

THE LONDON RESORT

The London Resort Development Consent Order

BC080001

Environmental Statement Volume 2: Appendices

Appendix 14.10 – Summary of Impacts, Mitigation and Residual Effects

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Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

Regulation 12(1)

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Appendix 14.10 ♦ Cultural Heritage and Archaeology

SUMMARY OF IMPACTS, MITIGATION AND RESIDUAL EFFECTS

Table 1- Summary of impacts, mitigation and residual effects for the construction phase during the Proposed Development

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|--|---|------------------------------|---|---------------------|---|--|--|
| Archaeological Remains- Terrestrial | | | | | | | |
| 1003557 | Palaeolithic sites near Baker's Hole. Scheduled Monument | Very High | Scheduled Monument- direct effects for working area for retaining wall associated with the Resort Road. Embedded Mitigation for People Mover Route | High | Major Adverse for Resort Access Road Moderate Adverse for People Mover Route | Embedded Mitigation- People mover will be upon a lightweight polystyrene embankment, and physical impacts will be limited to topsoil stripping for the sand layer foundation. A retaining wall will be required which will need a foundation but will minimise physical impacts. Further assessment and evaluation and mitigation is proposed to record deposits at or near the current surface so that these are properly | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|-------------------|------------------------------|-----------------------------------|---------------------|---|---|--|
| | | | | | | investigated and recorded. The opportunity would be taken to sample the full depth of the underlying deposits as part of a comprehensive sampling programme to inform further management plans for the monument . | |
| | Baker's Hole SSSI | | SSSI-Permanent; Direct; Physical. | High | Major Adverse for Resort Access Road Moderate Adverse for People Mover Route | Embedded Mitigation- People mover and transport interchange roundabout will be upon a lightweight polystyrene embankment, and physical impacts will be limited to topsoil stripping for the sand layer foundation. Further assessment and mitigation is proposed to record deposits at or near the current surface so that these are properly investigated and recorded. The opportunity would be taken to sample the full depth of the underlying deposits as part of a comprehensive sampling programme to inform | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|---|------------------------------|---------------------------------------|---------------------|------------------------|---|--|
| | | | | | | further management plans for the monument | |
| 1003557 | Palaeolithic sites near Baker's Hole. Scheduled Monument and SSSI | Very High | Scheduled Monument- Indirect Effects; | Negligible | Not Significant | None Proposed | Not Significant |
| N/A | Undesignated Palaeolithic Deposits near Baker's Hole | Very High | Permanent; Direct; Physical | High | Major Adverse | Embedded mitigation- the section of the resort road between the new junction with the A2 and the existing A2260 will be constructed using the polystyrene embankment, which will only require the removal of the topsoil for foundation. Further assessment and evaluation is proposed and is forthcoming, after which appropriate mitigation measures can be formulated. Mitigation may include, but is not limited to, full scale excavation of all Palaeolithic archaeological material which will be physically impacted. | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|--------------------|--|------------------------------|---|---------------------|------------------------|--|--|
| | | | | | | Reduction in physical impacts to the through avoidance and limiting of the land take for working areas | |
| 1004206 | Neolithic sites near Ebbsfleet. Scheduled Monument | High | Direct Effect- but limited to 300mm depth | High | Major Adverse | Embedded Mitigation- Resort Access Road between new A2 junction and the A2260 will be upon a lightweight polystyrene embankment on top of the Scheduled Area. This will only require the removal of topsoil to a depth of up to 300mm. | Not Significant |
| 1005140 1004226 | Springhead Roman Site and Roman Enclosure SE of Vagniakis | High | Permanent; Indirect effects | Negligible | Not Significant | None proposed | Not Significant |
| 1004227 | Aspdin's Kiln | High | Permanent; Indirect effects | Negligible | Not Significant | None proposed | Not Significant |
| N/A | Continuation or remains associated with prehistoric and later activity identified around Ebbsfleet Station | Medium | Permanent; Direct Effects | High | Moderate Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|---|------------------------------|------------------------------|---------------------|------------------------|---|--|
| WA774 | J. B. White Portland Cement Works, Swanscombe | Medium | Permanent; Direct; Physical. | High | Moderate Adverse | Mitigation will include archaeological evaluation in the first instance, including excavation of all archaeological material and recording of industrial archaeology which will be physically impacted. Historic Building Recording of the upstanding structures. | Minor Adverse |
| WA790 | Tramway J. B. White Portland Cement Works, Swanscombe, 19th century | Medium | Permanent; Direct; Physical. | High | Moderate Adverse | Mitigation includes historic landscape survey of remains of the industrial remains of the Swanscombe cement works at ground level. | Minor Adverse |
