

# Dudgeon and Sheringham Shoal Offshore Wind Farm Extensions

Preliminary Environmental Information Report

Volume 3 Appendix 16.2 - Archaeological Assessment of Geophysical Data – Addendum

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### Dudgeon and Sheringham Shoal Offshore Wind Farm Extensions Preliminary Environmental Information Report

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|                             | •              |                             |



## Dudgeon and Sheringham Offshore Wind Farm Extensions

Archaeological Assessment of Geophysical Data – Addendum

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wessexarchaeology



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#### Summary

Wessex Archaeology was commissioned by Royal HaskoningDHV, on behalf of Equinor ASA, to produce an addendum report consisting of review of the existing geophysical anomalies of archaeological and palaeogeographic potential within additional offshore export cable corridor options. These features were originally identified during the 2009 Dudgeon Offshore Wind Farm: Archaeological Desk Based and Geophysical Assessment, the 2014 Dudgeon Offshore Wind Farm Geophysical Assessment of 2013 Data and the 2020 Dudgeon and Sheringham Offshore Wind Farm Extensions Archaeological assessment of geophysical data, of which this current report is an addendum.

A total of 17 features of palaeogeographic interest were identified within the Study Areas. Of these, nine were assigned a P1 archaeological rating (**79019**, **7025**, **7026**, **7032**, **79061**, **79063**, **79073**, **79074** and **79082**), which are features of probable archaeological interest, either because of their palaeogeography or likelihood for producing palaeoenvironmental material. A further eight features were assigned a P2 archaeological rating, which are features of possible archaeological interest.

Should further ground investigation work be undertaken within the Study Area, it is recommended that the archaeological contractor be consulted to advise on potential samples to be acquired for archaeological purposes. It is also recommended that any future geotechnical logs from within the Study Areas be made available for geoarchaeological assessment.

A total of 89 seabed anomalies of archaeological potential were identified within the Study Areas. Of these, two (**7035** and **72596**) were assigned an A1 archaeological discrimination, which are features of anthropogenic origin of archaeological interest. It is recommended that the archaeological exclusion zones are retained for both of these features.

The remaining 87 anomalies have been assigned an A2 archaeological discrimination rating, which are anomalies of uncertain origin of possible archaeological interest. No Archaeological Exclusion Zones are recommended for these features at this time. However, avoidance of these features by micro-siting is recommended if they are proposed to be directly impacted by development in the future.

It is recommended that if any objects of possible archaeological interest are recovered during any groundwork operations, that they should be reported using the established *Offshore Renewables Protocol for Archaeological Discoveries*. This will establish whether the recovered objects are of archaeological interest and recommend appropriate mitigation measures.



#### Acknowledgements

This assessment of geophysical data was commissioned by Royal HaskoningDHV, on behalf of Equinor ASA, and the assistance of Victoria Cooper of Royal HaskoningDHV is acknowledged in this respect.

The geophysical data used for this assessment were originally acquired by Gardline Geosurvey Limited in 2007-8 and 2019-20, Fugro EMU Limited in 2013.





### **Dudgeon and Sheringham Offshore Wind Farm Extensions**

#### Archaeological assessment of geophysical data- Addendum

#### 1 INTRODUCTION

#### 1.1 **Project background**

- 1.1.1 Wessex Archaeology was commissioned by Royal HaskoningDHV, on behalf of Equinor ASA, to produce an addendum report consisting of a review of the existing geophysical anomalies of archaeological potential within four additional offshore export cable corridor options. This is to facilitate the construction and operation of the Dudgeon Extension Project (DEP) in the event that the Sheringham Extension Project (SEP) is not developed.
- 1.1.2 The survey areas are located in the Southern North Sea, north of the north Norfolk coast. The DEP has been split into two separate areas; one is immediately to the north-west (DEP NW) and the other to the south-east (DEP SE) of the existing Dudgeon Offshore Wind Farm (OWF) (Figure 1). The SEP is immediately to the north and east of the existing Sheringham Shoal OWF (Figure 1).
- 1.1.3 The proposed additional offshore export cable corridor options being reviewed for this assessment comprise a corridor linking DEP NW and DEP SE, running along the southern extent of the current Dudgeon OWF ('DEP S to DEP N along Dudgeon'); a corridor running along the north and eastern edge of SEP ('Around SEP'); a corridor running south through the proposed SEP and along the north-eastern edge of the current Sheringham Shoal OWF ('Through SEP along Sheringham Shoal') and through SEP linking the proposed extension project interconnector corridor with the original proposed export cable route ('straight through SEP').
- 1.1.4 Wessex Archaeology has previously undertaken a series of assessments for both the Dudgeon and Sheringham Shoal OWF, DEP and SEP projects and their originally proposed export cable route developments. The assessments and related surveys are outlined in Tables 1 and 2.

| Document  | Date | Reference                   | Wessex Archaeology<br>report ref. |
|---|------|-----------------------------|-----------------------------------|
| Dudgeon Offshore Wind Farm: Archaeological<br>Desk Based and Geophysical Assessment                   | 2009 | Wessex Archaeology<br>2009a | 69680.08                          |
| Dudgeon Offshore Wind Farm Extension<br>Area: Archaeological Assessment of Marine<br>Geophysical Data | 2009 | Wessex Archaeology<br>2009b | 69680.04                          |
| Dudgeon Offshore Wind Farm: Stages 1 to 3<br>Geoarchaeological and Palaeoenvironmental<br>Assessment  | 2014 | Wessex Archaeology<br>2014a | 69681.03                          |
| Dudgeon Offshore Wind Farm Geophysical Assessment of 2013 Data  | 2014 | Wessex Archaeology<br>2014b | 69682.04                          |

 Table 1
 Summary of past Wessex Archaeology reports for the Dudgeon development

| Document   | Date | Reference                   | Wessex Archaeology report ref. |
|--|------|-----------------------------|--------------------------------|
| Dudgeon Offshore Wind Farm Archaeological<br>Monitoring and Mitigation: Written Scheme of<br>Investigation   | 2014 | Wessex Archaeology<br>2014c | 69683.04                       |
| Dudgeon Offshore Wind Farm Review of<br>Archaeological Material During Unexploded<br>Ordnance Survey (Turbine Locations and<br>Cable Route) Method Statement | 2014 | Wessex Archaeology<br>2014d | 69683.06                       |
| Dudgeon Offshore Wind Farm Archaeological<br>Assessment of UXO Survey Results  | 2015 | Wessex Archaeology<br>2015a | 69684.01                       |
| Dudgeon Offshore Wind Farm Archaeological<br>Assessment of UXO Survey Results April–<br>May 2015   | 2015 | Wessex Archaeology<br>2015b | 69684.02                       |
| Dudgeon Offshore Wind Farm Stage 4<br>Palaeoenvironmental Analysis, Borehole<br>BH06.  | 2016 | Wessex Archaeology<br>2016  | 69685.01                       |
| Dudgeon Offshore Wind Farm Post-<br>construction archaeological monitoring<br>assessment of 2018 geophysical data  | 2019 | Wessex Archaeology<br>2019a | 69686.01                       |

## Table 2 Summary of past Wessex Archaeology reports for the Sheringham Shoal development

| Document  | Date | Reference                   | Wessex Archaeology<br>report ref. |
|---|------|-----------------------------|-----------------------------------|
| Sheringham Shoal Offshore Windfarm<br>Archaeological Desk-Based Assessment.<br>Technical Report     | 2006 | Wessex Archaeology<br>2006a | 61031.02                          |
| Sheringham Shoal OWF Stage 2<br>Archaeological Recording and Sampling of<br>Vibrocores              | 2006 | Wessex Archaeology<br>2006b | 61032.02                          |
| Sheringham Shoal Offshore Wind Farm Desk<br>Based Assessment  | 2006 | Wessex Archaeology<br>2006c | 61033                             |
| Sheringham Shoal Offshore Wind Farm<br>Written Scheme of Investigation                              | 2009 | Wessex Archaeology<br>2009c | 61035.03                          |
| Sheringham Shoal Offshore Wind Farm<br>Archaeological Assessment of Post-<br>Construction Data      | 2014 | Wessex Archaeology<br>2014e | 101841.03                         |
| Sheringham Shoal Offshore Wind Farm<br>Archaeological Assessment of Post-<br>Construction Data 2017 | 2017 | Wessex Archaeology<br>2017  | 101841.01                         |

1.1.5 This report consists of a compilation of geophysical anomalies identified during previous phases of assessment. This includes the 2009 Dudgeon Offshore Wind Farm: Archaeological Desk Based and Geophysical Assessment (Wessex Archaeology 2009a); the 2014 Dudgeon Offshore Wind Farm Geophysical Assessment of 2013 Data (Wessex Archaeology 2014b); and the 2020 Dudgeon and Sheringham Offshore Wind Farm Extensions Archaeological assessment of geophysical data, of which this current report is an addendum (Wessex Archaeology 2020).



- 1.1.6 Geophysical data were acquired by Gardline Geosurvey in 2007-2008 (Wessex Archaeology 2009a) and 2019-2020 (Wessex Archaeology 2020), and by Fugro Emu Ltd in 2013 (Wessex Archaeology 2014b).
- 1.1.7 The proposed additional offshore export cable corridor options are covered by different geophysical datasets from phases of assessment. These are:
  - The 'DEP S to DEP N along Dudgeon' corridor was covered largely by the 2007-2008 and 2013 geophysical datasets, and was previously interpreted as part of Wessex Archaeology 2009a and 2014b. A small section to the west was covered and interpreted as part of Wessex Archaeology 2020;
  - The 'Around SEP' corridor was covered by the 2013 geophysical dataset and was previously assessed as part of Wessex Archaeology 2014b; and
  - The 'Through SEP along Sheringham Shoal' and 'straight through SEP' corridors were covered by the most recent 2019-2020 dataset (Wessex Archaeology 2020).
- 1.1.8 The Study Area is defined as the extents of the proposed additional offshore export cable corridor options (Figure 1) as provided by the client on the 19 November 2020. Any geophysical anomalies identified outside of the defined Study Area are considered beyond the scope of this report and are not included in the results or gazetteer of anomalies.

#### 1.2 Aims and objectives

- 1.2.1 The aim of this assessment is to identify any anomalies of archaeological potential within the Study Area, in order to further inform the planning process ahead of the proposed development scheme. This is to be undertaken through the following objectives:
  - Identify any buried palaeolandscape features of possible archaeological potential;
  - Confirm the presence of known or previously located marine sites of archaeological potential and to comment on their apparent character;
  - Identify, locate and characterise hitherto unrecorded marine sites of archaeological potential;
  - Compare the results with previous archaeological investigations undertaken within the Study Area and with known records (e.g. from the United Kingdom Hydrographic Office (UKHO)); and
  - Provide recommendations for archaeological mitigation.

