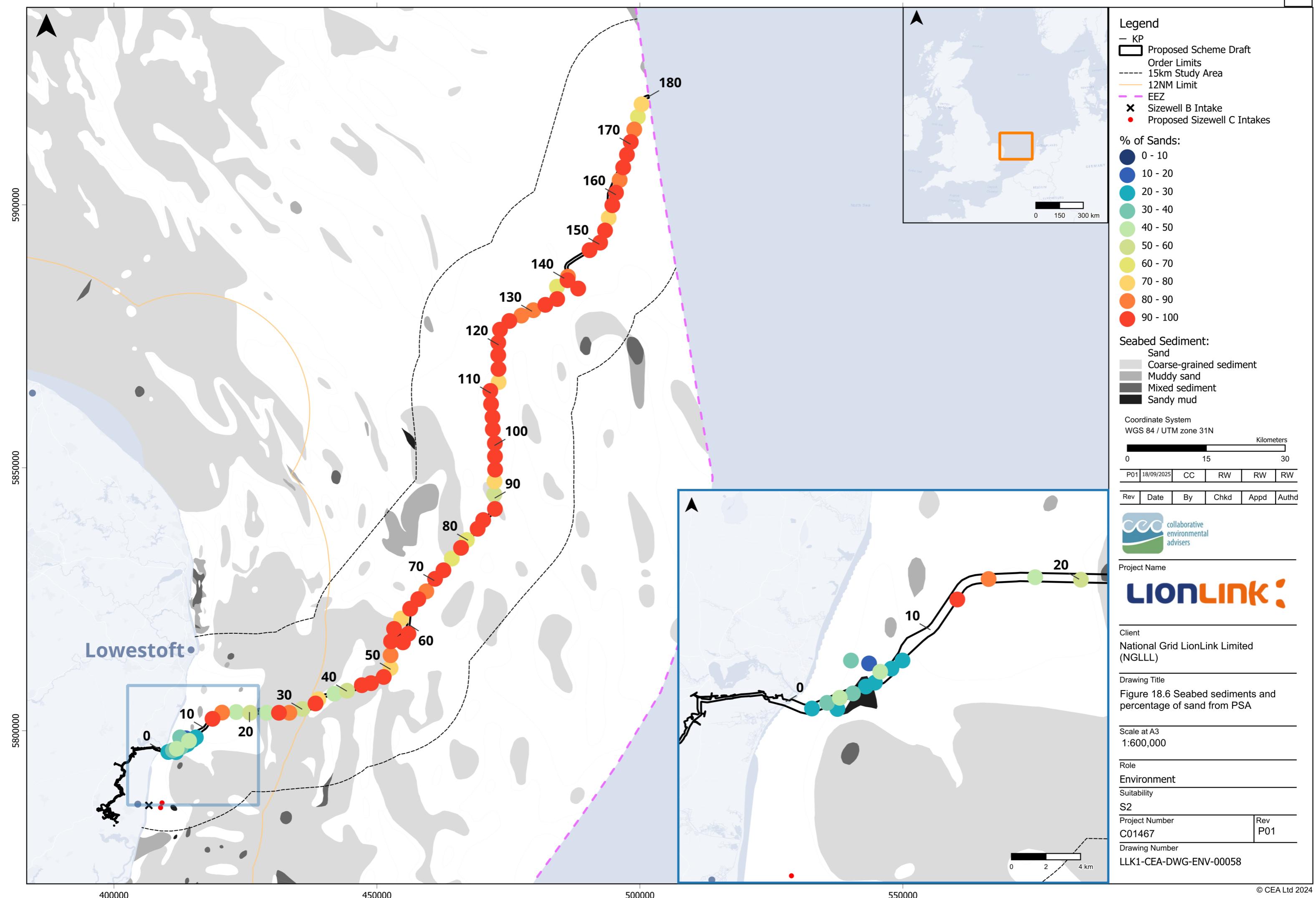




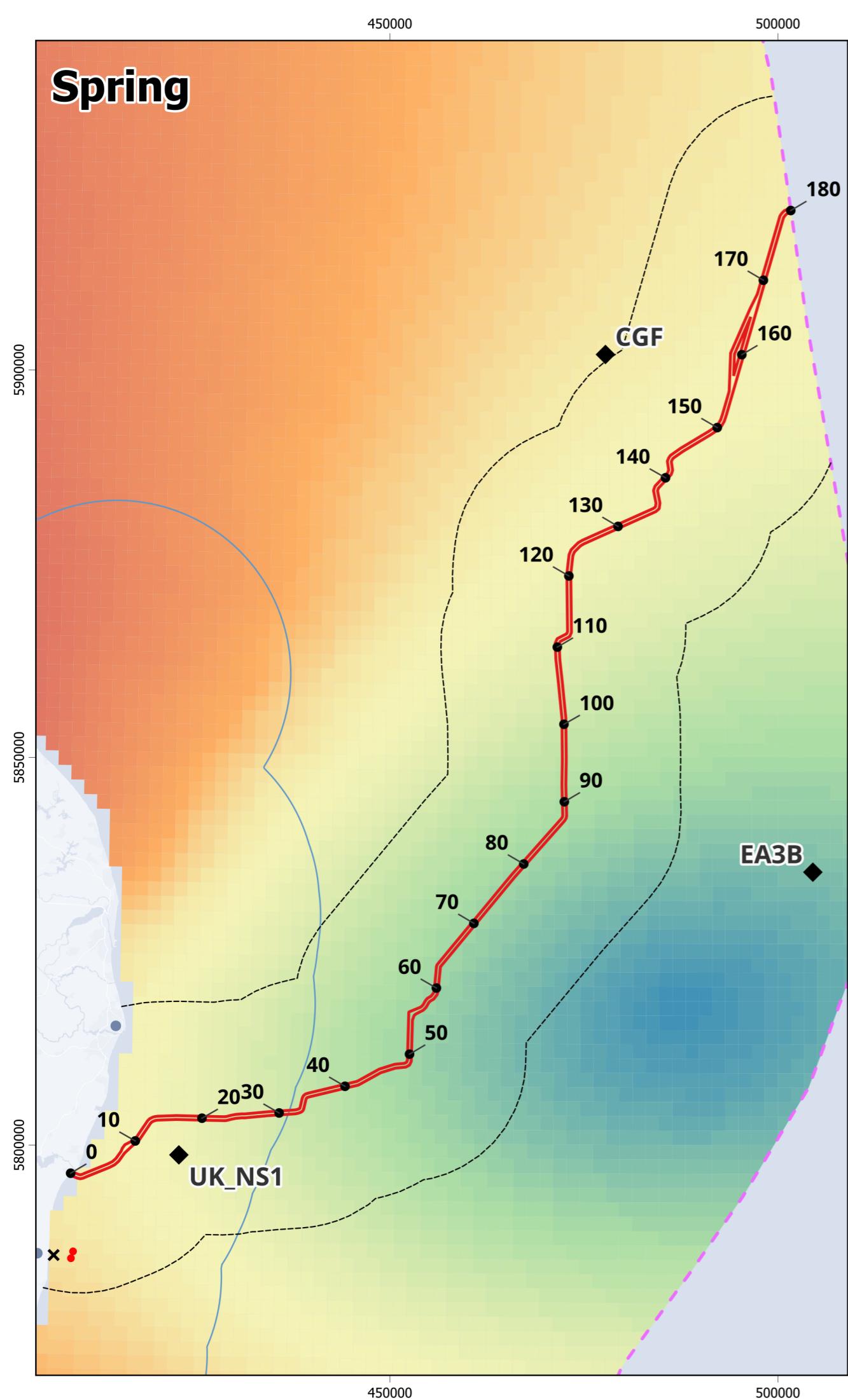




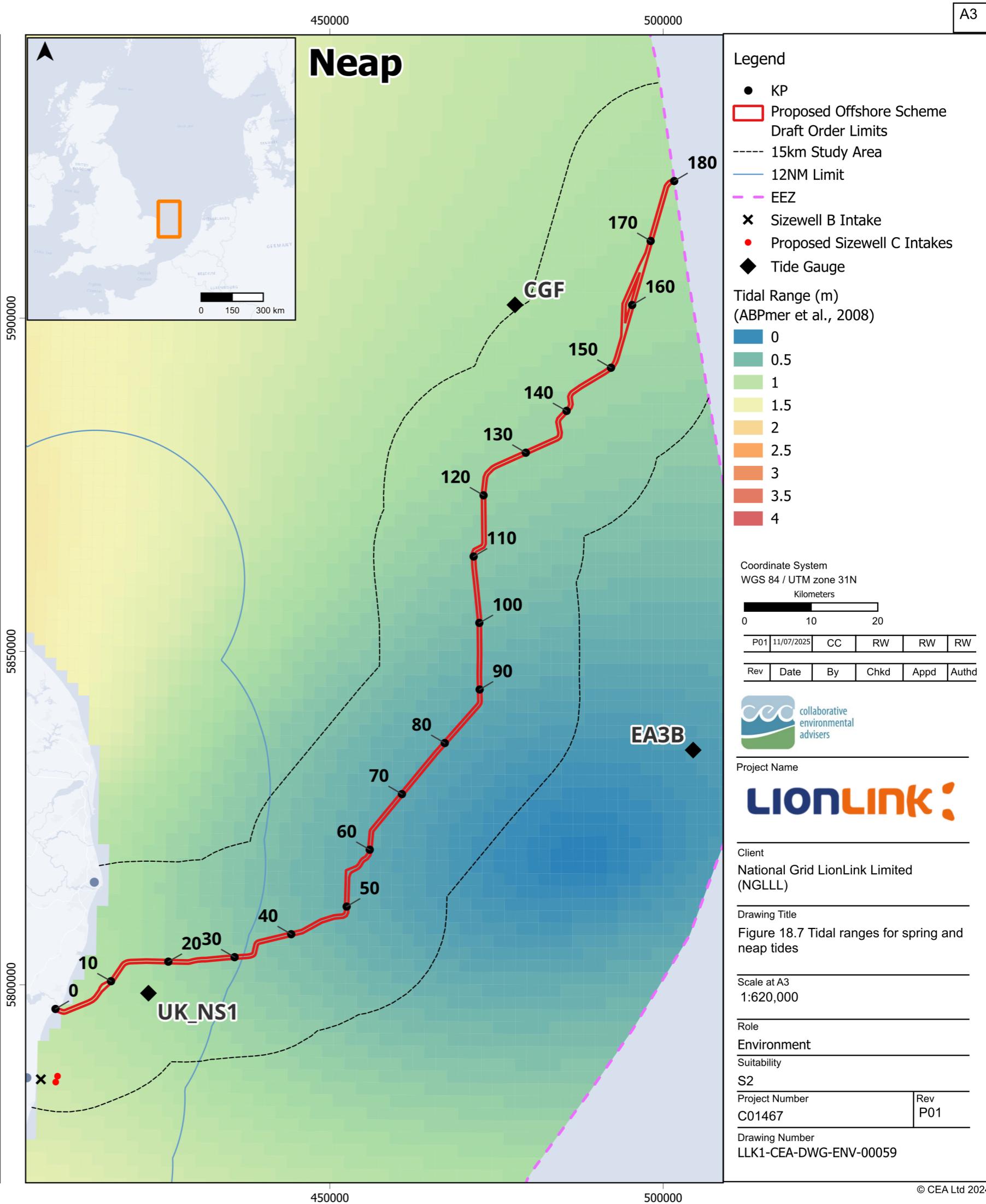




Spring



Neap



Legend

- KP
- Proposed Offshore Scheme
- Draft Order Limits
- 15km Study Area
- 12NM Limit
- - - EEZ
- ✖ Sizewell B Intake
- Proposed Sizewell C Intakes
- ◆ Tide Gauge

Tidal Range (m)
(ABPmer et al., 2008)

0
0.5
1
1.5
2
2.5
3
3.5
4

Coordinate System
WGS 84 / UTM zone 31N

Kilometers
0 10 20

P01 11/07/2025 CC RW RW RW

Rev Date By Chkd Appd Authd



Project Name

LIONLINK

Client
National Grid LionLink Limited
(NGLL)

