



# Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects

Environmental Statement

**Volume 2**

Chapter 7 - Marine Water and Sediment Quality

August 2022

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APFP Regulation: 5(2)(a)

Title: <b>Sheringham Shoal and Dudgeon Offshore Wind Farm Extension Projects Environmental Statement (Volume 2) Chapter 7: Marine Water and Sediment Quality</b>	
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Prepared by:	
<b>Royal HaskoningDHV</b>	
Approved by:	Date:
<b>Sarah Chandler, Equinor</b>	August 2022

### List of Figures

Figure 7.1 WFD Water Bodies

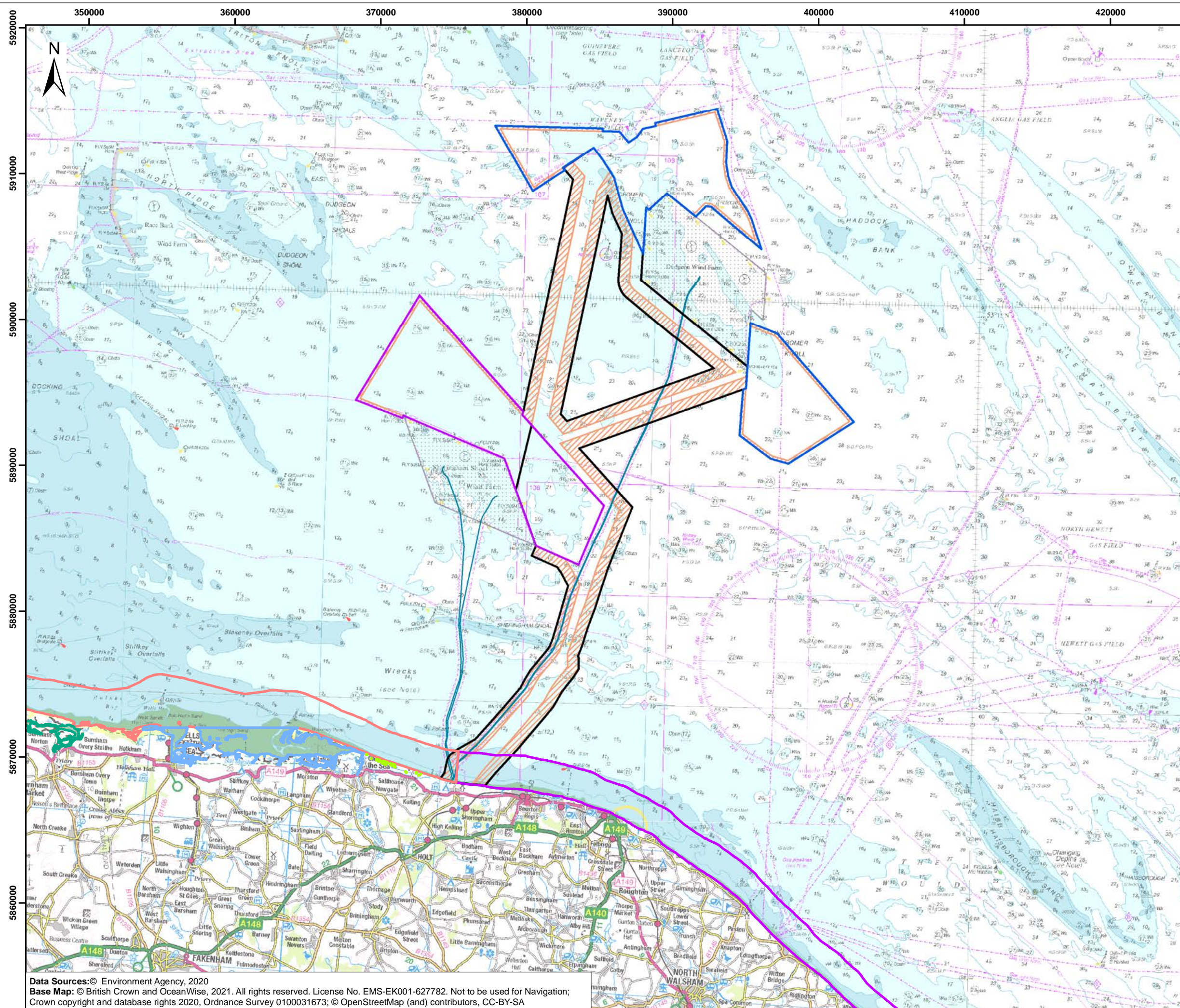
Figure 7.2 Bathing Water Locations

Figure 7.3 SEP and DEP Sediment Fractional Composition and Classification

Figure 7.4 SOW and DOW Post Construction Sediment Fractional Composition and Classification

Figure 7.5 Sediment Chemistry Sampling Locations





# Sheringham Shoal and Dudgeon Extension Projects

Title:  
Figure 7.1 WFD Water Bodies

Document:  
Environmental Statement (ES)  
Chapter 7 Marine Sediment and Water Quality

Application Doc. no.: 6.2.7

- Legend:
- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
  - Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
  - Offshore Cable Corridors
  - Existing Offshore Wind Farm Export Cable
  - Offshore Temporary Work Area
  - Existing Offshore Wind Farm
  - Burn WFD Transitional Water Body
  - Blakeney Spit Lagoon WFD Coastal Water Body
  - Norfolk East WFD Coastal Water Body
  - Norfolk North WFD Coastal Water Body
  - Stiffkey & Glaven WFD Transitional Water Body



Coordinate Reference System: WGS 1984 UTM Zone 31N  
Transformation WGS84: OSGB\_1936\_To\_WGS\_1984\_7