| WA775 | Craylands Lane Pit, Swanscombe, 19th century | Low | Permanent; Direct; Physical | High | Minor Adverse | Mitigation will include archaeological evaluation in the first instance, including excavation of all archaeological material and recording of industrial archaeology which will be physically impacted. | Minor Adverse |
| WA940 | Derelict sewage works, modern | Negligible | Permanent; Direct; Physical. | High | Not Significant | None proposed | Not Significant |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|-------------------------|--|------------------------------|-----------------------------|---------------------|------------------------|--|--|
| WA727 | Farmstead/Outfarm | Low | Permanent; Direct; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material | Minor Adverse |
| WA888 WA802 WA887 | Air Raid Siren, Air Raid Shelter, communication shelter | Negligible | Permanent; Direct; Physical | High | Not Significant | None Proposed | Not Significant |
| WA1027 | Rectilinear Enclosure | Low | Permanent; Direct; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material | Minor Adverse |
| WA653 | Additional or associated remains of Post-medieval Ditch at Station Quarter South | Low | Permanent; Direct; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material which will be physically impacted. | Not Significant |
| WA566 | Additional or associated remains of Medieval Ditch at Springhead Nursery | Low | Permanent; Direct | High | Minor Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material which will be physically impacted. | Not significant |
| WA267 | Undesignated Remains relating to Springhead Roman Town | High | Permanent; Physical; Direct | High | Major Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material which will be physically impacted. | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|----------------------------------|--|------------------------------|--------------------------------|---------------------|------------------------|--|--|
| WA261 WA228 WA229 WA230 | Late Iron Age remains associated with Springhead | Medium | Permanent; Physical; Direct | High | Moderate Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material which will be physically impacted. | Minor Adverse |
| WA1037 | Cropmark | Unknown | Permanent; Physical; Direct | High | Unknown | Mitigation may include, but is not limited to, full scale excavation of all archaeological material which will be physically impacted. | Unknown |
| WA786 | Watercress Beds/Cultivation | Medium | Permanent; Physical; Direct | High | Moderate Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material which will be physically impacted. | Minor Adverse |
| WA770 | Britannia Cement Works | Low | Permanent; Direct; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material which will be physically impacted. | Not Significant |
| WA776 | Northfleet Papermills | Low | Permanent; Direct; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, full scale excavation of all archaeological material which will be physically impacted. | Not Significant |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|---|------------------------------|---|---------------------|------------------------|---|--|
| WA798 | Possible gatehouse or Factory Building | Negligible | Permanent; direct | High | Not Significant | None proposed | Not Significant |
| WA917 WA918 | Tramway Tunnels beneath London Road | Low | None- retained as part of development proposals | None | Not Significant | None proposed | Not Significant |
| WA919 | Tramway Tunnel beneath London Road | Low | Permanent; direct | High | Minor Adverse | Appropriate Historic Building Record | Not Significant |
| N/A | Potential geoarchaeological remains within Project Site | Unknown | Permanent; Physical; Direct | High | Unknown | Mitigation will include completion of geophysical survey on Swanscombe Peninsula, followed by Geoarchaeological Borehole Survey, both of which will inform a deposit Model. Effects to potential geoarchaeological deposits at the Essex Project Site will be mitigated through geoarchaeological borehole survey in the first instance. | Unknown |
| N/A | Other Archaeological remains currently unknown | Unknown | Permanent; Physical; Direct | High | Unknown | Mitigation may include, but is not limited to, full scale excavation of all archaeological material | Unknown |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|-----------------------|---|------------------------------|--|---------------------|------------------------|------------------------------------|--|
| | | | | | | which will be physically impacted. | |
| WA1086 | Riverside Tilbury-Earthworks Linear Features | Low | No physical effect based upon current design proposals | Negligible | Not Significant | None proposed | Not Significant |
| WA1088 | Site of former buildings near Tilbury Junctions | Low | No physical effect based upon current design proposals | Negligible | Not Significant | None proposed | Not Significant |
| WA1158 | Six Air Raid Shelters | Low | No physical effect based upon current design proposals | Negligible | Not Significant | None proposed | Not Significant |
| WA1161 | WWII Anti-aircraft ditches N of Little Thurrock Marshes | Low | No physical effect based upon current design proposals | Negligible | Not Significant | None proposed | Not Significant |
| Built Heritage | | | | | | | |
| WA674 | Milestone off of London Road | Low | No change; no physical impacts | None | Not Significant | None proposed | Not Significant |
| WA866 | George V Pillar Box | Low | No change; no physical impacts | None | Not Significant | None proposed | Not Significant |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|-----------------------------------|------------------------------|---------------------------------------|---------------------|------------------------|--|--|