Drawing Title
Figure 18.7 Tidal ranges for spring and neap tides

Scale at A3
1:620,000

Role
Environment

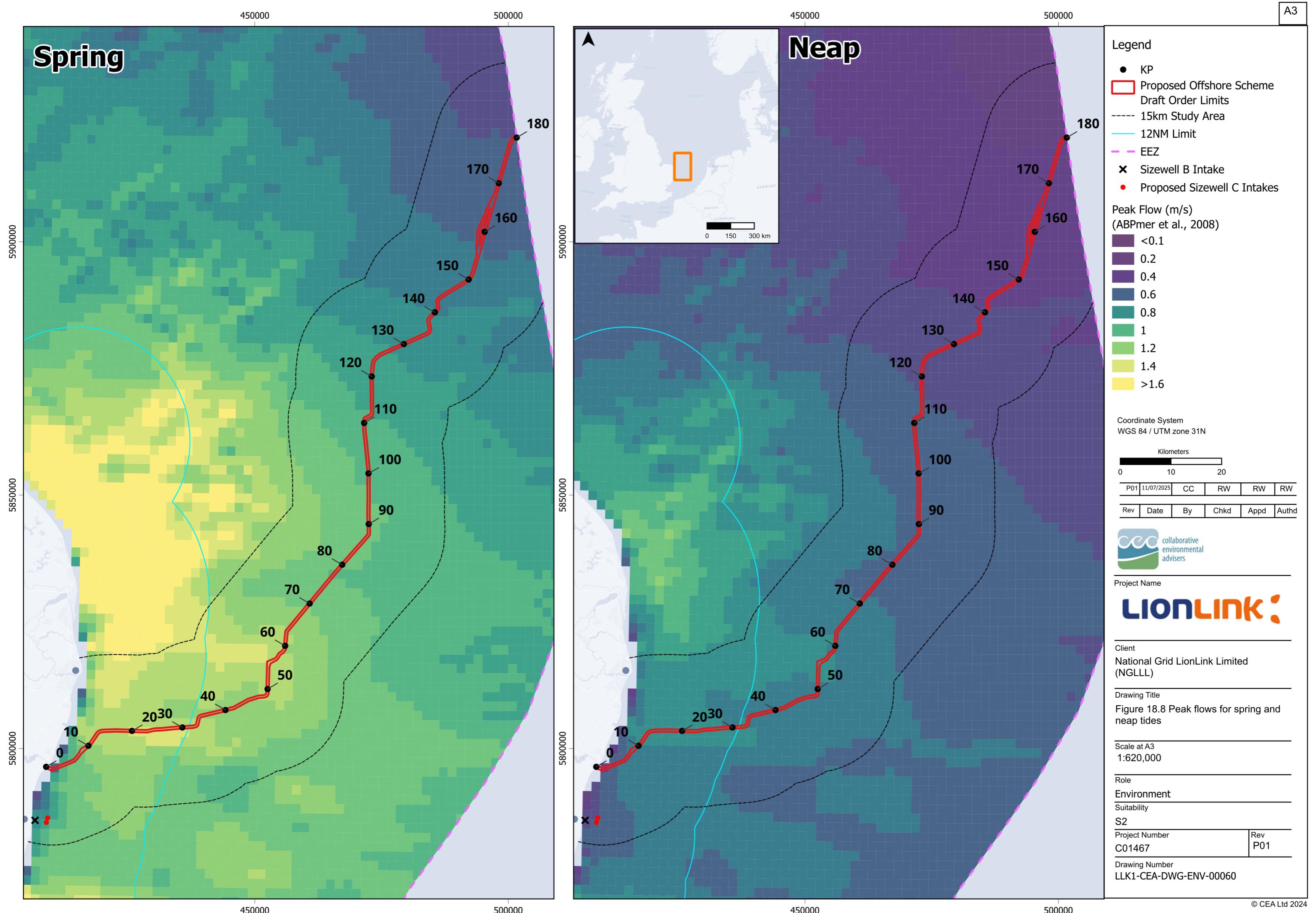
Suitability

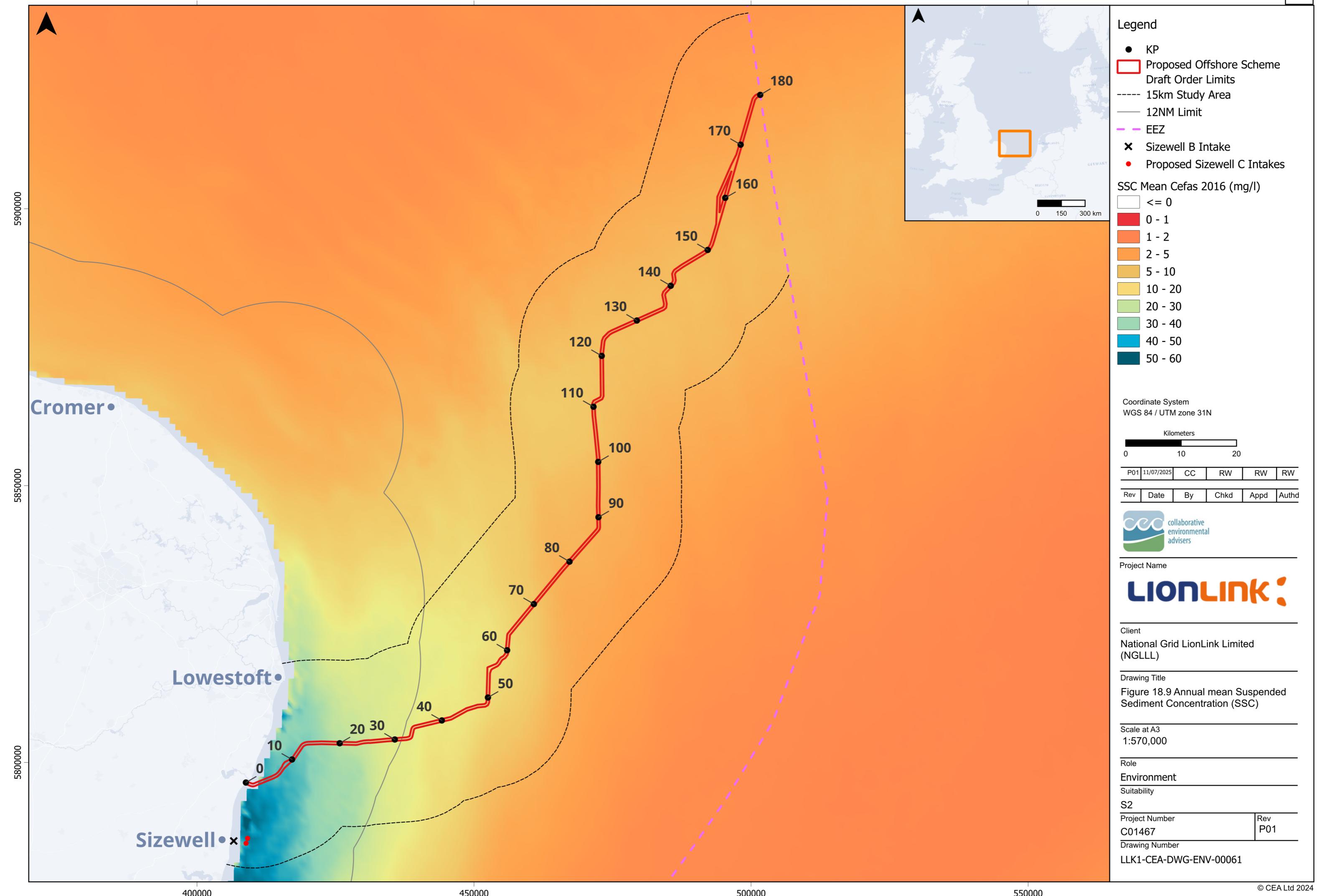
S2

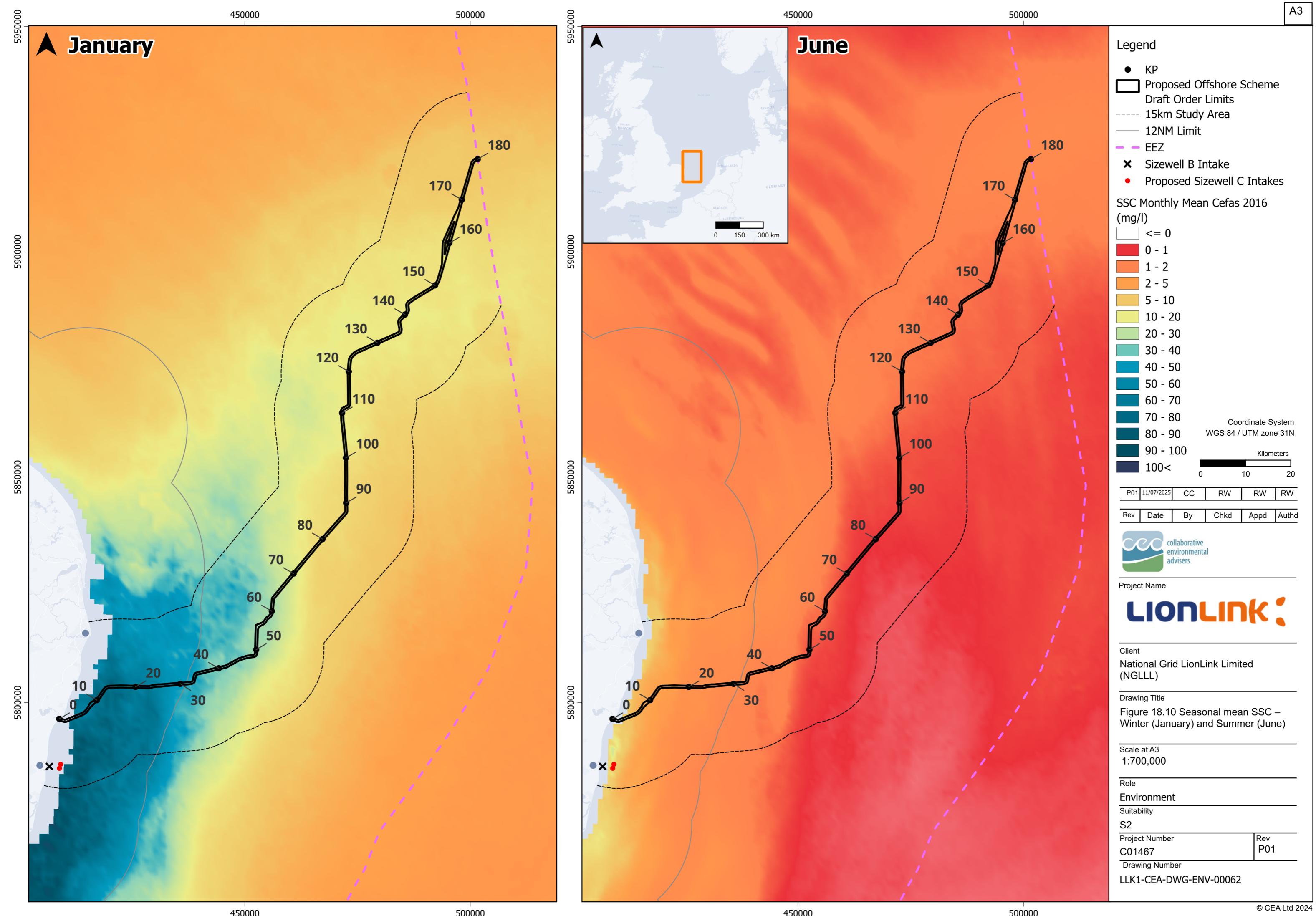