0 4 8 12 km  
0 4 8 Miles

Scale: 1:250,000      Scale at size: A3

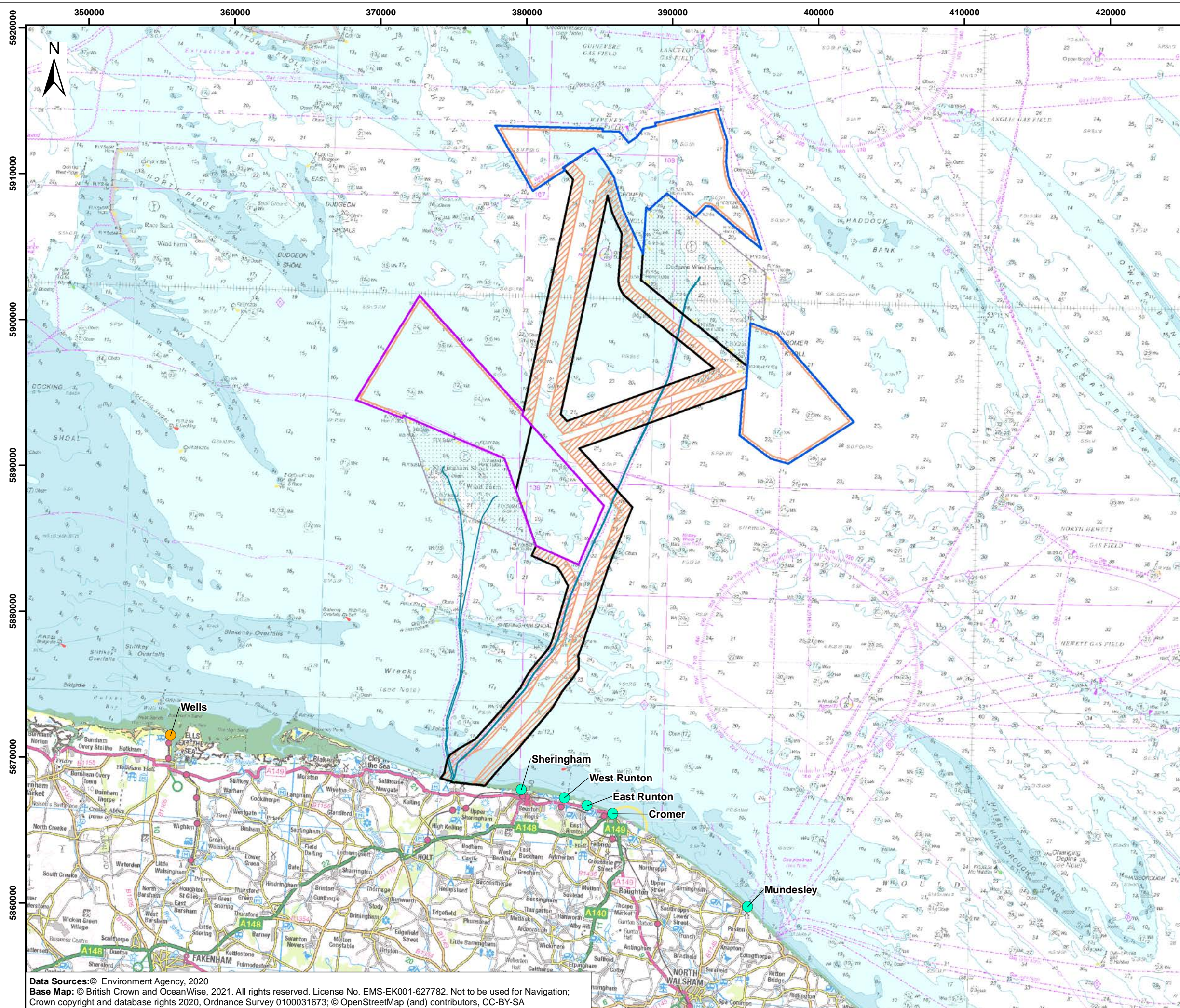
Equinor Doc. no.: C282-RH-Z-GA-00050  
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# Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 7.2 Bathing Water Locations

Document: Environmental Statement (ES)  
Chapter 7 Marine Sediment and Water Quality

Application Doc. no.: 6.2.7

- Legend:
- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
  - Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
  - Offshore Cable Corridors
  - Existing Offshore Wind Farm Export Cable
  - Offshore Temporary Work Area
  - Existing Offshore Wind Farm
- Bathing Water Monitoring Location Classification**
- Excellent
  - Sufficient



Coordinate Reference System: WGS 1984 UTM Zone 31N  
Transformation WGS84: OSGB\_1936\_To\_WGS\_1984\_7

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Equinor Doc. no.: C282-RH-Z-GA-00050  
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# Sheringham Shoal and Dudgeon Extension Projects

Title:  
Figure 7.3 Sediment Fractional Composition and Classification  
Sheet 1 of 3

Document:  
Environmental Statement (ES)  
Chapter 7 Marine Sediment and Water Quality

Application Doc. no.: 6.2.7

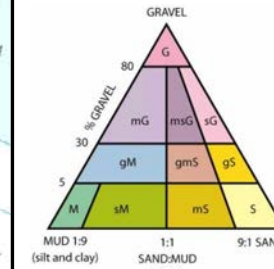
### Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Existing Offshore Wind Farm Export Cable
- Offshore Temporary Work Area
- Existing Offshore Wind Farm