| N/A | Historic dwelling on London Road | Low | Permanent Physical Effect | High | Minor Adverse | Appropriate Historic Building Record | Not Significant |
| N/A | George and Dragon Public House | Low | No change; assumes no physical impact | None | Not Significant | None proposed | Not Significant |
| WA970 | Thames Tar Distillery Works | Low | Permanent; Direct; Physical | High | Not Significant | Appropriate Historic Building Record | Not Significant |
| WA741 WA947 | Whites Jetty and Bell Wharf | Low | Permanent; Direct; Physical | High | Minor Beneficial | Appropriate Historic Building Record Embedded Mitigation; structures may be repaired and restored as part of the development proposals, securing their long term preservation | Minor Beneficial |
| WA774 | Portland cement works buildings | Low | Permanent; Physical; Direct | High | Low | Appropriate Historic Building Record | Minor Adverse |
| N/A | British Vegetable Parchment Mills | Low | Permanent; Physical; Direct | High | Minor Adverse | Appropriate Historic Building Record | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|-------------------|--|------------------------------|------------------------------|---------------------|------------------------|---|--|
| 1111547 | Grade II* Riverside Station and Landing Stage | High | Permanent; Direct; Physical. | Minor beneficial | Minor Beneficial | Appropriate Historic Building Record | Minor Beneficial |
| WA938 | Transmission Tower (super pylon) | High | No Physical effects | None | Not Significant | None proposed | Not significant |
| WA890 | Ebbsfleet International Station post-Cold War anti-vehicle bomb obstacles, Ebbsfleet, Dartford, Kent, modern | Negligible | No physical effects | None | Not Significant | None proposed | Not Significant |
| WA964 | Ebbsfleet International Station post-Cold War anti-vehicle bomb obstacles, Ebbsfleet, Dartford, Kent, modern | Negligible | Permanent; Direct | High | Not Significant | None proposed | Not Significant |
| Intertidal | | | | | | | |
| WA162 | A well preserved wooden stake and brushwood trackway, dating to the Bronze Age to Iron Age, on foreshore near the mouth of Broadness Creek | Medium | Permanent; Physical | High | Moderate Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|--|------------------------------|------------------------|---------------------|------------------------|---|--|
| WA647 | Wooden stakes and piles in foreshore by Swanscombe Marshes. They probably represent the remains of a previous sea wall. | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA648 | Possible wooden vessel, Swanscombe Marshes. Only partial remains of a probably flat bottomed, probably recent wooden vessel. | Medium | Permanent; Physical | High | Moderate Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA676 | Wooden structure, possibly the remains of a wharf, on foreshore by Swanscombe Marshes | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA677 | Large wooden planks on foreshore by Swanscombe Marshes | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA678 | Hard, Swanscombe Marshes | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA682 | 5 concrete pontoons by Swanscombe Marshes | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|---|---|------------------------|---------------------|------------------------|---|--|
| WA744 | Hard, Broadness | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA874 | Bell Wharf Second World War mine watching post, Swanscombe, Kent. The site probably originated in 1940, built at the end of Bell Wharf, and was decommissioned by 1945. The end of the pier was demolished c. 2000. | Low, site has since been removed, but some evidence may still remain on the seabed. | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Not significant |
| WA933 | Small concrete pier / quay by Broadness saltmarsh | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA934 | Abandoned wooden vessel in saltmarsh Broadness Creek. A modern wooden vessel, with rusting metal fittings. The base of wheelhouse and some engine fittings are visible, and the deck hatch cover appears to | Medium | Permanent; Physical | High | Moderate Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|--|------------------------------|---------------------|---------------------|------------------------|---|--|
| | be in situ. It is almost completely overgrown. | | | | | | |
| WA935 | Wooden posts in foreshore, by Broadness. The North Kent Coast RCZAS suggested they could be mooring bollards. | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA936 | Anti-tank blocks / sea defences Broadness | Medium | Permanent; Physical | High | Moderate Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA937 | Wooden foundation on foreshore at Botany Salt Marshes. They may be the remains of a 19 th century or later platform. | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA946 | Pier at Broadness. This pier was marked on the 2 nd and 3 rd edition OS maps, but by the 4 th edition, it has been replaced by a larger pier to the NE. | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, recording of all heritage assets which will be physically impacted | Minor Adverse |
| Marine | | | | | | | |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|---|------------------------------|---------------------|---------------------|------------------------|---|--|
| WA2001 | Wreck. The <i>Magdeburg</i> built in 1958. Sank and was refloated in 1965. Isolated material may remain. | Negligible | Permanent, Physical | High | Not significant | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data of assets to determine if material remains on the seabed, and recording of all heritage assets which will be physically impacted | Not Significant |