#### 1.3 Co-ordinate system

1.3.1 The survey data was acquired in WGS84 UTM31N projected coordinates, and the results are presented in the same coordinate system.

#### 2 METHODOLOGY

#### 2.1 Data sources

- 2.1.1 A number of data sources were consulted during this assessment, including:
  - Recorded wreck and obstruction data acquired via the UKHO;



- Relevant geological mapping from the area (British Geological Survey (BGS) 1991), admiralty charts received from MarineFind;
- Previous archaeological investigations from the Study Area (see Table 1 and 2 for full list); and
- Client supplied survey reports (Gardline 2020a and 2020b).

#### 2.2 Geophysical data – technical specifications

2.2.1 Geophysical data were acquired by Gardline Geosurvey in 2007-8 (Wessex Archaeology 2009a) and 2019-20 (Wessex Archaeology 2020), and by Fugro Emu Ltd in 2013 (Wessex Archaeology 2014b). For further information on the equipment used, please refer to Wessex Archaeology 2009a; 2014b and 2020

#### 2.3 Geophysical data – processing

- 2.3.1 No new geophysical data were processed and interpreted as part of this assessment. Instead, gazetteers of anomalies produced during previous phases of assessment were used. These were loaded into Arc GIS to identify any anomalies of archaeological potential situated within the Study Area. Any such anomalies were then assessed using the relevant project archive and discriminated as per Section 2.5.
- 2.3.2 As the results used for this assessment were produced using data originally processed as part of earlier reports. As such, there may be some small differences in the software used and specific methodologies in which the data were processed. For more information on the processing methods and the software previously used to interpret each dataset, please refer to the original reports (Table 1, Table 2).
- 2.3.3 For the purposes of this report, the identified magnetic anomalies have been classified as small (5 nT to 49 nT), medium (50 nT to 99 nT), large (100 nT to 499 nT) and very large (over 500 nT) magnetic anomalies.

#### 2.4 Geophysical data – data quality

2.4.1 During the original processing, the geophysical data sets were individually assessed for quality and their suitability for archaeological purposes, and rated using the following criteria (Table 3).

| Data quality | Description  |
|--------------|--|
| Good         | Data which are clear and unaffected or only slightly affected by weather conditions, sea state, background noise or data artefacts. Seabed datasets are suitable for the interpretation of upstanding and partially buried wrecks, debris fields, and small individual anomalies. The structure of wrecks is clear, allowing assessments on wreck condition to be made. Subtle reflectors are clear within SBP data. These data provide the highest probability that anomalies of archaeological potential will be identified. |
| Average      | Data which are moderately affected by weather conditions, sea state and noise. Seabed datasets are suitable for the identification of upstanding and partially buried wrecks, the larger elements of debris fields and dispersed sites, and larger individual anomalies. Dispersed and/or partially buried wrecks may be difficult to identify. Interpretation of continuous reflectors in SBP data is problematic. These data are not considered to be detrimentally affected to a significant degree.                        |

 Table 3
 Criteria for assigning data quality rating

| Data quality  | Description  |
|---------------|--|
| Below Average | Data which are affected by weather conditions, sea state and noise to a significant degree.<br>Seabed datasets are suitable for the identification of relatively intact, upstanding wrecks and<br>large individual anomalies. Dispersed and/or partially buried wrecks, or small isolated<br>anomalies may not be clearly resolved. Small palaeogeographic features, or internal structure<br>may not be resolved in SBP data. |
| Variable      | This category contains datasets where the individual lines range in quality. Confidence of interpretation is subsequently likely to vary within the Study Area.  |

- 2.4.2 For information on the data quality for the each of the different datasets used for this assessment, please refer to the original reports (Wessex Archaeology 2009a, 2014b and 2020).
- 2.4.3 It should be noted that not all of the additional corridors have full geophysical data coverage. The section of corridor running along the north-eastern edge of the current Sheringham Shoal OWF (part of the 'Through SEP along Sheringham Shoal' corridor) is covered by the 2015 post-construction SSS and MBES data only and, as such, there is no Mag. or SBP coverage for this section.
- 2.4.4 The section of the 'Around SEP' corridor, running along the eastern edge of the SEP, was previously assessed as part of the 2014 geophysical Assessment (Wessex Archaeology 2014b) and has no SBP data coverage. The northern section of the 'Around SEP' optional corridor has not been covered by any previous geophysical assessment, with the exception of a small section of overlap with the 2020 geophysical data (Figure 3.03).
- 2.4.5 It cannot be guaranteed that there are no anomalies of archaeological or geoarchaeological potential within these areas with reduced or no geophysical data coverage. These areas have been mapped and can be seen in Figure 2.01-2.03 and 3.01-3.04.

#### 2.5 Geophysical data – anomaly grouping and discrimination

- 2.5.1 During the original data processing and interpretation, all data types were interpreted independently of each other (Wessex Archaeology 2009a, 2014b and 2020). This process inevitably leads to the possibility of any one object being the cause of numerous anomalies in different datasets.
- 2.5.2 To address this fact the anomalies were grouped together; allowing one ID number to be assigned to a single object for which there may be, for example, a UKHO record and multiple SSS anomalies.
- 2.5.3 A small number of anomalies identified during the 2014 data assessment had not been grouped in with their original 2009 assessment ID numbers. Where this has occurred, both the most recent 2014 ID numbers have been retained, with reference to their original ID number in the gazetteer description.
- 2.5.4 Once all the geophysical anomalies and desk-based information have been grouped, a discrimination flag is added to the record in order to discriminate against those which are not thought to be of an archaeological concern. For anomalies located on the seabed, these flags are ascribed as follows (Table 4).

| Table 4 | Criteria discriminating relevance of identified features to proposed scheme |
|---------|---|
|---------|---|

| Overview classification | Discrimination | Criteria  | Data type |  |
|-------------------------|----------------|---|-----------|--|
| Archaeological          | P1             | Feature of probable archaeological interest, either because of its palaeogeography or | SBP, MBES |  |

|                |    | likelihood for producing palaeoenvironmental material   |                    |
|----------------|----|---|--------------------|
| Archaeological | P2 | Feature of possible archaeological interest   | SBP, MBES          |
|                |    |   |                    |
| Archaeological | A1 | Anthropogenic origin of archaeological interest   | MBES, SSS,<br>Mag. |
| Archaeological | A2 | Uncertain origin of possible archaeological interest  | MBES, SSS,<br>Mag. |
| Archaeological | A3 | Historic record of possible archaeological interest with no corresponding geophysical anomaly | MBES, SSS,<br>Mag. |

- 2.5.5 The grouping and discrimination of information at this stage is based on all available information and is not definitive. It allows for all features of potential archaeological interest to be highlighted, while retaining all the information produced during the course of the geophysical interpretation and desk-based assessment for further evaluation should more information become available.
- 2.5.6 Any anomalies located outside of the defined Study Areas, either previously recorded in known databases (e.g. UKHO) or identified during this geophysical assessment, are deemed beyond the scope of the current assessment and are subsequently not included in this report.

#### 3 PALAEOGEOGRAPHIC ASSESSMENT

#### 3.1 Geological baseline and archaeological potential

- 3.1.1 The Study Area is situated within the southern North Sea Basin. The environment within the Study Area is currently fully marine, and a shallow marine basin has existed in the approximate location of the North Sea since the Early Tertiary (although the exact location and extent has altered over time), which is reflected in the geology of the region (Cameron *et al.* 1992).
- 3.1.2 The background geology of the Study Area is dominated by the Chalk Group, an extensive deposit of chalk present throughout much of the North Sea and southern England, which was laid down in shallow marine conditions during the Upper Cretaceous period. The upper surface of the Chalk Group is erosional, and the unit is unconformably overlain by a series of Pleistocene deposits and, in some places, Early Holocene sediments (Cameron *et al.* 1992). These were deposited in a range of environments, from terrestrial to marine, and it is the terrestrial sediments, deposited during periods of low relative sea level, that are of the highest archaeological potential. For further information on the geological background of the area, as well as the archaeological potential of the different geological units expected to be present, please refer to the previous report produced as part of the Dudgeon and Sheringham Shoal Extension Projects (Wessex Archaeology 2020).

#### 3.2 Palaeogeographic assessment results

- 3.2.1 All palaeogeographic features presented in this report were originally identified during previous assessments (Wessex Archaeology 2009a and 2020).
- 3.2.2 The identified geology within the Study Area is based on the Dudgeon and Sheringham Offshore Wind Farm Extensions assessment (Wessex Archaeology 2020), and has been divided into eight units, as described below:

| Unit | Unit Name  | Geophysical<br>Characteristics <sup>(1)</sup>   | Sediment Type <sup>(2)</sup>  | Archaeological<br>Potential  |
|------|--|---|---|--|
| 8    | Holocene Seabed<br>Sediments (post-<br>transgression)<br>(Marine Isotope<br>Stage (MIS) 1) | Generally observed as a<br>veneer across the site, but<br>occasionally thickening<br>into large sand wave and<br>bank features. Boundary<br>between surficial<br>sediments and underlying<br>units not always<br>discernible, but an<br>occasionally, distinct<br>horizontal reflector may<br>mark the base of sand in<br>some locations. | Gravelly sand with<br>shell fragments, sand<br>waves and ripples<br>indicate sediment is<br>mobile.                     | Considered of low<br>potential in itself, but<br>possibly contains re-<br>worked artefacts and<br>can cover wreck sites<br>and other cultural<br>heritage.   |
| 7    | Holocene Sediments<br>(Pre-transgression)<br>(MIS 2 to 1)                                  | Small shallow infilled<br>channels with either<br>seismically transparent fill,<br>or fill characterised by sub-<br>parallel internal reflectors.<br>May also comprise a<br>basal, high amplitude<br>reflector, possibly<br>representing a peat layer.  | Fluvial, estuarine and<br>terrestrial (including<br>peat) deposits.   | Potential to contain <i>in situ</i> and derived archaeological material, and palaeoenvironmental material.   |
| 6b   | Botney Cut<br>Devensian to<br>possibly Early<br>Holocene (MIS 2 to<br>1)                   | Channel features with<br>distinct basal reflectors<br>and fill characterised by<br>sub-parallel internal<br>reflectors. Acoustic<br>blanking occasionally seen<br>at base and within.   | Clays and sands.<br>Alluvial (estuarine)<br>and terrestrial (peat)<br>sediments probably<br>relating to the<br>Holocene | Upper deposit of<br>glaciolacustrine mud<br>infilling sub-glacial<br>valleys. Upper deposits<br>could possibly contain<br>derived or <i>in-situ</i><br>artefacts and preserved<br>palaeoenvironmental<br>material. |
| 6a   | Botney Cut<br>Devensian to<br>possibly Early<br>Holocene age (MIS<br>2)                    | Acoustically chaotic unit<br>with faint basal reflector,<br>possibly infilling broad,<br>faint channel features.<br>Some sub-horizontal<br>internal reflectors.   | Glacial tills   | Sequence of glacial till.<br>Likely to have removed<br>earlier archaeological<br>material, the lower till is<br>unlikely to contain<br>artefacts.  |
| 5    | Bolders Bank (Late<br>Devensian) (MIS 2)   | Acoustically chaotic<br>blanket deposit often with<br>internal reflectors and<br>some occasional internal<br>channelling  | Subglacial terrestrial<br>till  | Glacial till deposits.<br>Likely to have removed<br>earlier archaeological<br>material and unlikely to<br>contain artefacts.   |
| 4    | Egmond Ground<br>(Hoxnian/Wolstonian)<br>(MIS 8)   | Fill characterised by<br>numerous faint reflectors<br>and a distinct basal<br>reflector   | Sands and gravels of probably marine origin.  | Shallow marine<br>sediments. Earlier <i>in-</i><br><i>situ</i> deposits may be<br>buried by the formation.   |