### Fractional Sediment Composition

- Gravel
- Sand
- Fines

### Sediment Classification (Folk BGS Modified)



Coordinate Reference System: WGS 1984 UTM Zone 31N

Transformation WGS84: OSGB\_1936\_To\_WGS\_1984\_7



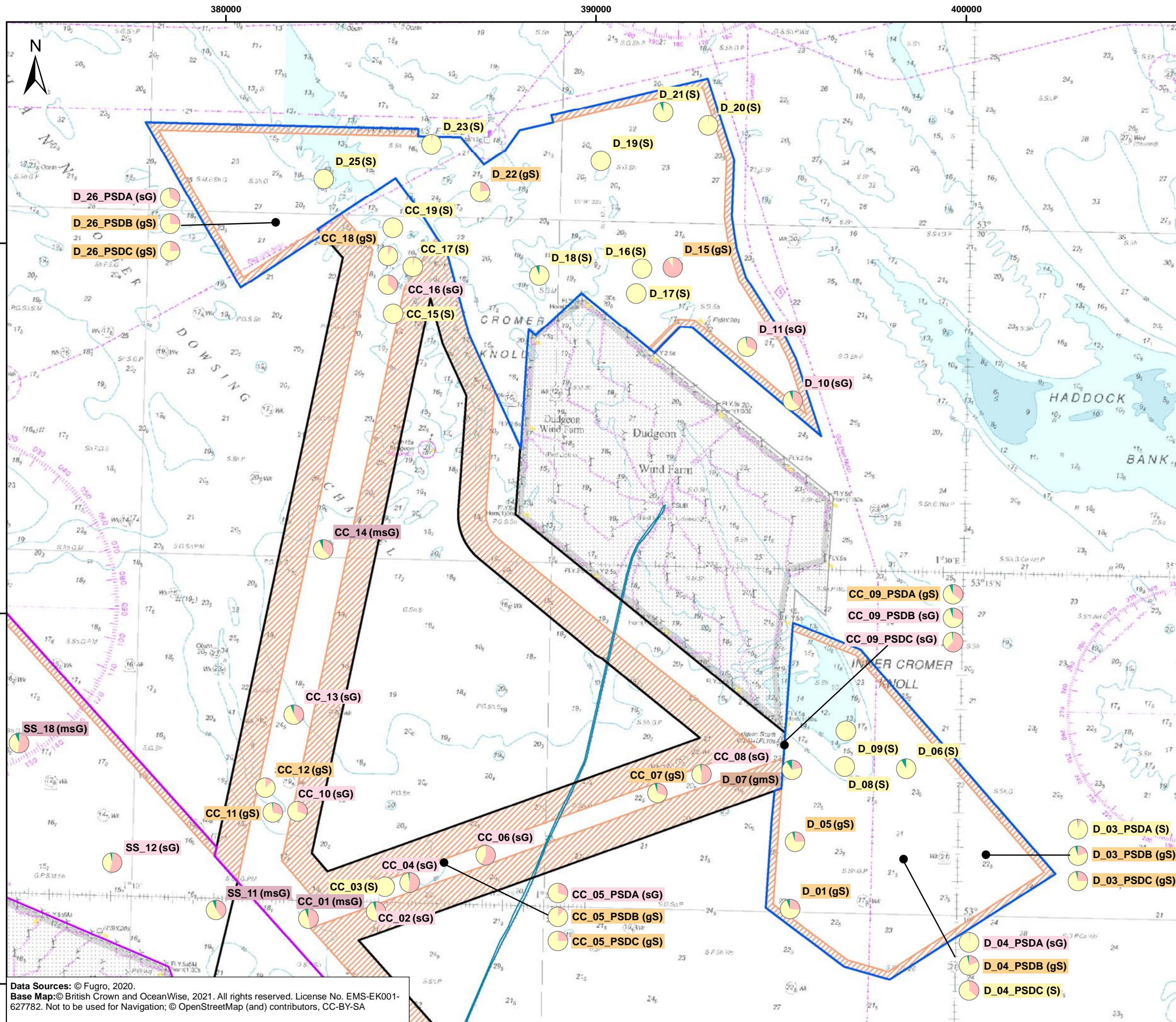
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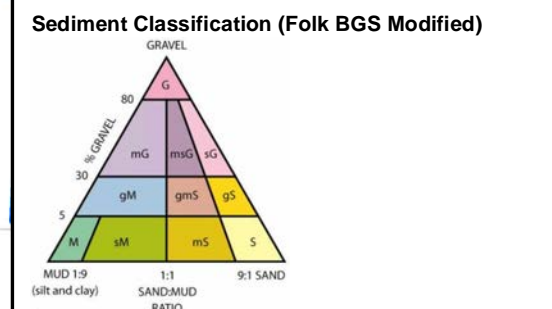
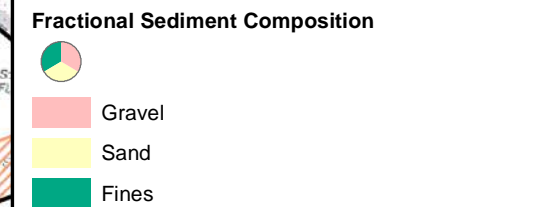


# Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 7.3 Sediment Fractional Composition and Classification  
Sheet 2 of 3

Document: Environmental Statement (ES)  
Chapter 7 Marine Sediment and Water Quality  
Application Doc. no.: 6.2.7

- Legend:
- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
  - Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
  - Offshore Cable Corridors
  - Existing Offshore Wind Farm Export Cable
  - Offshore Temporary Work Area
  - Existing Offshore Wind Farm