| WA2002 | Wreck. The <i>Hart</i> sank in 1976, record amended to 'dead' suggesting it had been lifted or salvaged. Only isolated material may remain. | Negligible | Permanent, Physical | High | Not significant | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data of assets to determine if material remains on the seabed, and recording of all heritage assets which will be physically impacted | Not significant |
| WA2003 | Wreck. The <i>Margaret Elizabeth</i> . Record amended to 'dead' suggesting it had been lifted or salvaged. Only isolated material may remain. | Negligible | Permanent, Physical | High | Not significant | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data of assets to determine if material remains on the seabed, and recording of all heritage assets which will be physically impacted | Not significant |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|--|------------------------------|---------------------|---------------------|------------------------|---|--|
| WA2004 | Wreck. The <i>Folgate</i> , sunk in 1982, record amended to 'dead' suggesting it had been lifted or salvaged. Only isolated material may remain. | Negligible | Permanent, Physical | High | Not significant | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data of assets to determine if material remains on the seabed, and recording of all heritage assets which will be physically impacted | Not significant |
| WA2005 | Wreck. An unknown wreck. | Medium | Permanent, Physical | High | Moderate Adverse | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data and recording of all heritage assets which will be physically impacted. The site appears to be exposed at low tide and could be included in an onshore assessment. | Minor Adverse |
| WA2006 | Wreck. Unknown wreck. | Medium | Permanent, Physical | High | Moderate Adverse | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data and recording of all heritage assets which will be physically impacted. The | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|--|------------------------------|---------------------|---------------------|------------------------|---|--|
| | | | | | | site appears to be exposed at low tide and could be included in an onshore assessment. | |
| WA2007 | Wreck. Unknown Wreck, lifted. Only isolated material may remain. | Negligible | Permanent, Physical | High | Not Significant | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data of assets to determine if material remains on the seabed, and recording of all heritage assets which will be physically impacted | Not Significant |
| WA2008 | Foul ground, along head of disused White's Jetty | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data, and recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA2009 | Foul ground, on site of Empire Paper Mill Jetty | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data, and recording of all heritage assets which will be physically impacted | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|--|------------------------------|---------------------|---------------------|------------------------|---|--|
| WA2010 | Foul ground | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data, and recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA2011 | Foul ground | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data, and recording of all heritage assets which will be physically impacted | Minor Adverse |
| WA2012 | Foul ground. Modern debris. | Negligible | Permanent, Physical | High | Not Significant | No further assessment required. | Not Significant |
| WA2013 | Foul ground, not identified. Record amended to dead. | Low | Permanent; Physical | High | Minor Adverse | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data of assets to determine if material remains on the seabed, and recording of all heritage assets which will be physically impacted | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|---|------------------------------|--|---------------------|------------------------|---|--|
| WA2014 | Wreck. The <i>Southport</i> sunk in 1955 and was later raised. Only isolated material may remain. | Negligible | Permanent, Physical | High | Not Significant | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data of assets to determine if material remains on the seabed, and recording of all heritage assets which will be physically impacted | Not Significant |
| WA2016 | Foul ground. Modern debris. | Negligible | Permanent, Physical | High | Not Significant | No further assessment required. | Not Significant |
| WA2017 | Foul ground, not identified. Record amended to dead. | Negligible | Permanent; Physical | High | Not Significant | None proposed | Not Significant |
| N/A | Potential marine assets on or under the seabed | Unknown | Permanent; Physical Permanent; Indirect | High | Unknown | Mitigation may include, but is not limited to, archaeological assessment of geophysical and/or diver/ROV survey data, and, archaeological recording of all heritage assets which will be physically impacted; watching brief during construction works; implementation of | Unknown |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------------------------|---|------------------------------|---------------------|---|------------------------|---|--|
| | | | | | | archaeological protocol for unexpected discoveries | |
| N/A | Palaeogeographic receptors | High | Permanent; Physical | High (assuming that these deposits survive) | Major Adverse | Mitigation may include further geotechnical surveys and archaeological assessment; implementation of archaeological protocol for unexpected discoveries | Minor Adverse |
| Historic Seascape Character | | | | | | | |
| N/A | Historic Seascape Character – Marine Study Area | Medium | Permanent; Indirect | Negligible | Not Significant | None proposed | Not Significant |