#### Table 5 Shallow stratigraphy of the Study Area

| warte Bank  |  |  |   |
|---|--|--|---|
| ormation<br>Anglian/Early<br>Ioxnian) (MIS 12/11) | Acoustically chaotic unit<br>with faint basal reflector,<br>possibly infilling broad,<br>faint channel features.<br>Some sub-horizontal<br>internal reflectors.  | Sub-glacial channel<br>fill, comprising a<br>basal reworked till<br>with upper<br>glaciolacustrine /<br>glaciomarine<br>sediment.  | Sequence of glacial till,<br>glaciolacustrine muds<br>and glaciomarine sands<br>infilling large sub-glacial<br>valleys. Likely to have<br>removed earlier<br>archaeological material<br>and the fill is unlikely to<br>contain artefacts.   |
| re-Devensian<br>/eybourne Channel                 | Broad, distinct channel<br>feature with an undulating<br>basal reflector. Fill<br>characterised by an upper<br>unit characterised by<br>numerous, faint sub-<br>horizontal reflectors,<br>overlaying a more<br>acoustically chaotic unit | Alluvial sequence<br>found to comprise<br>sand, clay and<br>organic silt.  | Exact age, and therefore<br>archaeological potential,<br>is uncertain however<br>thought to have the<br>potential to contain <i>in</i><br><i>situ</i> and derived<br>archaeological material,<br>and<br>palaeoenvironmental<br>material.  |
| lpper cretaceous<br>halk                          | Fairly acoustically quiet<br>with some, faint dipping<br>reflectors  | White and greyish<br>white chalk with some<br>nodular flint and<br>some softer "putty"<br>chalk, resulting in<br>periglacial activity.   | Pre-Earliest occupation of the UK   |
|   | e-Devensian<br>eybourne Channel<br>per cretaceous<br>alk   | Internal reflectors.e-Devensian<br>eybourne Channelgeber<br>eybourne Channelgeber<br>eybourne Channelfailt characterised by an upper<br>unit characterised by<br>numerous, faint sub-<br>horizontal reflectors,<br>overlaying a more<br>acoustically chaotic unitper cretaceous<br>alkgeophysical data | Internal reflectors.Sediment.Sediment.Sediment.Sediment.Broad, distinct channel<br>feature with an undulating<br>basal reflector. Fill<br>characterised by an upper<br>unit characterised by<br>numerous, faint sub-<br>horizontal reflectors,<br>overlaying a more<br>acoustically chaotic unitAlluvial sequence<br>found to comprise<br>sand, clay and<br>organic silt.Sediment.Fairly acoustically quiet<br>with some, faint dipping<br>reflectorsWhite and greyish<br>white chalk with some<br>nodular flint and<br>some softer "putty"<br>chalk, resulting in<br>periglacial activity. |

<sup>(2)</sup> Based on vibrocore and borehole data (Wessex Archaeology 2009c; 2014a; 2016) and Cameron *et al.,* (1992)

- 3.2.3 The above stratigraphy is a combination of the identified shallow geological units from across the DEP and SEP areas and their associated ECR. The entire stratigraphy was not identified in any one single place, and the exact number of units present will differ depending on location.
- 3.2.4 Within the Study Area, Units 3, 4, 5, 6, 7 and 8 have been interpreted as being present.
- 3.2.5 The oldest geological unit interpreted within the Study Area is Unit 3. This is expected to be present either below a veneer of Unit 8, or below Unit 5, in the south-eastern corner of the SEP area. However, due to its acoustic similarities with Unit 5, it has not been definitively identified within the geophysical data.
- 3.2.6 A blanket deposit of Unit 5 is expected throughout the entire Study Area either below Unit 8 or otherwise directly below seabed.
- 3.2.7 Seven channel features are identified within the Study Area (**79019**, **7026**, **79061**, **79063**, **79073-4** and **79082**) and are seen to be cutting into either Unit 3 or Unit 5. These are generally characterised by a distinct basal reflector and fill consisting of numerous horizontal and sub-horizontal reflectors, indicating well-layered sediments. These channel features have been interpreted as Botney Cut features (Unit 6b), which have the potential

to contain derived artefacts and preserved palaeoenvironmental material, although there is the possibility of them being later Holocene features (Unit 7).

- 3.2.8 An interpreted Botney Cut feature (**7026**) was identified during the 2009 assessment, reported as cutting into the underlying Bolders Bank Formation to a depth of approximately 4 m, with a fill more transparent than the surrounding sediment. This feature is located in the DEP S to DEP N along Dudgeon corridor, adjacent to the Dudgeon OWF, and was not covered by the SBP data acquired for the 2020 phase of assessment. The previous interpretation has been retained, although it has been reclassified as a channel based on its size and description.
- 3.2.9 Feature **7026** was sampled (Borehole BH06) as part of geotechnical investigations undertaken in 2013/4 in the main Dudgeon OWF site (Wessex Archaeology 2014a; 2016). During the assessment of BH06, units of highly laminated organic gyttja and peat with intervening sandy peat were identified, which are thought to represent the gradual infilling of a freshwater lake followed by the development of a small channel infilled with shelly sandy gravel and sealed by a thin layer of gyttja and peat. Radiocarbon dating showed that these sediments accumulated over a period between *ca.* 12 700 and 9260 cal BP, during a period of significant climate change with the abrupt cooling of the Younger Dryas (from 12,900 to 12,700 cal a BP) followed by rapid warming during the onset of the Holocene (from 11, 700 cal a BP) (Brown *et al.* 2018).
- 3.2.10 It is possible that the other Botney Cut channels identified across the Study Areas are of a similar age to those sediments and, as such, the sediments associated with these features are deemed to be of high archaeological potential. This is due to the fact they could contain *in situ* or derived anthropogenic artefacts and preserved palaeoenvironmental material.
- 3.2.11 Two anomalies (**7025** and **7032**) were identified during the 2009 assessment (Wessex Archaeology 2009a) as a high amplitude reflectors and interpreted as being possible peat. If peat, these features are likely to represent former terrestrial landscapes and, as such, the sediments associated with these features are deemed to be of high archaeological potential.
- 3.2.12 In the northern section of the DEP S to DEP N along Dudgeon corridor, and the southeastern corner of the Through SEP along Sheringham Shoal corridor, a distinct, horizontal reflector was identified below Unit 8 in the parametric sonar data during the 2020 assessment. It is possible that this feature represents an erosion surface, possibly a former terrestrial landscape which may contain peat, similar to **7025** and **7032**. However, it is also possible that this feature represents the base of the mobile sands. Due to the uncertainty in its origins, the feature has been mapped (Figure 2.01-2.03) however it has not been given its own anomaly number.
- 3.2.13 One complex cut and fill (**79021**) and seven simple cut and fills (**79045-7**, **79062**, **76064** and **79080-1**) were identified within the Study Area. These features are thought to be of a similar age as the channels described above. However, as they could not be traced any distance as coherent palaeochannels, they are interpreted as cut and fill features. It is possible that they are the remnants of eroded palaeochannel systems but, as their nature is less certain, they are considered of lower archaeological potential.
- 3.2.14 It should be noted that the features identified within the Study Area generally represent small sections of larger features, which are seen to extend across greater areas of DEP, SEP and the existing Dudgeon and Sheringham Shoal OWFs. To see these features in context of their larger features, please refer to Wessex Archaeology 2009a and 2020.



- 3.2.15 Due to the penetration of the Parametric Sonar data, the shallow nature of some of the features, and the acoustic similarities between Unit 6b and the underlying Units 6a and 5, it has not always been possible to accurately map the full extents of some of the features, particularly the Botney Cut features, within the Study Area.
- 3.2.16 Unit 8 is expected to be present across the Study Areas either as a thin veneer or occasionally thickening out into sand waves. Due to its age and depositional environment, Unit 8 is not considered of archaeological potential in itself. However, in areas of mobile seabed sediment, Unit 8 has the potential to periodically bury seabed archaeological features such as shipwreck sites.
- 3.2.17 No SBP data have been acquired in the 'Around SEP' corridor and the south-eastern leg of the 'Through SEP along Sheringham Shoal' corridor. As such, no comment can be made on the presence of features of paleogeographic interest in these areas.

#### 4 SEABED FEATURES ASSESSMENT

#### 4.1 Introduction

4.1.1 The geophysical anomalies reported on for this assessment were all originally identified during previous assessments (Wessex Archaeology 2009a, 2014b and 2020). Any sites located outside of the defined Study Area, either previously recorded in known databases (e.g. UKHO) or identified during this or previous geophysical assessments, are deemed beyond the scope of the current project and are subsequently not included in this report.