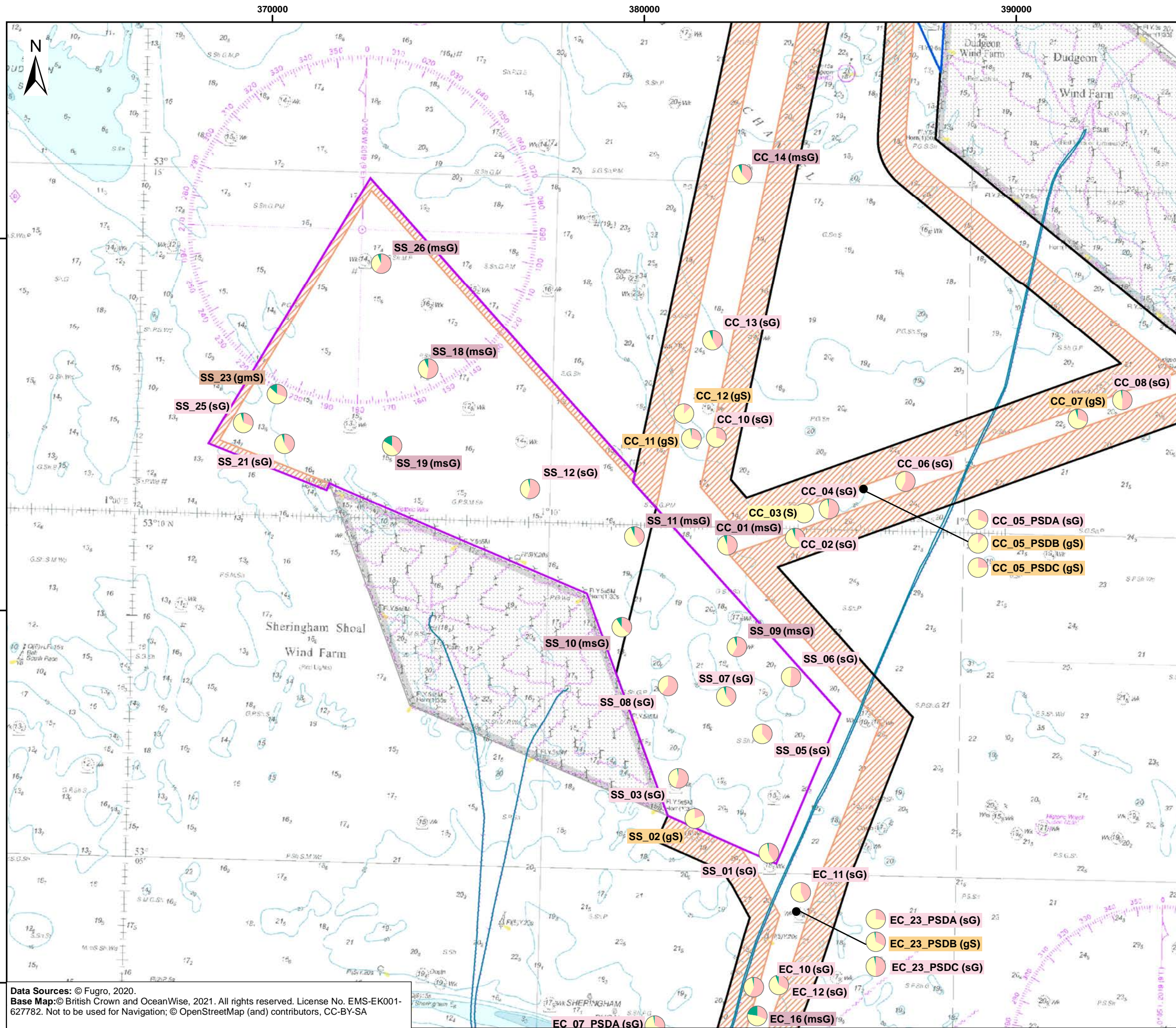


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# Sheringham Shoal and Dudgeon Extension Projects

Title:  
Figure 7.3 Sediment Fractional Composition and Classification  
Sheet 3 of 3




Document:  
Environmental Statement (ES)  
Chapter 7 Marine Sediment and Water Quality

Application Doc. no.: 6.2.7

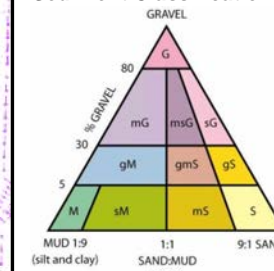
Legend:

-  Sheringham Shoal Offshore Wind Farm
-  Extension Project Wind Farm Site
-  Offshore Cable Corridors
-  Existing Offshore Wind Farm Export Cable
-  Offshore Temporary Work Area
-  Existing Offshore Wind Farm

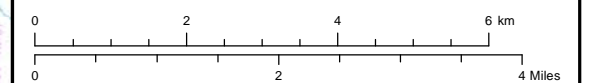
### Fractional Sediment Composition

-  Gravel
-  Sand
-  Fines

### Sediment Classification (Folk BGS Modified)



Coordinate Reference System: WGS 1984 UTM Zone 31N  
Transformation WGS84: OSGB\_1936\_To\_WGS\_1984\_7