Table 2- Summary of impacts, mitigation and residual effects for the operational phase of the Proposed Development

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|-------------------------------|--|------------------------------|---|----------------------|--------------------------------|--|--|
| Archaeological Remains | | | | | | | |
| 1003557 | Palaeolithic sites near Baker's Hole Scheduled Monument and SSSI | Very High | Permanent; indirect | Negligible | Not Significant | None proposed | Not Significant |
| 1013378 | Medieval woodland boundary in Darenth Wood. Scheduled Monument | High | Permanent; Indirect; | None | Not Significant | None proposed | Not Significant |
| 1005140 1004226 | Springhead Roman Town and Roman enclosure SE of Vagniacis | High | Permanent; indirect | Negligible | Not Significant | None proposed | Not Significant |
| Marine | | | | | | | |
| N/A | Known marine assets | Medium to Negligible | Permanent, Direct, Permanent; Indirect | Medium to Negligible | Moderate to Negligible Adverse | Mitigation may include, but is not limited to, post-construction assessment of changes to erosion and deposition processes to review if scour has occurred and whether it has exposed any previously unknown | Minor Adverse |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|-------------------------------|--|------------------------------|--|---------------------|------------------------|---|--|
| | | | | | | archaeological material. | |
| N/A | Potential marine assets on or under the seabed | Unknown | Permanent, Direct, Permanent; Indirect | High | Unknown | Mitigation may include, but is not limited to, post-construction assessment of changes to erosion and deposition processes to review if scour has occurred and whether it has exposed any previously unknown archaeological material. | Unknown |
| Built Heritage | | | | | | | |
| 1021092 | Tilbury Fort | High | Permanent; Indirect | Negligible | Not Significant | None proposed | Not Significant |
| 1013658 1261173 1089047 | New Tavern Fort & Milton Chantry | High | Permanent; Indirect | Negligible | Not Significant | None proposed | Not Significant |
| 1005120 | Gravesend Blockhouse | High | Permanent; Indirect | Negligible | Not Significant | None proposed | Not Significant |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|--|------------------------------|-----------------------------|---------------------|------------------------|------------------------------|--|
| 1410237 | Boundary Stone Grade II | High | Permanent; indirect; | Negligible | Not Significant | None proposed | Not Significant |
| 1410227 | Garden Bridge, Ingress Park, Grade II | High | Permanent; indirect; | Negligible | Not Significant | None proposed | Not Significant |
| 1119762 | Swanscombe cutting footbridge crossing A2(T) east of A296 junction, Listed Building Grade II | High | Permanent; Indirect; | None | Not Significant | None proposed | Not Significant |
| 1410237 | Church of All Saints, Listed Building Grade II* | High | Permanent; Indirect; | Negligible | Not Significant | None proposed | Not Significant |
| 1147660 | Grade I Church of St Clement | High | Permanent; indirect effect; | Negligible | Not Significant | None proposed | Not Significant |
| 1147907 | Grade II Wharf Public House | High | Permanent; indirect effect; | Low | Minor Adverse | None proposed | Minor Adverse |
| 1427217 | Grade II White Hart Public House | High | Permanent; indirect effect; | Negligible | Not Significant | None proposed | Not Significant |