Project Number
C01467

Rev
P01

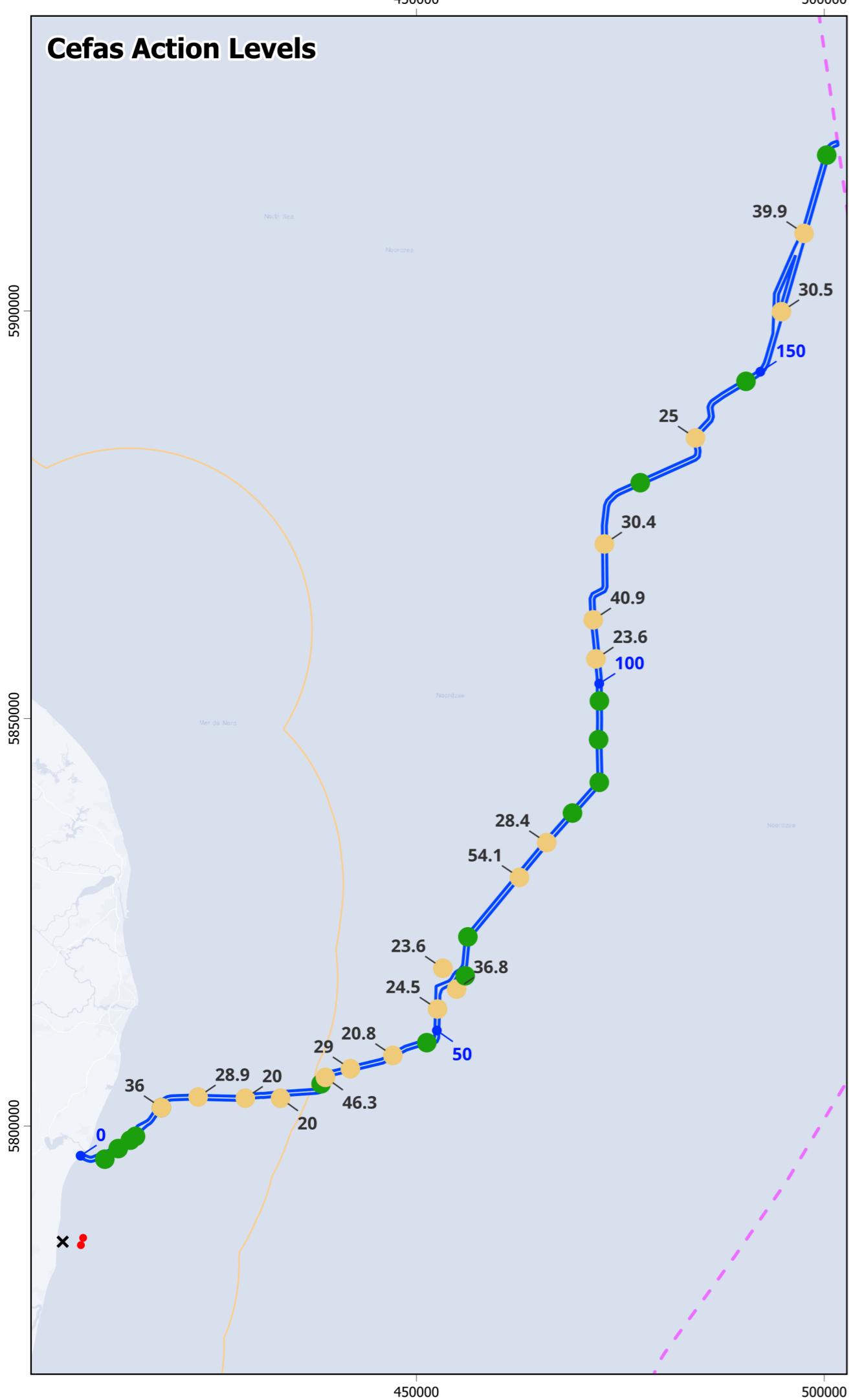
Drawing Number
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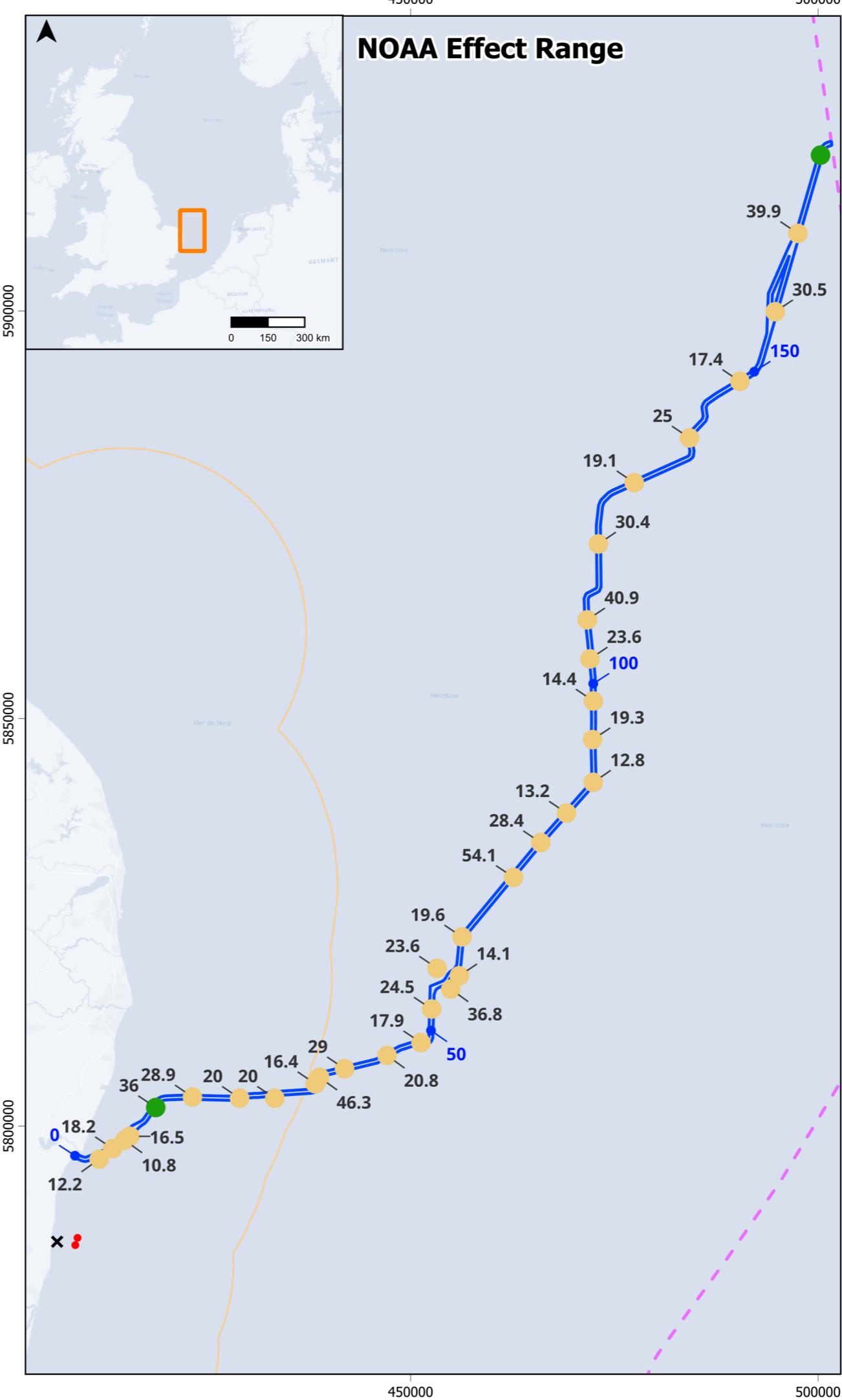




Cefas Action Levels



NOAA Effect Range



Legend

- KP
- Proposed Offshore Scheme
- Draft Order Limits
- 15km Study Area
- 12NM Limit
- EEZ
- ✖ Sizewell B Intake
- Proposed Sizewell C Intakes

Cefas Action Level (ppm):

- Below AL1
- AL1: 20
- AL2: 100

NOAA Effect Range, OSPAR (ppm):

- Below ER
- ERL: 8.2
- ERM: 70

Coordinate System
WGS 84 / UTM zone 31N

Kilometers
0 15 30

P01 11/07/2025 CC RW RW RW

Rev Date By Chkd Appd Authd



Project Name

LIONLINK

Client
National Grid LionLink Limited (NGLL)

Drawing Title
Figure 18.11 Arsenic contamination from sediment samples

Scale at A3
1:600,000

Role
Environment

Suitability

S2

Project Number
C01467

Rev
P01

Drawing Number
LLK1-CEA-DWG-ENV-00063