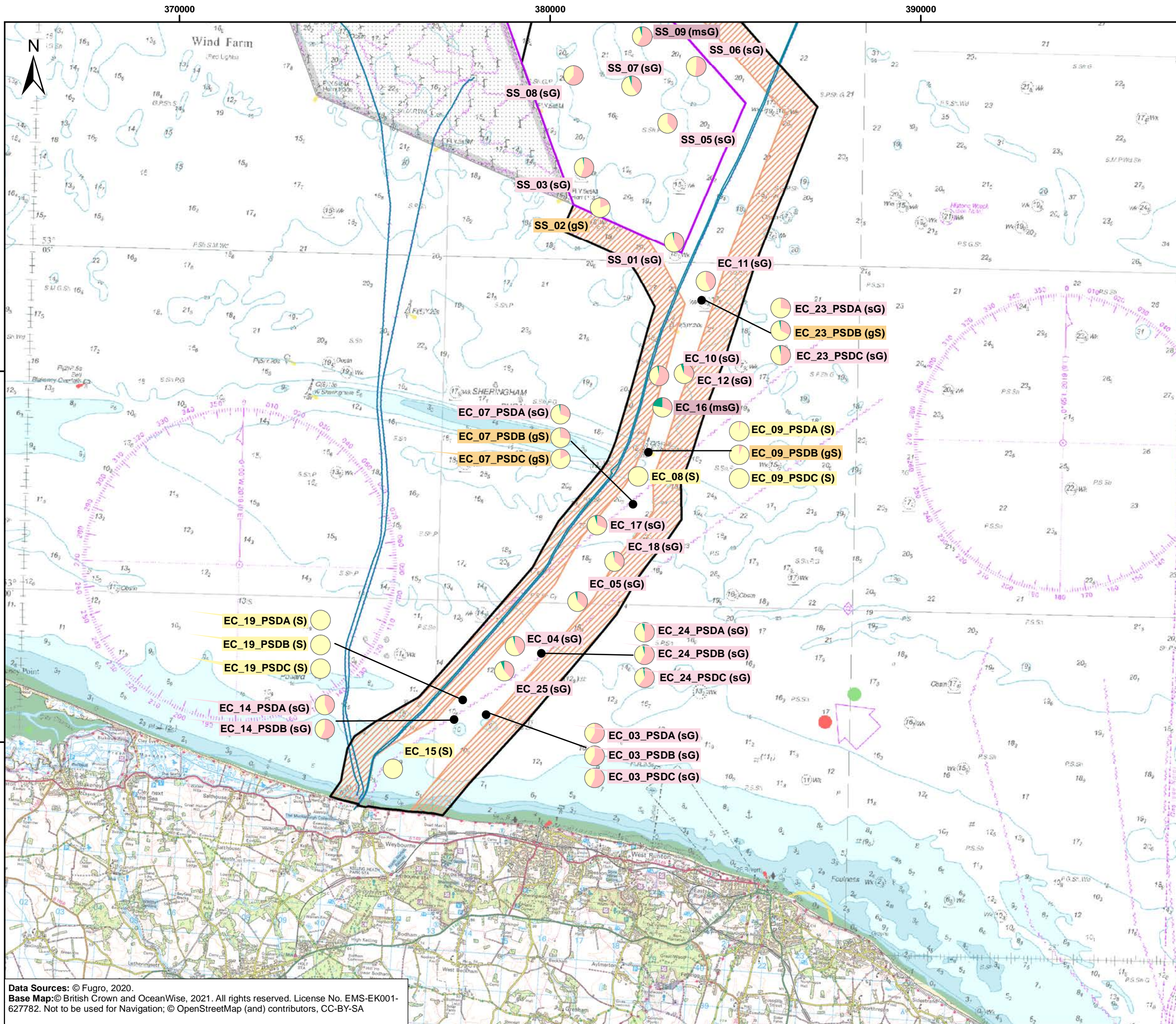


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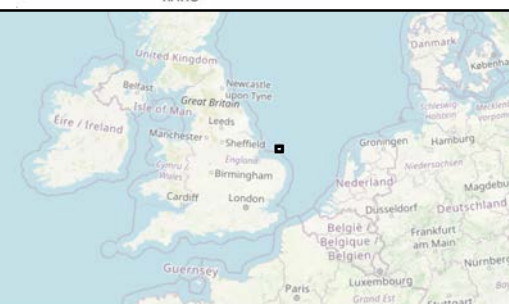
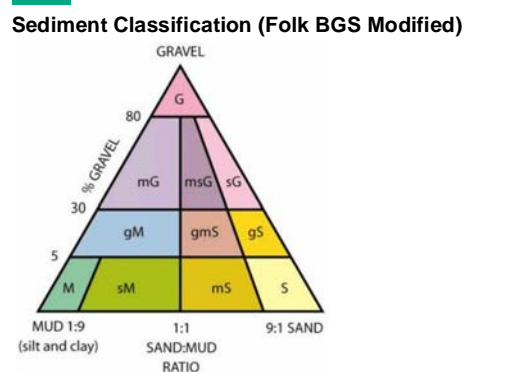


# Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 7.4 SOW and DOW  
Post Construction Sediment Fractional Composition and Classification  
Sheet 1 of 3

Document: Environmental Statement (ES)  
Chapter 7 Marine Sediment and Water Quality  
Application Doc. no.: 6.1.7

- Legend:
- Dudgeon Offshore Wind Farm Extension
  - Project Wind Farm Site
  - Offshore Cable Corridors
  - Existing Offshore Wind Farm Export Cable
  - Offshore Temporary Work Area
  - Existing Offshore Wind Farm