#### 4.2 Seabed features assessment results

- 4.2.1 The results of this assessment are collated in gazetteer format detailed in Appendix II and illustrated in Figures 3.01 3.04.
- 4.2.2 A total of 89 features have been identified as of possible archaeological potential within the Study Area and are discriminated as shown in Table 6.

| Archaeological discrimination | Quantity | Interpretation                                       |  |  |  |
|-------------------------------|----------|--|--|--|--|
| A1                            | 2        | Anthropogenic origin of archaeological interest      |  |  |  |
| A2                            | 87       | Uncertain origin of possible archaeological interest |  |  |  |
| Total                         | 89       |  |  |  |  |

4.2.3 Furthermore, these anomalies can be classified by probable type, which can further aid in assigning archaeological potential and importance (Table 7).

| Anomaly classification | Definition   | Number of anomalies |
|------------------------|--|---------------------|
| Wreck                  | Areas of coherent structure including wrecks of ships,<br>submarines and some aircraft (where coherent structure<br>survives)  | 2                   |
| Debris field           | A discrete area containing numerous individual debris<br>items that are potentially anthropogenic, and can include<br>dispersed wreck sites for which no coherent structure<br>remains | 3                   |

 Table 7
 Types of anomaly identified

| Anomaly classification | Definition  | Number of anomalies |
|------------------------|---|---------------------|
| Debris                 | Distinct objects on the seabed, generally exhibiting<br>height or with evidence of structure, that are potentially<br>anthropogenic in origin                       | 17                  |
| Depression             | An area of disturbed seabed with depth. Potentially indicates scour around a buried feature or where a feature has been cleared.                                    | 1                   |
| Seabed disturbance     | An area of disturbance without individual, distinct objects.<br>Potentially indicates wreck debris or other anthropogenic<br>features buried just below the seabed. | 1                   |
| Rope/chain             | Curvilinear dark reflectors, often with a small amount of height, indicating rope or chain (if ferrous)   | 1                   |
| Dark reflector         | Individual objects or areas of high reflectivity, displaying<br>some anthropogenic characteristics. Precise nature is<br>uncertain                                  | 24                  |
| Magnetic               | No associated seabed surface expression, and have the potential to represent possible buried ferrous debris or buried wreck sites                                   | 40                  |
| Total                  |   | 89                  |

- 4.2.4 Two anomalies within the Study Area have been discriminated as A1 (7035 and 72596).
- 4.2.5 Wreck **7035** was identified during the 2009 assessment (Wessex Archaeology 2009b) with hull and superstructure clearly visible in the SSS data. The dimensions were recorded as 33.3 x 11.6 x 1.9 m with a large magnetic amplitude of 236 nT This corresponds with the UKHO position for the wreck thought to be the *Aquarius*; a British steam trawler of 187 gross tons that was mined when proceeding from Grimsby to fishing grounds (UKHO 9509). The wreck was not covered by the 2020 geophysical dataset.
- 4.2.6 Feature **72596** was identified during the 2020 geophysical assessment (Wessex Archaeology 2020). In the SSS data, the feature was seen as a distinct oval outline measuring 36.4 x 15.6 x 0.5 m, which appears pointed at one end and slightly flattened at the other, interpreted as being a possible wreck. The feature is orientated north-west to south-east and appears hull-like in shape with a more distinct southern edge, possibly indicating the feature is either more degraded along its northern edge, or possibly that it is listing toward the north and slightly more buried. There is very little internal detail within the interpreted hull. In the MBES data, the possible wreck was identified as a distinct hull-shaped outline with no clear internal structure visible. The north-east side of the interpreted wreck appears to have some sediment accumulation. The feature had no corresponding magnetic anomaly. This may be due to the fact the possible wreck is not directly covered by a line of Mag. data; however, if the feature were ferrous in construction, it would be likely be seen on the closest Mag. line which suggests that the feature may largely comprise non-ferrous materials
- 4.2.7 Feature **72596** has no associated UKHO record and therefore may be a previously unrecorded wreck.
- 4.2.8 The remaining 87 anomalies within the study area have all been discriminated as A2.
- 4.2.9 Of these A2 anomalies, three have been classified as debris fields (72640, 72593 and 72546). All of these were identified during the most recent geophysical assessment (Wessex Archaeology 2020). The largest is 72593, which was identified in the SSS data as a large spread of dark reflectors with shadows measuring 27.1 x 22.8 x 0.5 m.



- 4.2.10 Interpreted debris fields **72593** and **72546** had no associated Mag. anomalies, indicating they comprise non-ferrous material. Feature **72640** was not directly covered by a line of Mag. data and therefore it is not possible to confirm whether the feature comprises ferrous material
- 4.2.11 Seventeen anomalies were classified as debris (for full list, see Appendix II). Of these, four had associated magnetic anomalies indicating the presence of ferrous material (70849, 70879, 70861 and 70807). All of these interpreted debris items were identified during either the 2009 or 2014 geophysical assessments (Wessex Archaeology 2009a; 2014b).
- 4.2.12 Twenty-four anomalies were classified as dark reflectors (for full list, see Appendix II). These range in size from 0.6 m in length (**70008** and **7059**) to 8.3 m in length (**70258**). All of these features have the potential of being items of debris; however, it is also possible that they are natural features.
- 4.2.13 One feature (**70818**) was interpreted as being a length of rope or chain. This was identified during the 2014 geophysical assessment as a diffuse, long and thin linear dark reflector measuring 19.4 x 1.4 with a faint shadow. The feature appears to be extending from a dark, thin, 'hook' shaped dark reflector with a bright shadow. The feature corresponds with a large magnetic anomaly measuring 249 nT and has been interpreted as a length of rope or chain with an associated ferrous item of debris, possibly an anchor.
- 4.2.14 One feature (**7056**) was interpreted as being a seabed disturbance. This was identified during the 2009 geophysical assessment as a disturbance measuring 3.5 x 0.3 x 0.2 m. It is possible that this feature contains debris items; however, it may be a natural feature.
- 4.2.15 One feature (**70324**) was interpreted as being a depression. This was identified during the 2014 geophysical assessment as a circular dark reflector with an associated bright reflector, measuring 5.0 x 2.1 m. Debris item **70323** is a distinct curvilinear piece of debris with the dimensions 53.0 x 0.3 0.1 m, which passes through and is possibly associated with a depression, **70324**, measuring 6.0 x 6.0 m with a depth of 0.1 m. The piece of interpreted debris extends 41 m to the southeast and 17m to the north of the depression.
- 4.2.16 The remaining 40 anomalies have all been classified as magnetic anomalies, and do not have any significant associated SSS or MBES contacts. These range in amplitude from 17 nT (7236) to 495 nT (70645), and are interpreted as items of possible ferrous debris that is either buried or without surface expression.
- 4.2.1 Within the DEP S to DEP N along Dudgeon corridor, items of wooden debris (located 387975 mE, 5905168 mN) are reported as being identified by ROV during the 2015 Archaeological Assessment of UXO Survey Results (Wessex Archaeology 2015a). The feature (MMT ID F14335) is reported as being possible wooden debris in three pieces, the longest of which measures approximately 80 cm in length, and about 10 cm in width. The smaller two pieces measure roughly 60 cm and 30 cm in length. During the 2015 assessment, the material was interpreted as possibly being indicative of a lightly built wooden shipwreck of unknown date; however, it could be modern debris or natural material. It is possible that additional debris lies buried in the area. No excavation was undertaken at this site. As the site has not previously been identified in the geophysical data, and it lies outside of the geophysical data coverage acquired for this assessment, it has not been included in the gazetteer at this time. However, the possibility of there being archaeological material at this location should be noted (Figure 3.01).



- 4.2.2 It should be noted that the for the south-eastern leg of the 'Through SEP along Sheringham Shoal' corridor, the 2015 SSS and MBES data, which were acquired for the Sheringham Shoal post-construction survey (Wessex Archaeology 2017) were re-assessed as part of the 2020 geophysical assessment (Wessex Archaeology 2020. This dataset did not include any SBP or Mag. data and, as such, it is possible that not all features, particularly ferrous features, of archaeological potential have been identified within these areas.
- 4.2.3 The northern section of the 'Around SEP' corridor has not been covered by any geophysical assessment and, as such, no comment can be made on the presence of features of archaeological interest in this area.

#### 5 CONCLUSIONS AND RECOMMENDATIONS

#### Palaeogeographic features

- 5.1.1 The assessment of the previously identified palaeolandscape features within the Study Area resulted in the identification of a total of 17 features of palaeogeographic interest. These are summarised as follows:
  - a total of seven channels and two high amplitude reflectors were assigned a P1 archaeological rating; and
  - a total of eight cut and fills were assigned a P2 archaeological rating.
- 5.1.2 As terrestrial features interpreted as being deposited during periods of known human occupation of the UK, those features given a P1 archaeological rating are considered of high archaeological potential. Those features with a P2 discrimination are considered of medium archaeological potential, partly due to the uncertainty of features formation and fill. Further geoarchaeological investigation (e.g. core log and/or sample assessment) would aid in refining the interpretation of these features, particularly within areas where the distinct horizontal reflector was observed, and therefore help determine the archaeological potential of the area.
- 5.1.3 Should further ground investigation work be undertaken within the Study Area, it is recommended that the archaeological contractor be consulted to advise on potential samples to be acquired for archaeological purposes. It is also recommended that any future geotechnical logs from within the Study Area be made available for geoarchaeological assessment.
- 5.1.4 Furthermore, it is recommended that any samples acquired containing material of archaeological potential, particularly those within the interpreted Pleistocene/early Holocene features, be made available for geoarchaeological assessment.

#### Seabed features

- 5.1.5 The assessment of the previously identified geophysical anomalies within the Study Area resulted in a total of 89 anomalies identified as of possible archaeological interest. These are summarised as follows:
  - a total of two were assigned an A1 archaeological rating; and
  - a total of 87 were assigned an A2 archaeological rating.

5.1.6 As features of high archaeological potential, it is recommended that the Archaeological Exclusion Zones (AEZs) recommended during the 2020 assessment (Wessex Archaeology 2020) are retained for the two A1 anomalies. These are summarised in the table below:

| ID     | Classification | Original UT |         | ) (WGS84<br>131N) | Status   | Exclusion Zone                                   | Area                               |  |
|--------|----------------|-------------|---------|-------------------|----------|--|------------------------------------|--|
| Number |                | Assessment  | Easting | Northing          |          |  |                                    |  |
| 7035   | Wreck          | 69680       | 387699  | 5905833           | Retained | 70 m buffer<br>around previous<br>feature extent | DEP S to DEP<br>N along<br>Dudgeon |  |
| 72596  | Wreck          | 233450      | 382091  | 5886033           | Retained | 50 m buffer<br>around current<br>feature extent  | Straight<br>through SEP            |  |

 Table 8
 Recommended AEZs within the Study Area

- 5.1.7 For features assigned A2 archaeological discrimination rating, no AEZs are recommended at this time. However, avoidance of these features by micro-siting is recommended if they are proposed to be directly impacted by development in the future. If micro-siting is not possible, then further assessment to ascertain the nature of the features may be required.
- 5.1.8 It is recommended that if any objects of possible archaeological interest are recovered during any groundwork operations, that they should be reported using the established Offshore Renewables Protocol for Archaeological Discoveries (ORPAD) (The Crown Estate 2014). This will establish whether the recovered objects are of archaeological interest and recommend appropriate mitigation measures.