| 1101524 | Grade II 1 Knockhall Road | High | Permanent; indirect; | Negligible | Not Significant | None proposed | Not Significant |
| 1085779 | Grade II Ingress Abbey | High | Permanent; indirect; | Negligible | Not Significant | None proposed | Not Significant |
| WA938 | Transmission tower, Swanscombe Marshes, modern | High | Permanent; indirect; | Negligible | Not Significant | None proposed | Not Significant |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|--|------------------------------|-----------------------------|---------------------|------------------------|--|--|
| 1111547 | Grade II* Riverside Station and Landing Stage | High | Permanent; Indirect | Low | Minor Beneficial | Embedded Mitigation; the design will see the improvement of the fabric of the building (including re-roofing currently derelict parts) enabling the building to be retained in optimum viable use that is it will still serve its historic function as a ferry terminal. The setting of heritage asset will be enhanced by removal of aspects that contribute negatively to setting and improved landscaping. | Minor Beneficial |
| 1054093 | Church of St. Botolph Grade I | High | Permanent; Indirect; | Negligible | Not Significant | None proposed | Not Significant |
| 1085788 | Parish Church of St Peter and St Paul Swanscombe Grade I | High | Permanent; Indirect | None | Not Significant | None proposed | Not Significant |
| 1111632 | Worlds End Inn Grade II | High | Permanent; Indirect | Low | Minor Adverse | None proposed | Minor Adverse |
| N/A | Greenhithe Conservation Area | Medium | Permanent; Indirect effect; | Negligible | Not Significant | None proposed | Not Significant |
| N/A | High Street and Queen Street Conservation Area | Medium | Permanent; Indirect | Negligible | Not Significant | None proposed | Not Significant |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|-------------------------------------|---------------------------------------|------------------------------|--|---------------------|------------------------|--|--|
| N/A | Gravesend Riverside Conservation Area | Medium | Permanent; Indirect | None | Not Significant | None proposed | Not Significant |
| N/A | Lansdowne Square Conservation Area | Medium | Permanent; Indirect | Negligible | Not Significant | None proposed | Not Significant |
| Historic Landscape Character | | | | | | | |
| N/A | Swanscombe Peninsula | Negligible | Permanent; indirect; change to character | Negligible | Not Significant | Embedded mitigation-retention of areas of marshland in the eastern part of the peninsula | Not Significant |
| N/A | Darenth and Bean | Low | Permanent; Indirect | None | Not Significant | None proposed | Not Significant |
| N/A | Swanscombe | Low | Permanent; Indirect; A2(T) junction | Negligible | Not Significant | None proposed | Not Significant |
| N/A | Tilbury | Negligible | Permanent; Indirect | Negligible | Not Significant | None proposed | Not Significant |
| Historic Seascape Character | | | | | | | |

| Reference Number | Description | Heritage Sensitivity (Value) | Type of Effect | Magnitude of Impact | Significance of Effect | Proposed Mitigation Measures | Expected Residual Significance of Effect |
|------------------|---|------------------------------|---------------------|---------------------|------------------------|------------------------------|--|
| N/A | Historic Seascape Character – Marine Study Area | Medium | Permanent; Indirect | Negligible | Not Significant | None proposed | Not Significant |