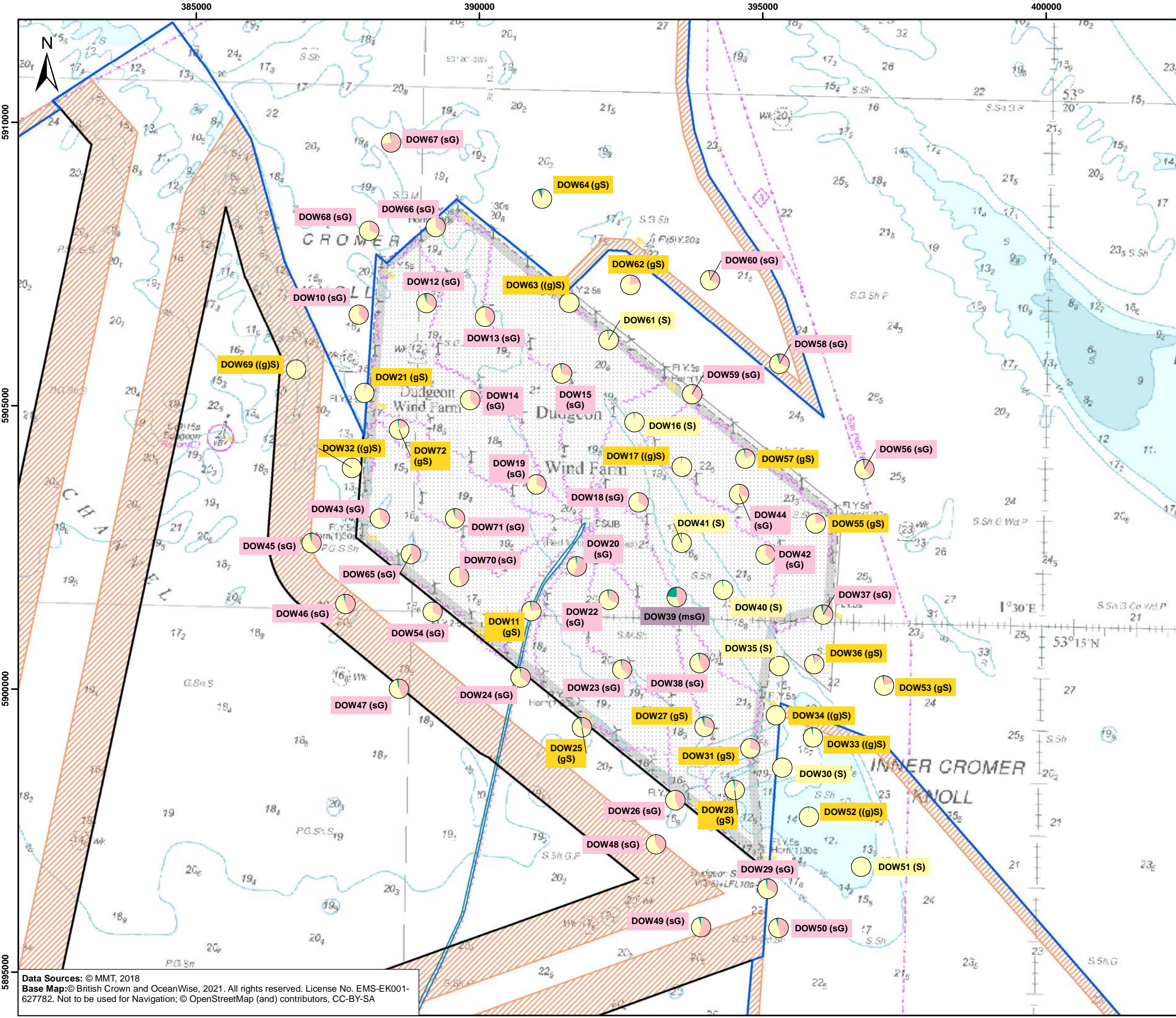


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Transformation WGS84: OSGB\_1936\_To\_WGS\_1984\_7

Equinor Doc. no.: C282-RH-Z-GA-00050  
RHDHV Doc. no.: PB8164\_RHD\_ZZ\_OF\_DR\_Z\_0213

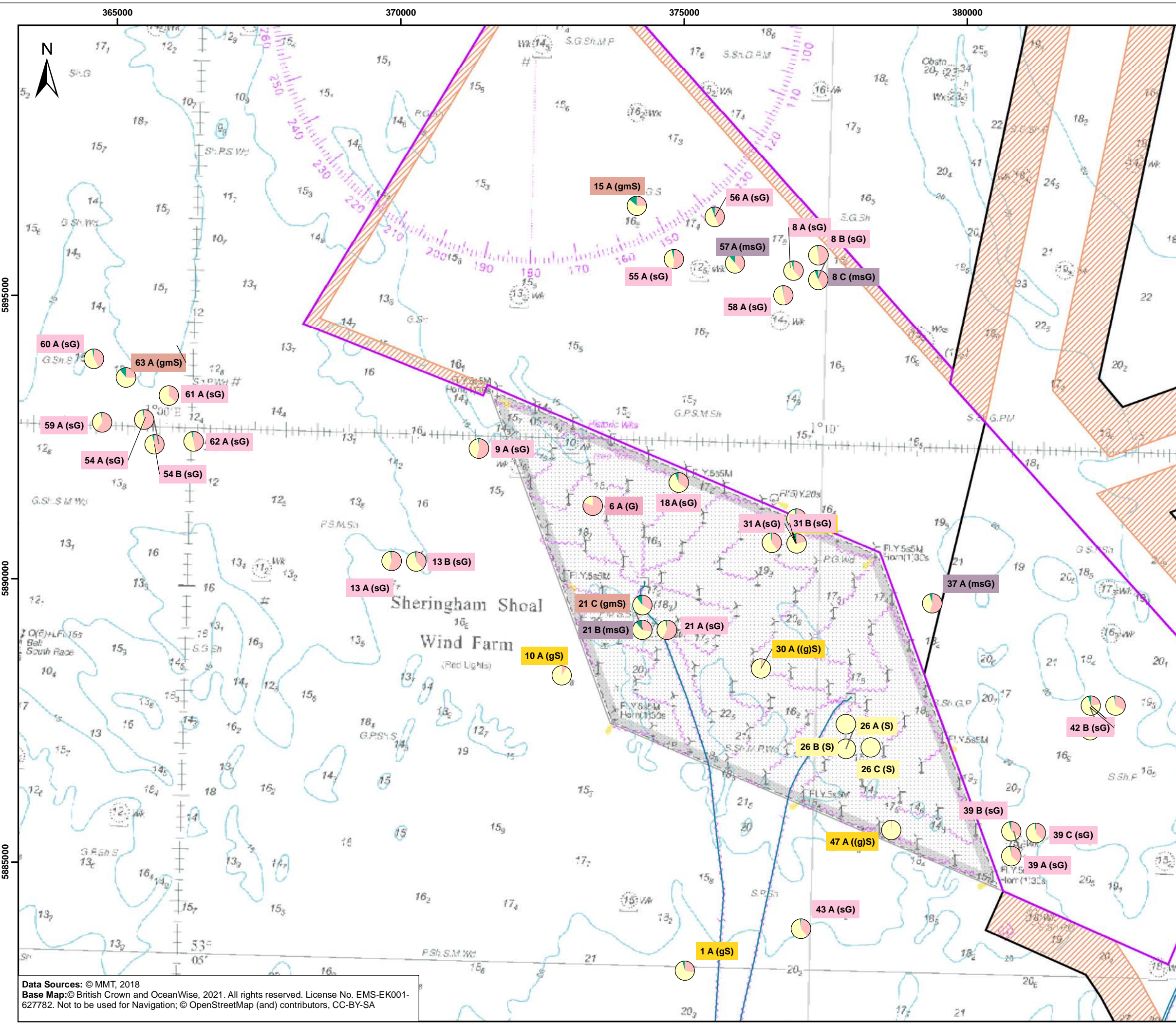
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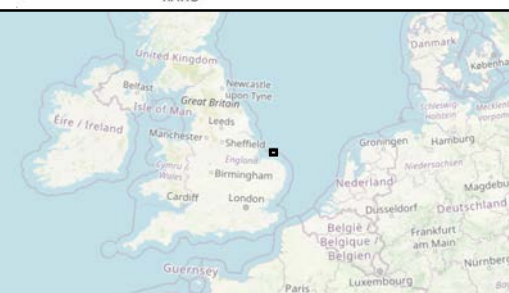
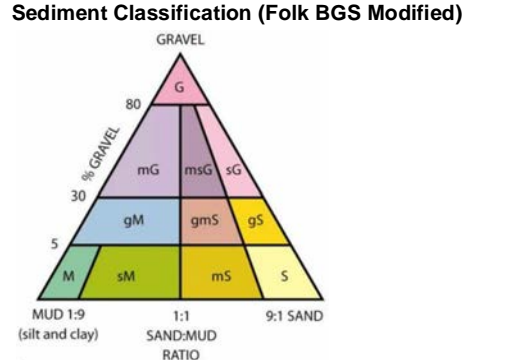
# Sheringham Shoal and Dudgeon Extension Projects