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#### APPENDICES

#### Appendix I Palaeogeographic features of archaeological potential

| ID    | Classification              | Archaeological (mBs |      | epth Range<br>(mBSB) Description |   | Area   | Data Source                                |
|-------|-----------------------------|---------------------|------|----------------------------------|---|--|--|
|       |                             | uschimation         | From | То                               |   |  |  |
| 79019 | Channel                     | P1                  | 0.1  | 7.7                              | A distinct channel feature with an uneven base identified during the most<br>recent phase of assessment. Feature is situated below a unit of possible<br>modern marine sediments and cutting into the interpreted Swarte Bank<br>formation. Feature is orientated north-east to south-west. Feature fill appears<br>to be multi-phase and is characterised by a lower unit characterised by<br>numerous sub-horizontal reflectors, overlain by a possible second acoustically<br>quiet fill in places, however it is possible that this is overlying modern marine<br>sediments. Possible Botney Cut channel. | Through SEP<br>along<br>Sheringham<br>Shoal and<br>Straight<br>through SEP | 233450 (Pinger<br>and parametric<br>sonar) |
| 79021 | Complex cut and fill        | P2                  | 0.3  | 3.1                              | A complex cut and fill with a distinct basal reflector identified during the most recent phase of assessment below a veneer of modern marine sediments, cut into the interpreted Bolders Bank formation. Feature fill is characterised by numerous sub-horizontal reflectors, indicated well-layered sediments, with a possible second more acoustically chaotic fill above. Feature identified at the outer limits of the data extents and therefore may form part of a larger feature.  | DEP S to DEP<br>N along<br>Dudgeon   | 233450<br>(Parametric<br>Sonar data)       |
| 79045 | Simple cut and fill         | P2                  | 0.3  | 2.6                              | A shallow simple cut and fill identified during the most recent phase of<br>assessment beneath a unit of mobile marine sediments, cut into the interpreted<br>Bolders Bank Formation. The feature has a distinct basal reflector and<br>relatively chaotic fill. Possible small cut and fill, however, also has the potential<br>of being an internal Bolders Bank feature.   | DEP S to DEP<br>N along<br>Dudgeon   | 233450<br>(Parametric<br>Sonar data)       |
| 7025  | High amplitude<br>reflector | P1                  | 1.0  | 0.4                              | A high amplitude reflector identified during the 2009 data assessment and interpreted as being possible peat. Feature was identified beneath a unit of Holocene sands and above the interpreted Bolders Bank Formation and partially above a possible Botney Cut channel (7026). Feature is reported as being identified 1 - 4 m below the trough of sand wave.   | DEP S to DEP<br>N along<br>Dudgeon   | 69680                                      |
| 7026  | Channel                     | P1                  | -    | 4.0                              | An interpreted Botney Cut feature was identified during the 2009 assessment, reported as being cut below trough of overlying sand waves with a maximum cut depth approximately 4m. The feature is partially situated beneath a high amplitude reflector, interpreted as being possible peat (7025 and 7032). Feature is reported as cutting into underlying Bolders Bank formation with fill  | DEP S to DEP<br>N along<br>Dudgeon   | 69680                                      |

| ID    | Classification           | Archaeological | Depth<br>(mB | Range<br>SB) | Description  | Area                               | Data Source                          |
|-------|--------------------------|----------------|--------------|--------------|--|------------------------------------|--------------------------------------|
|       |                          | uschimation    | From         | То           | which is more transparent than the surrounding sediment. The feature has   |                                    |                                      |
|       |                          |                |              |              | was sampled as part of geotechnical investigations undertaken in 2013/4<br>(BH06) and found to contain material of paleoenvironmental interest. Possible<br>Botney Cut channel.  |                                    |                                      |
| 7032  | High amplitude reflector | P1             | -            | 2.0          | A high amplitude reflector identified during the 2009 data assessment and<br>interpreted as being possible peat. Feature was identified beneath a unit of<br>Holocene sands and above an interpreted Botney Cut Channel (7026).<br>Feature is reported as being identified less than 2 m below the trough of sand<br>wave.   | DEP S to DEP<br>N along<br>Dudgeon | 69680                                |
| 79046 | Simple cut and fill      | P2             | 0.5          | 3.4          | A shallow simple cut and fill cutting into the interpreted Bolders Bank formation identified during the most recent phase of assessment. Feature is identified beneath a distinct, horizontal reflector which is possibly the base of the mobile sand unit, however has the potential of being an erosion surface which may form part of a former terrestrial environment. The feature has a distinct basal reflector and relatively chaotic fill. The feature is located approximately 320 m north of feature 7026 which was identified during the 2009 assessment. Feature 7026 was sampled as part of geotechnical investigations undertaken in 2013/4 and found to contain material of palaeoenvironmental interest. It is possible that this feature represents an internal Bolders Bank feature however, based on its form and proximity to feature 7026, it has been retained here as a feature of possible interest. | DEP S to DEP<br>N along<br>Dudgeon | 233450<br>(Parametric<br>Sonar data) |
| 79047 | Simple cut and fill      | P2             | 0.4          | 1.7          | A shallow simple cut an fill cutting into the interpreted Bolders Bank formation identified during the most recent phase of assessment beneath a distinct, horizontal reflector which is possibly the base of the mobile sand unit, however has the potential of being an erosion surface which may form part of a former terrestrial environment. The feature has a distinct basal reflector and relatively chaotic fill. The feature is located approximately 170 m north of feature 7026 which was identified during the 2009 assessment. Feature 7026 was sampled as part of geotechnical investigations undertaken in 2013/4 (BH06) and found to contain material of palaeoenvironmental interest. It is possible that this feature represents an internal Bolders Bank feature however, based on its form and proximity to feature 7026, it has been retained here as a feature of possible interest.                  | DEP S to DEP<br>N along<br>Dudgeon | 233450<br>(Parametric<br>Sonar data) |

| ID    | Classification      | Archaeological discrimination | Depth<br>(mB | Range<br>SB)     | Description   | Area   | Data Source                          |
|-------|---------------------|-------------------------------|--------------|------------------|---|--|--------------------------------------|
| 79061 | Channel             | P1                            | <b>From</b>  | <b>To</b><br>4.8 | A complex channel identified either directly below the seabed or below a veneer or modern marine sediments, cutting into the interpreted Bolders Bank formation. The feature has a distinct, basal reflector and fill which is generally characterised by numerous draping reflectors but occasionally seen to be acoustically chaotic. The feature is orientated roughly south-west to north-east. Possibly associated with nearby feature 79019.  | Through SEP<br>along<br>Sheringham<br>Shoal and<br>Straight<br>through SEP | 233450<br>(Parametric<br>Sonar data) |
| 79062 | Simple cut and fill | P2                            | 0.4          | 5.2              | A shallow simple cut and fill identified during the most recent phase of assessment beneath an acoustically chaotic layer interpreted as being a unit of marine sediments, cut into the interpreted Bolders Bank Formation. The feature has a distinct basal reflector and fill characterised by numerous faint sub-horizontal reflectors. Possibly related to nearby complex channel 79061 and 79019.  | Through SEP<br>along<br>Sheringham<br>Shoal                                | 233450<br>(Parametric<br>Sonar data) |
| 79063 | Channel             | P1                            | 0.2          | 7.0              | A shallow channel identified during the most recent phase of assessment,<br>either directly below the seabed or below a veneer or modern marine<br>sediments, cutting into the interpreted Bolders Bank formation. Feature has a<br>distinct, undulating basal reflector. Feature fill is generally characterised by<br>numerous, faint sub-horizontal reflectors, but appears chaotic towards the<br>edges. Possible Botney Cut channel. Possibly related to nearby complex<br>channels 79061 and 79019.                             | Straight<br>through SEP  | 233450<br>(Parametric<br>Sonar data) |
| 79064 | Simple cut and fill | P2                            | 0.3          | 1.4              | A small shallow, simple cut and fill identified during the most recent phase of assessment either directly below the seabed or below a veneer or modern marine sediments, cutting into the interpreted Bolders Bank formation. Feature has a distinct basal reflector and slightly layered fill. Located approximately 90 m north-west of channel feature 79063 and possibly related.   | Straight<br>through SEP  | 233450<br>(Parametric<br>Sonar data) |
| 79073 | Channel             | P1                            | 0.1          | 3.5              | A shallow channel identified during the most recent phase of assessment<br>either directly below the seabed or below a veneer or modern marine<br>sediments, cutting into the interpreted Bolders Bank formation. Feature has a<br>distinct, undulating basal reflector. Feature fill is generally characterised by<br>numerous, faint sub-horizontal reflectors, but appears chaotic in some areas<br>where the exact extents are hard to discern. Possibly related to nearby<br>complex channel 79074. Possible Botney Cut channel. | Straight<br>through SEP  | 233450<br>(Parametric<br>Sonar data) |
| 79074 | Channel             | P1                            | 0.2          | 4.8              | An area of complex channelling identified during the most recent phase of assessment cutting into the interpreted Bolders Bank formation. Channel fill is characterised by numerous horizontal reflectors, possibly indicating well-  | Straight<br>through SEP  | 233450<br>(Parametric<br>Sonar data) |