## Figure 7.4 SOW and DOW Post Construction Sediment Fractional Composition and Classification

Sheet 2 of 3

Title: Environmental Statement (ES)  
Chapter 7 Marine Sediment and Water Quality  
Application Doc. no.: 6.1.7

- Legend:
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
  - Offshore Cable Corridors
  - Existing Offshore Wind Farm Export Cable
  - Offshore Temporary Work Area
  - Existing Offshore Wind Farm
- Fractional Sediment Composition
- Gravel
  - Sand
  - Fines



Coordinate Reference System: WGS 1984 UTM Zone 31N  
Transformation WGS84: OSGB\_1936\_To\_WGS\_1984\_7

Scale: 1:65,000      Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00050  
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# Sheringham Shoal and Dudgeon Extension Projects

Title: Figure 7.4 SOW and DOW  
 Post Construction Sediment Fractional Composition and Classification  
 Sheet 3 of 3

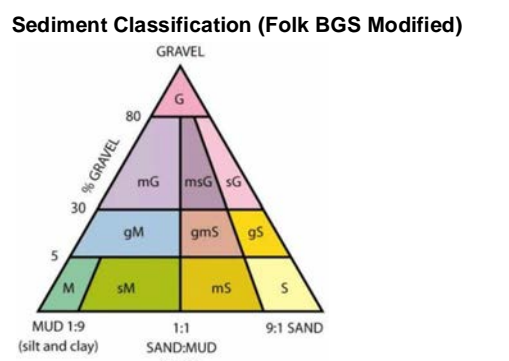
Document: Environmental Statement (ES)  
 Chapter 7 Marine Sediment and Water Quality  
 Application Doc. no.: 6.1.7

**Legend:**

- Offshore Cable Corridors
- Existing Offshore Wind Farm Export Cable
- Offshore Temporary Work Area