| ID    | Classification      | Archaeological | Depth<br>(mB | Range<br>SB) | Description  | Area  | Data Source                          |
|-------|---------------------|----------------|--------------|--------------|--|---|--------------------------------------|
|       |                     | discrimination | From         | То           |  |   |                                      |
|       |                     |                |              |              | layered sediments which may have been deposited in a low-energy<br>environment. Feature is largely identified beneath a distinct, flat, horizontal<br>reflector overlain by a slightly layered, occasionally chaotic unit. It is possible<br>that this horizontal reflector represents the base of the mobile sand unit;<br>however, there is also the possibility of the feature representing an erosion<br>surface or former terrestrial landscape which has the potential to contain<br>sediments and material of palaeoenvironmental and archaeological interest.<br>Feature corresponds with a very slight topographic high identified on the<br>MBES data indicating a possible banked feature.  |   |                                      |
| 79080 | Simple cut and fill | P2             | 0.1          | 2.7          | A small, shallow simple cut and fill identified during the most recent phase of<br>assessment either directly below the seabed or below a veneer or modern<br>marine sediments, cutting into the interpreted Bolders Bank formation. Feature<br>has a distinct, undulating basal reflector and unit fill characterised by draping<br>reflectors indicating slightly layered fill. Possible small cut and fill, however,<br>also has the potential of being an internal Bolders bank feature. Possibly<br>related to nearby feature 79081.  | Straight<br>through SEP                     | 233450<br>(Parametric<br>Sonar data) |
| 79081 | Simple cut and fill | P2             | 0.3          | 6.0          | A small, shallow simple cut and fill identified during the most recent phase of<br>assessment either directly below the seabed or below a veneer or modern<br>marine sediments, cutting into the interpreted Bolders Bank formation. Feature<br>has a faint, undulating basal reflector which is not always clearly discernible.<br>Unit fill is characterised by draping reflectors indicating slightly layered fill.<br>Possible small cut and fill, however, also has the potential of being an internal<br>Bolders bank feature. Possibly related to nearby feature 79080.   | Straight<br>through SEP                     | 233450<br>(Parametric<br>Sonar data) |
| 79082 | Channel             | P1             | 0.1          | 5.4          | An area of complex channelling identified during the most recent phase of<br>assessment cutting into the interpreted Bolders Bank formation beneath a<br>veneer of modern marine sediments. Channel fill is multi-phase and<br>characterised by numerous horizontal reflectors, possibly indicating well-<br>layered sediments which may have been deposited in a low-energy<br>environment. Towards the north, a distinct, flat, horizontal reflector is identified<br>at the top of the feature. It is possible that this horizontal reflector represents<br>an erosion surface or former terrestrial landscape which has the potential to<br>contain sediments and material of palaeoenvironmental and archaeological<br>interest; however it may also be the base of a later phase of fill. Basal reflector<br>is not always clearly discernible making the exact extents of the feature hard to<br>define. Possible Botney Cut channel. | Through SEP<br>along<br>Sheringham<br>Shoal | 233450<br>(Parametric<br>Sonar data) |

#### Appendix II Seabed features of archaeological potential

| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------------------------------|--------------------------------------|---------------------|
| 72513 | Dark reflector | 386278  | 5909969  | A2                            | 2.6           | 0.8          | 0.2           | -                             | Identified in the most recent SSS<br>dataset as an elongate, slightly<br>rounded dark reflector with a short,<br>distinct shadow which appears longer<br>at one end, indicating varying heights.<br>No corresponding MBES contacts<br>and no corresponding magnetic<br>response, however it is not directly<br>covered by magnetometer line and<br>therefore the possibility of some<br>ferrous material being present<br>remains. Possible debris however has<br>the potential of being a natural<br>feature. | DEP S to<br>DEP N<br>along<br>Dudgeon | 233450                               | -                   |
| 7035  | Wreck          | 387699  | 5905833  | A1                            | 33.3          | 11.6         | 1.9           | 236                           | A wreck identified during the 2009<br>assessment as a wreck with hull and<br>superstructure clearly visible on the<br>SSS data, with no associated scour.<br>Feature corresponds with the UKHO<br>position for Aquarius (possibly), which<br>was a British steam trawler of 187<br>gross tons that was mined when<br>proceeding from Grimsby to fishing<br>grounds (UKHO 9509).  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680                                | UKHO 9509           |
| 7088  | Debris         | 387543  | 5904417  | A2                            | 3.6           | 1.6          | 0.0           | -                             | Feature identified during the 2009<br>geophysical assessment and<br>interpreted as being a possible item<br>of debris.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680                                | -                   |
| 70025 | Magnetic       | 387898  | 5903899  | A2                            | -             | -            | -             | 68                            | A medium, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description   | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|---|---------------------------------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | which is either buried or has no surface expression.  |                                       |                                      |                     |
| 70026 | Magnetic       | 387864  | 5903966  | A2                            | -             | -            | -             | 19                            | A small positive monopole identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.                   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 7078  | Debris         | 387820  | 5903394  | A2                            | 3.4           | 0.4          | 0.3           | -                             | Feature identified during the 2009<br>geophysical assessment and<br>interpreted as being a possible item<br>of debris.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680                                | -                   |
| 7061  | Debris         | 387549  | 5902953  | A2                            | 3.1           | 1.7          | 0.6           | -                             | Feature identified during the 2009<br>geophysical assessment and<br>interpreted as being a possible item<br>of debris, possibly with more than one<br>object present.                   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680                                | -                   |
| 70000 | Magnetic       | 387793  | 5902855  | A2                            | -             | -            | -             | 125                           | A large, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.          | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70001 | Magnetic       | 387791  | 5902821  | A2                            | -             | -            | -             | 98                            | A medium, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.         | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70003 | Dark Reflector | 387814  | 5902603  | A2                            | 1.3           | 0.3          | 0.2           | -                             | Distinct curvilinear anomaly with a tapered shadow identified during the 2014 geophysical assessment. The feature is reported as being visible on a quiet area of seabed. Possible item | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------------------------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | of debris however has the potential of being a natural feature.  |                                       |                                      |                     |
| 7064  | Dark Reflector | 388342  | 5902245  | A2                            | 1.6           | 0.6          | 0.5           | -                             | Distinct, slightly angular, anomaly<br>with a clear tapered shadow identified<br>during the 2009 and 2014<br>geophysical assessments. Smaller,<br>possibly associated, features (70006,<br>70007 and 70008) surround the<br>anomaly. Possible item of debris<br>however has the potential of being a<br>natural feature. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 70006 | Dark Reflector | 388326  | 5902241  | A2                            | 1.3           | 0.3          | 0.2           | -                             | Elongated and angular with a distinct<br>trapezium shadow identified during<br>the 2014 assessment on quiet<br>seabed in the vicinity of similar<br>features (7064, 70007, 70008).<br>Possible item of debris however has<br>the potential of being a natural<br>feature.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 70007 | Dark Reflector | 388325  | 5902231  | A2                            | 1.2           | 0.8          | 0.4           | -                             | Angular and distinct anomaly with a rounded rectangular shadow identified during the 2014 assessment on a quiet seabed in the vicinity of similar anomalies (7064, 70006, 70008). Possible item of debris however has the potential of being a natural feature.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 70008 | Dark Reflector | 388324  | 5902234  | A2                            | 0.6           | 0.1          | 0.1           | -                             | Elongated anomaly with a short<br>triangular shadow identified during<br>the 2014 assessment. Proximal to<br>7064, 70006, 70007. Possible item of<br>debris however has the potential of<br>being a natural feature.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description   | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|---|---------------------------------------|--------------------------------------|---------------------|
| 70012 | Dark Reflector | 388552  | 5901962  | A2                            | 1.4           | 0.5          | 0.3           | -                             | Slightly angular anomaly with a tapered shadow identified during the 2014 assessment on empty seabed. Possible item of debris however has the potential of being a natural feature.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 7050  | Dark reflector | 388578  | 5901760  | A2                            | 1.8           | 0.9          | 0.4           | -                             | Feature identified during the 2009<br>geophysical assessment as a<br>possible item of debris. Feature is<br>reported as being a possible item of<br>debris or boulder. Based on its<br>description, the feature has been<br>reclassified as a dark reflector. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680                                | -                   |
| 7059  | Dark Reflector | 388963  | 5901712  | A2                            | 0.6           | 0.5          | 0.3           | -                             | Distinct anomaly with a tapered<br>shadow identified during the 2009<br>and 2014 assessments. Possible<br>item of debris however has the<br>potential of being a natural feature.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 7049  | Debris         | 389428  | 5900810  | A2                            | 5.0           | 1.2          | 0.1           | -                             | Feature identified during the 2009<br>geophysical assessment and<br>interpreted as being a possible item<br>of debris or disturbed sediment.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680                                | -                   |
| 70019 | Magnetic       | 390248  | 5900613  | A2                            | -             | -            | -             | 40                            | Small but distinct anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70846 | Magnetic       | 390226  | 5900535  | A2                            | -             | -            | -             | 21                            | Small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------------------------------|--------------------------------------|---------------------|
| 70847 | Magnetic       | 390249  | 5900516  | A2                            | -             | -            | -             | 23                            | Small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70848 | Magnetic       | 390309  | 5900480  | A2                            | -             | -            | -             | 39                            | Small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70849 | Debris         | 390440  | 5900425  | A2                            | 4.0           | 1.1          | 0.2           | 260                           | Feature was originally identified<br>during the 2009 assessment as a<br>possible item of debris (7062). During<br>the 2014 assessment, the feature<br>was identified again (70849) as two<br>immediately adjacent, near parallel,<br>distinct hard edged elongated dark<br>reflectors measuring 2.0 x 0.3 x 0.1<br>m, with a defined rectangular shadow<br>visible. The feature was seen to have<br>a large associated magnetic contact<br>indicating ferrous contact. Possible<br>ferrous debris. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 70850 | Dark Reflector | 390306  | 5900333  | A2                            | 1.8           | 1.0          | 0.3           | -                             | Distinct angular anomaly isolated on<br>a quiet seabed identified during the<br>2014 assessment. Possible item of<br>debris however has the potential of<br>being a natural feature.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70851 | Dark Reflector | 390432  | 5900310  | A2                            | 1.2           | 0.9          | 0.3           | -                             | Isolated angular anomaly with a<br>defined tapered shadow identified<br>during the 2014 assessment.<br>Possible item of debris however has   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------------------------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | the potential of being a natural feature.  |                                       |                                      |                     |
| 70880 | Magnetic       | 390556  | 5900084  | A2                            | -             | -            | -             | 75                            | A medium, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment (70880). Originally<br>identified during the 2009 assessment<br>as a small anomaly measuring 4 nT<br>(7259) however the position and<br>amplitude has been taken from the<br>2014 assessment. Possible ferrous<br>debris which is either buried or has no<br>surface expression. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 70879 | Debris         | 390707  | 5899962  | A2                            | 1.9           | 0.8          | 0.4           | 133                           | Elongated rectangular anomaly with a rectangular shadow identified during the 2014 assessment. Feature is reported as having a slight, oblong depression before it and curvilinear scour. Large associated magnetic contact. Possible ferrous debris.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70852 | Magnetic       | 390963  | 5899958  | A2                            | -             | -            | -             | 431                           | A large, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 7236  | Magnetic       | 390961  | 5899815  | A2                            | -             | -            | -             | 17                            | A small magnetic anomaly identified<br>during the 2009 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680                                | -                   |
| 70873 | Magnetic       | 391061  | 5899603  | A2                            | -             | -            | -             | 51                            | A medium, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Part of an area of  | DEP S to<br>DEP N                     | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------------------------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | multiple anomalies. Possible ferrous<br>debris which is either buried or has no<br>surface expression.   | along<br>Dudgeon                      |                                      |                     |
| 70874 | Magnetic       | 391046  | 5899617  | A2                            | -             | -            | -             | 125                           | A large, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Part of an area of<br>multiple anomalies. Possible ferrous<br>debris which is either buried or has no<br>surface expression. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70875 | Magnetic       | 391049  | 5899630  | A2                            | -             | -            | -             | 36                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Part of an area of<br>multiple anomalies. Possible ferrous<br>debris which is either buried or has no<br>surface expression.           | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70876 | Magnetic       | 391038  | 5899633  | A2                            | -             | -            | -             | 30                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Part of an area of<br>multiple anomalies. Possible ferrous<br>debris which is either buried or has no<br>surface expression.           | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70330 | Magnetic       | 391190  | 5899834  | A2                            | -             | -            | -             | 24                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70329 | Magnetic       | 391252  | 5899857  | A2                            | -             | -            | -             | 35                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------------------------------|--------------------------------------|---------------------|
| 70328 | Magnetic       | 391285  | 5899840  | A2                            | -             | -            | -             | 31                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70326 | Magnetic       | 391410  | 5899691  | A2                            | -             | -            | -             | 39                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70853 | Dark Reflector | 391350  | 5899643  | A2                            | 1.6           | 1.3          | 0.4           | -                             | Distinct angular anomaly with a<br>distinct hard edge and with a<br>rectangular shadow with diffuse<br>edges identified during the 2014<br>geophysical assessment. Located<br>near similar anomaly, approximately<br>29 m SSW (70854). Possible item of<br>debris however has the potential of<br>being a natural feature. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70854 | Dark Reflector | 391356  | 5899670  | A2                            | 1.3           | 0.9          | 0.3           | -                             | Angular anomaly with a distinct<br>tapered shadow identified during the<br>2014 geophysical assessment. on a<br>quiet seabed. Located approximately<br>29 m to the NNE of similar anomaly<br>(70853). Possible item of debris<br>however has the potential of being a<br>natural feature.                                  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70855 | Magnetic       | 391393  | 5899598  | A2                            | -             | -            | -             | 34                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------------------------------|--------------------------------------|---------------------|
| 70856 | Dark Reflector | 391507  | 5899564  | A2                            | 0.9           | 0.8          | 0.2           | -                             | Slightly angular anomaly with a<br>distinct tapered shadow identified<br>during the 2014 geophysical<br>assessment. Possible item of debris<br>however has the potential of being a<br>natural feature.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 7058  | Debris         | 391546  | 5899608  | A2                            | 1.7           | 1.0          | 0.4           | -                             | Distinct elongated anomaly with a clear tapered shadow on a quiet seabed. Identified during both the 2009 and 2014 geophysical assessments. Possible item of debris.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 7046  | Debris         | 391258  | 5899468  | A2                            | 3.2           | 0.4          | 0.2           | -                             | A possible item of debris identified<br>during the 2009 assessment. Feature<br>wasn't identified in the geophysical<br>data during the 2014 assessment and<br>the feature was interpreted as<br>possibly having been covered by<br>sediment.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 70870 | Dark reflector | 391295  | 5899297  | A2                            | 2.2           | 1.0          | 0.5           | -                             | A distinct anomaly with tapered<br>shadow identified during the 2014<br>assessment. This is located<br>approximately 5 m south-east of an<br>item of debris identified during the<br>2009 assessment. Based on the<br>proximity, the features are likely the<br>same and, as such, have been<br>grouped together here. The<br>measurements have been updates<br>and the position has been taken from<br>the 2014 assessment. Possible item<br>of debris however has the potential of<br>being a natural feature. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description   | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|---|---------------------------------------|--------------------------------------|---------------------|
| 70871 | Dark Reflector | 391308  | 5899336  | A2                            | 1.1           | 0.7          | 0.3           | -                             | Distinct triangular anomaly with a clear tapered shadow identified during the 2014 geophysical assessment. Possible item of debris however has the potential of being a natural feature.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70872 | Magnetic       | 391342  | 5899360  | A2                            | -             | -            | -             | 308                           | A large, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Part of an area of<br>multiple anomalies. Possible ferrous<br>debris which is either buried or has no<br>surface expression.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70857 | Dark Reflector | 391541  | 5899474  | A2                            | 1.2           | 0.7          | 0.4           | -                             | Distinct elongated anomaly a hard<br>edge and tapered shadow identified<br>during the 2014 geophysical<br>assessment. Feature reported as<br>being surrounded by similar, smaller<br>anomalies. Possible item of debris<br>however has the potential of being a<br>natural feature. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70858 | Dark Reflector | 391532  | 5899444  | A2                            | 1.1           | 0.8          | 0.1           | -                             | Diffuse angular anomaly with a small<br>shadow identified during the 2014<br>geophysical assessment. Feature<br>reported as being surrounded by<br>similar, smaller anomalies. Possible<br>item of debris however has the<br>potential of being a natural feature.                  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70859 | Dark Reflector | 391529  | 5899432  | A2                            | 0.8           | 0.2          | 0.1           | -                             | Slightly elongated anomaly with a<br>distinct shadow showing some height<br>variation identified during the 2014<br>geophysical assessment. Feature<br>reported as being surrounded by<br>similar, smaller anomalies. Possible  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------------------------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | item of debris however has the potential of being a natural feature.   |                                       |                                      |                     |
| 70860 | Debris         | 391485  | 5899453  | A2                            | 1.5           | 0.7          | 0.4           | -                             | Irregular anomaly, partial semi-circle<br>which appears slightly buried<br>identified during the 2014 geophysical<br>assessment. Distinct shadow visible<br>showing some height variation.<br>Possible item of debris.                               | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70861 | Debris         | 391471  | 5899411  | A2                            | 3.4           | 0.5          | 0.1           | 70                            | A diffuse rectangular elongated<br>anomaly with a clear oblong shadow<br>identified during the 2014 geophysical<br>assessment. Associated with a<br>medium magnetic contact. Possible<br>ferrous debris.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 7057  | Debris         | 391771  | 5899459  | A2                            | 2.3           | 0.4          | 0.5           | -                             | Distinct, hard edged anomaly with a<br>defined triangular shadow and slight<br>depression on a quiet seabed.<br>Identified during the 2009 and 2014<br>geophysical assessment. Possible<br>item of debris.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 70323 | Debris         | 391730  | 5899448  | A2                            | 53.0          | 0.3          | 0.1           | -                             | Curvilinear dark reflector with a<br>diffuse oblong shadow identified<br>during the 2014 geophysical<br>assessment. Joins anomaly 70324.<br>Possible linear item of debris or rope<br>or chain, however has the potential of<br>being a seabed scar. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70324 | Depression     | 391718  | 5899451  | A2                            | 5.0           | 2.1          | 0.3           | -                             | Circular dark reflector with an<br>associated bright reflector identified<br>during the 2014 geophysical<br>assessment. Proximal to linear<br>feature 70323. Identified on the   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description   | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|---|---------------------------------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | multibeam bathymetry as a shallow<br>depression. Possible partially buried<br>debris item however has the potential<br>of being an anchor pull up scar.   |                                       |                                      |                     |
| 70862 | Magnetic       | 391666  | 5899378  | A2                            | -             | -            | -             | 158                           | A large, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Part of an area of<br>multiple anomalies. Possible ferrous<br>debris which is either buried or has no<br>surface expression.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70863 | Debris         | 391690  | 5899233  | A2                            | 1.4           | 1.1          | 0.6           | -                             | Distinct anomaly with a clear<br>elongated hard edge identified during<br>the 2014 geophysical assessment.<br>Defined tapered shadow visible.<br>Possible item of debris.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 7051  | Dark reflector | 391585  | 5899174  | A2                            | 1.1           | 0.2          | 0.2           | -                             | Feature identified during the 2009<br>geophysical assessment. Feature is<br>reported as being a possible item of<br>debris or boulder and, as such, has<br>been reclassified as a dark reflector.<br>Feature was not identified during the<br>2014 geophysical assessment<br>possibly due to being subsequently<br>covered by sediment. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 70867 | Magnetic       | 391413  | 5899215  | A2                            | -             | -            | -             | 298                           | A large, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Part of an area of<br>multiple anomalies. Possible ferrous<br>debris which is either buried or has no<br>surface expression.  | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70864 | Dark Reflector | 391476  | 5899172  | A2                            | 1.1           | 1.0          | 0.3           | -                             | Diffuse, slightly elongated anomaly with a clear tapered shadow identified  | DEP S to<br>DEP N                     | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                                  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------------------------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | during the 2014 geophysical<br>assessment. Possible item of debris<br>however has the potential of being a<br>natural feature.   | along<br>Dudgeon                      |                                      |                     |
| 70865 | Dark Reflector | 391472  | 5899176  | A2                            | 8.0           | 0.7          | 0.3           | -                             | A diffuse anomaly with a surrounding<br>depression with tapered shadow<br>identified during the 2014<br>assessment. This is located<br>approximately 2 m north-east of an<br>item of debris identified during the<br>2009 assessment. Based on the<br>proximity, the features are likely the<br>same and, as such, have been<br>grouped together here. The<br>measurements have been updated<br>and the position has been taken from<br>the 2014 assessment. Possible item<br>of debris however has the potential of<br>being a natural feature. | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680, 69682                         | -                   |
| 7052  | Debris         | 391776  | 5899143  | A2                            | 1.9           | 0.9          | 0.5           | -                             | Feature identified during the 2009<br>geophysical assessment and<br>interpreted as being a possible item<br>of debris.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69680                                | -                   |
| 70318 | Magnetic       | 392014  | 5899223  | A2                            | -             | -            | -             | 21                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |
| 70319 | Magnetic       | 391990  | 5899207  | A2                            | -             | -            | -             | 57                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon | 69682                                | -                   |