**Fractional Sediment Composition**

- Gravel
- Sand
- Fines

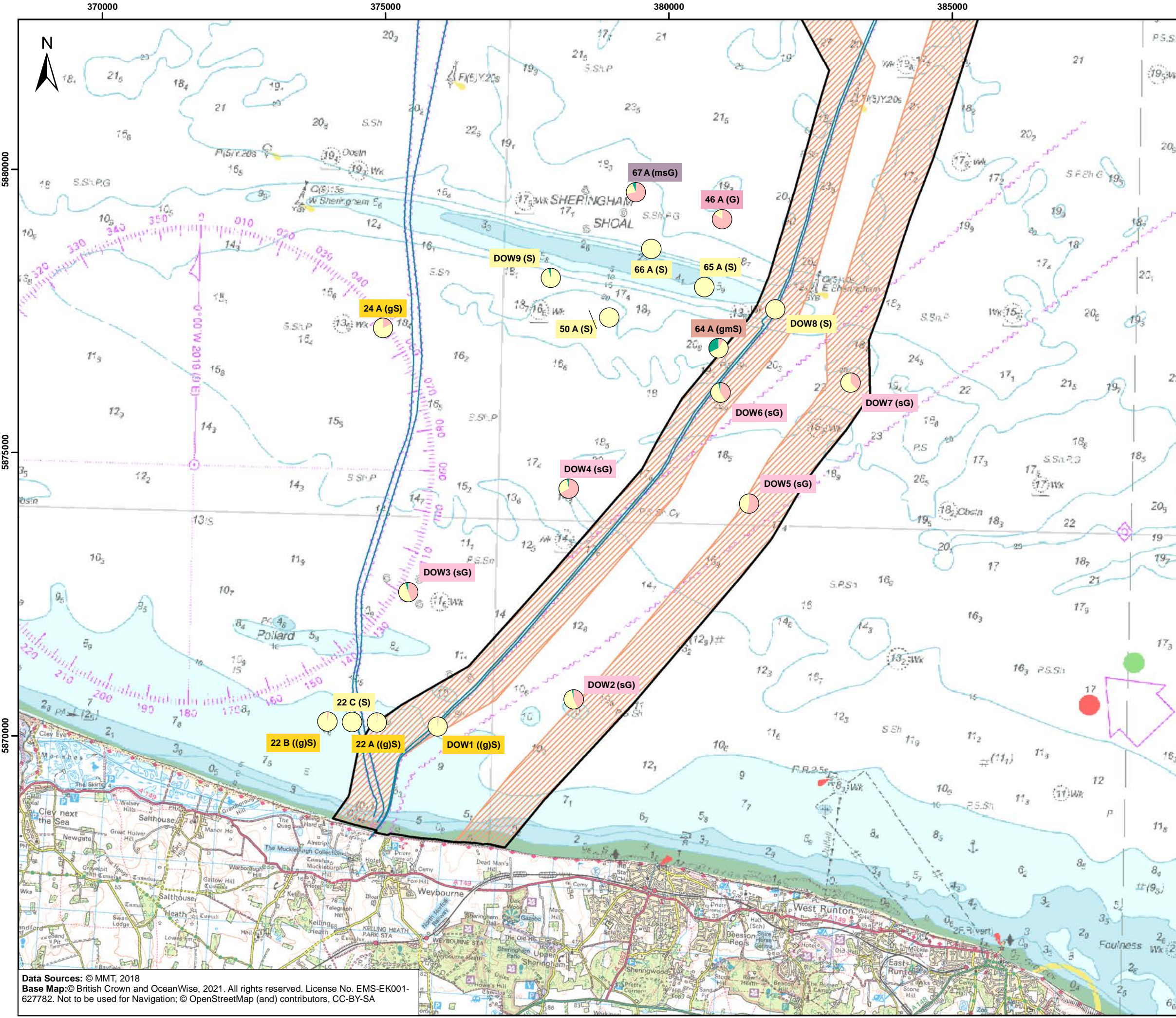


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# Sheringham Shoal and Dudgeon Extension Projects

Title:

Figure 7.5 Sediment Chemistry Sampling Locations

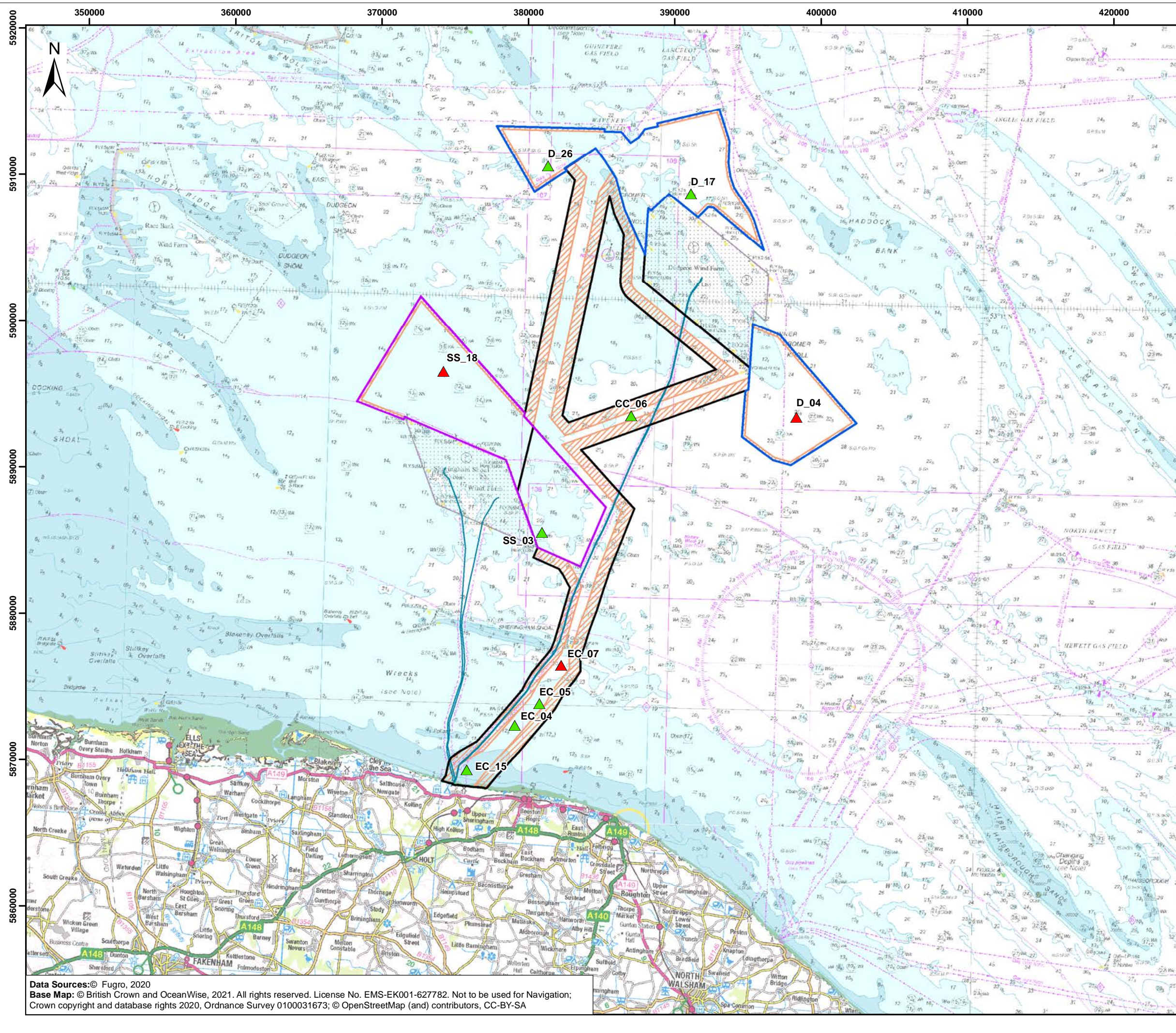
Document:

Environmental Statement (ES)  
Chapter 7 Marine Sediment and Water Quality

Application Doc. no.: 6.2.7

Legend:

- Dudgeon Offshore Wind Farm Extension Project Wind Farm Site
- Sheringham Shoal Offshore Wind Farm Extension Project Wind Farm Site
- Offshore Cable Corridors
- Existing Offshore Wind Farm Export Cable
- Offshore Temporary Work Area
- Existing Offshore Wind Farm
- ▲ Completed Chemistry Benthic Sampling Stations
- ▲ Failed Chemistry Benthic Sampling Stations



Coordinate Reference System: WGS 1984 UTM Zone 31N  
Transformation WGS84: OSGB\_1936\_To\_WGS\_1984\_7



Scale: 1:250,000      Scale at size: A3

Equinor Doc. no.: C282-RH-Z-GA-00050  
RHDHV Doc. no.: PB8164-RHD-ZZ-OF-DR-Z-0103

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