| ID    | Classification        | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|-----------------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---|--------------------------------------|---------------------|
| 70312 | Magnetic              | 392347  | 5898995  | A2                            | -             | -            | -             | 22                            | A small, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon           | 69682                                | -                   |
| 70311 | Magnetic              | 392416  | 5898920  | A2                            | -             | -            | -             | 34                            | A small, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | DEP S to<br>DEP N<br>along<br>Dudgeon           | 69682                                | -                   |
| 7056  | Seabed<br>disturbance | 393029  | 5898410  | A2                            | 3.5           | 0.3          | 0.2           | -                             | Feature identified during the 2009<br>geophysical assessment and<br>interpreted as being a possible<br>seabed disturbance. Possibly<br>contains debris items however may<br>be a natural feature.  | DEP S to<br>DEP N<br>along<br>Dudgeon           | 69680                                | -                   |
| 70258 | Dark Reflector        | 394551  | 5897132  | A2                            | 8.3           | 0.2          | 0.2           | -                             | A diffuse elongated dark reflector<br>orientated perpendicular to the<br>sediment trend identified during the<br>2014 geophysical assessment.<br>Feature is reported as having an<br>irregular shadow. Possible item of<br>debris however has the potential of<br>being a natural feature.                               | DEP S to<br>DEP N<br>along<br>Dudgeon           | 69682                                | -                   |
| 7124  | Debris                | 379429  | 5887967  | A2                            | 20.2          | 0.2          | 0.1           | -                             | Previously identified in the 2009<br>dataset as linear debris. The feature<br>was not identified within the most<br>recent dataset. It is possible that this<br>is due to burial by mobile sediments<br>and, as such, the feature has been<br>retained as potential archaeology<br>based on the previous interpretation. | Through<br>SEP<br>along<br>Sheringha<br>m Shoal | 61035,<br>233450                     | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area  | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---|--------------------------------------|---------------------|
| 72640 | Debris field   | 380064  | 5887128  | A2                            | 16.9          | 7.1          | 0.5           | -                             | Identified in the most recent SSS<br>dataset as a group of very small dark<br>reflectors with bright shadows. No<br>corresponding MBES contacts and<br>not covered by magnetometer data<br>and, as such, it is not possible to<br>confirm whether the feature is<br>comprised ferrous material. Possible<br>debris field.  | Through<br>SEP<br>along<br>Sheringha<br>m Shoal | 233450                               | -                   |
| 72632 | Magnetic       | 382479  | 5884311  | A2                            | -             | -            | -             | 21                            | Identified in the most recent Mag.<br>dataset as a small, broad dipole. No<br>corresponding SSS or MBES<br>contacts. Possible ferrous debris<br>either buried or with no surface<br>expression.  | Straight<br>through<br>SEP                      | 233450                               | -                   |
| 72593 | Debris field   | 382823  | 5884249  | A2                            | 27.1          | 22.8         | 0.5           | -                             | Identified in the most recent SSS<br>dataset as a large spread of dark<br>reflectors with shadows, comprising<br>small rounded objects and more<br>elongated features, situated on a<br>featureless area of the seabed. In the<br>MBES data this is visible as an area<br>of small mounds within a depression.<br>There are five clear separate<br>mounds, the largest measures 2.3 x<br>2.2 x 0.1 m. The depression extends<br>to the south and appears angular and<br>not easily definable. No<br>corresponding magnetic response.<br>Possible non-ferrous debris field. | Straight<br>through<br>SEP                      | 233450                               | -                   |
| 72596 | Wreck          | 382091  | 5886033  | A1                            | 36.4          | 15.6         | 0.5           | -                             | Identified in the most recent SSS<br>dataset, as a distinct oval outline<br>which is pointed at one end and<br>slightly flattened at the other,  | Straight<br>through<br>SEP                      | 233450                               | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area                       | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|----------------------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | interpreted as being a possible wreck.<br>Feature is orientated north-west to<br>south-east, and is situated on a<br>featureless area of seabed. The<br>possible hull appears intact on one<br>side and slightly more degraded on<br>the other. If a wreck, it may be<br>partially buried or, upside down as<br>there is very little internal detail<br>visible. In the MBES data the feature<br>is visible as a sub-rounded linear<br>mound. The outline of the hull is<br>distinct, however, there is no clear<br>internal structure visible. The north-<br>east side of the wreck has some<br>sediment accumulation along it. The<br>north-west end is rounded and whilst<br>distinct, has no clear edges unlike the<br>south-east end. Not directly covered<br>by magnetometer data and, as such,<br>it is not possible to confirm whether<br>the feature comprises ferrous<br>material, although if it were, it would<br>be expected to have been picked up<br>by the nearest survey lines given its<br>size, suggesting it may be largely<br>non-ferrous in its construction.<br>Feature has no corresponding UKHO<br>record. Possible debris however had<br>the potential of being a previously<br>uncharted wreck. |                            |                                      |                     |
| 72546 | Debris field   | 381779  | 5887533  | A2                            | 10.3          | 7.5          | 0.9           | -                             | Identified in the most recent SSS<br>dataset as a group of small dark<br>reflectors, a cluster of approximately<br>three objects with a very bright,   | Straight<br>through<br>SEP | 233450                               | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area          | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | uneven shadows and a rounded dark<br>reflector with a shadow close to this.<br>The feature looks anomalous to the<br>surrounding seabed. In the MBES<br>data this is visible as curved, elongate<br>mound directly next to a smaller,<br>rounded mound, situated at the north-<br>east edge of an area of sand waves.<br>No corresponding magnetic<br>response; however the feature isn't<br>directly covered by a line of<br>magnetometer data. Possible debris<br>field. |               |                                      |                     |
| 72683 | Dark reflector | 381738  | 5891245  | A2                            | 4.5           | 1.7          | 0.7           | -                             | Identified in the most recent SSS<br>dataset as a rounded dark reflector<br>with a bright pointed shadow. This<br>has variable reflectivity and appears<br>unusual, particularly within the clear<br>even seabed. It is visible in the MBES<br>dataset as an uneven rounded mound<br>with a possible secondary segment<br>on the east side. No corresponding<br>Mag. contact. Possible non-ferrous<br>debris however has the potential of<br>being a natural feature.      | Around<br>SEP | 233450                               | -                   |
| 70653 | Magnetic       | 383995  | 5884003  | A2                            | -             | -            | -             | 51                            | A medium magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.  | Around<br>SEP | 69682                                | -                   |
| 70651 | Magnetic       | 384172  | 5884371  | A2                            | -             | -            | -             | 50                            | A medium magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris   | Around<br>SEP | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description   | Area          | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|---|---------------|--------------------------------------|---------------------|
|       |                |         |          |                               |               |              |               |                               | which is either buried or has no surface expression.  |               |                                      |                     |
| 70645 | Magnetic       | 384110  | 5884522  | A2                            | -             | -            | -             | 495                           | A large, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.  | Around<br>SEP | 69682                                | -                   |
| 70646 | Magnetic       | 384151  | 5884523  | A2                            | -             | -            | -             | 83                            | A medium, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | Around<br>SEP | 69682                                | -                   |
| 70647 | Magnetic       | 384228  | 5884503  | A2                            | -             | -            | -             | 166                           | A large, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.  | Around<br>SEP | 69682                                | -                   |
| 70648 | Magnetic       | 384264  | 5884448  | A2                            | -             | -            | -             | 62                            | A medium, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | Around<br>SEP | 69682                                | -                   |
| 70807 | Debris         | 384722  | 5885456  | A2                            | 2.5           | 2.4          | 0.6           | 158                           | Hard edged partially buried dark<br>reflector anomaly with an internal<br>bright reflector and distinct shadow<br>identified during the 2014 geophysical<br>assessment. Hard edged anomaly,<br>isolated and distinct in a sandy part of<br>the seabed. Distinct associated<br>magnetic anomaly. Possible ferrous<br>debris. | Around<br>SEP | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description  | Area          | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|--|---------------|--------------------------------------|---------------------|
| 70640 | Magnetic       | 384768  | 5885694  | A2                            | -             | -            | -             | 50                            | A medium, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.  | Around<br>SEP | 69682                                | -                   |
| 70641 | Magnetic       | 384642  | 5885547  | A2                            | -             | -            | -             | 40                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | Around<br>SEP | 69682                                | -                   |
| 70637 | Magnetic       | 385080  | 5886312  | A2                            | -             | -            | -             | 30                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | Around<br>SEP | 69682                                | -                   |
| 70634 | Magnetic       | 385074  | 5886438  | A2                            | -             | -            | -             | 129                           | A large, distinct magnetic anomaly<br>identified during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | Around<br>SEP | 69682                                | -                   |
| 70633 | Magnetic       | 385139  | 5886653  | A2                            | -             | -            | -             | 33                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.   | Around<br>SEP | 69682                                | -                   |
| 70810 | Debris         | 385150  | 5886540  | A2                            | 2.4           | 0.4          | 0.3           | -                             | Irregular shaped linear hard-edged<br>dark reflector anomaly with a bright<br>shadow and in a slight depression<br>identified during the 2014 geophysical<br>assessment. Possible debris remains,<br>isolated and distinct on a flat and<br>even part of the seabed. | Around<br>SEP | 69682                                | -                   |



| ID    | Classification | Easting | Northing | Archaeological discrimination | Length<br>(m) | Width<br>(m) | Height<br>(m) | Magnetic<br>Amplitude<br>(nT) | Description   | Area          | Wessex<br>Archaeology<br>Report ref. | External references |
|-------|----------------|---------|----------|-------------------------------|---------------|--------------|---------------|-------------------------------|---|---------------|--------------------------------------|---------------------|
| 70632 | Magnetic       | 385081  | 5886778  | A2                            | -             | -            | -             | 38                            | A small magnetic anomaly identified<br>during the 2014 geophysical<br>assessment. Possible ferrous debris<br>which is either buried or has no<br>surface expression.  | Around<br>SEP | 69682                                | -                   |
| 70818 | Rope/chain     | 385507  | 5887246  | A2                            | 19.4          | 1.4          | 0.3           | 249                           | Diffuse looking long and thin linear<br>dark reflector with a faint shadow<br>extending from a dark, thin, 'hook' like<br>dark reflector with a bright shadow<br>identified during the 2014 geophysical<br>assessment. Corresponds with a<br>large magnetic anomaly. Possible<br>length of rope or chain with an<br>associated ferrous item of debris,<br>possibly an anchor. | Around<br>SEP | 69682                                | -                   |

1. Co-ordinates are in WGS84 UTM31N

2. Positional accuracy estimated ±10 m



























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