



OIKOS MARINE & SOUTH SIDE DEVELOPMENT



PRELIMINARY ENVIRONMENTAL INFORMATION REPORT
VOLUME 3

Contents Page: Figures

PINS Reference TR030004
April 2021

Prepared by: Adams Hendry Consulting Limited

Contents Page Volume 3 Figures

Figure 1.1	Location Plan
Figure 1.2	OMSSD Project Boundary Plan
Figure 2.1	Existing Site Plan
Figure 2.2	Site and Surroundings
Figure 2.3	Statutory and Non-Statutory Nature Conservation Designations
Figure 3.1	The OMSSD Project
Figure 3.2	Structures to be Removed / Demolished
Figure 7.1	Habitat Features Plan
Figure 7.2	Reptile Refugia Locations and Survey Results
Figure 7.3	Invertebrates Quality Areas
Figure 7.4	Wintering Bird Survey Areas
Figure 7.5	Calor Road Site
Figure 8.1	Dredge Area
Figure 8.2	Study Area
Figure 8.3	Locations Time series L to P
Figure 8.4	Model High Water -3 hours
Figure 8.5	Model High Water +3 hours
Figure 8.6	Speed, Direction, Shear Stress
Figure 9.1	Designations
Figure 9.2	EA TrAC Sample Locations
Figure 9.3	Benthic Sample Locations
Figure 9.4	Fish Nurseries & Spawning Grounds
Figure 9.5	Fish Nurseries & Spawning Grounds (2)
Figure 11.1	Location of Oikos Facility and Surrounding Network
Figure 11.2	The Wider Transport Network
Figure 11.3	Location of Traffic Counters
Figure 12.1	Construction Dust Assessment Study Area
Figure 12.2	Operational Phase Assessment Study Area
Figure 12.3	Sensitive Human Health Receptor Locations
Figure 12.4	Sensitive Ecological Receptor Locations
Figure 12.5	Ecological Transect Receptor Locations
Figure 12.6	Locations of Rayleigh and Southend AQMAs
Figure 12.7	North Stifford AQMA
Figure 12.8	Monitoring Locations
Figure 12.9	20 m Distance Band Around OMSSD Boundary
Figure 12.10	50 m Distance Band Around Roads Used by Construction Traffic Within 500 m of OMSSD Boundary
Figure 12.11	Contour Plot of Annual Mean NO _x PCs
Figure 12.12	Contour Plot of Annual Mean Nutrient Nitrogen Deposition PCs
Figure 12.13	Contour Plot of Annual Mean Acid Nitrogen Deposition PCs

- Figure 14.1 Noise Sensitive Receptors and Monitoring Locations
Figure 14.2 Noise Sensitive Road Link Receptors
- Figure 15.1 Historical Site Layout Plan
Figure 15.2 Groundwater Levels (November 2018)
Figure 15.3 Groundwater Levels (November 2019)
Figure 15.4 Site Investigation Results Plan
- Figure 16.1 Hydrological Setting
Figure 16.2 Flood Map for Planning
Figure 16.3 Flood Defence Condition Grade
Figure 16.4 Flood Defence Standard of Protection
Figure 16.5 SFRA Modelled Flood Defence Breach Locations
Figure 16.6 Peak Flood Defence Breach Depth – Current Day 1 in 200 Year Event (2016) With Barriers
Figure 16.7 Peak Flood Defence Breach Depth – Current Day 1 in 200 Year Event (2016) Without Barriers
Figure 16.8 Peak Flood Defence Breach Depth – Future 1 in 200 Year Event (2116) With Barriers
Figure 16.9 Peak Flood Defence Breach Depth – Future 1 in 200 Year Event (2116) Without Barriers
Figure 16.10 Peak Flood Defence Breach Depth – Current Day 1 in 1,000 Year Event (2016) With Barriers
Figure 16.11 Peak Flood Defence Breach Depth – Current Day 1 in 1,000 Year Event (2016) Without Barriers
Figure 16.12 Peak Flood Defence Breach Depth – Future 1 in 1,000 Year Event (2116) With Barriers
Figure 16.13 Peak Flood Defence Breach Depth – Future 1 in 1,000 Year Event (2116) Without Barriers
Figure 16.14 Historic Flood Outlines
- Figure 17.1 Site location plan
Figure 17.2 Landscape Related Designation Map
Figure 17.3 Extract of Castle Point District Council Policy Map, Adopted 1998
Figure 17.4 Extract of Castle Point District Council Emerging Policy Map 2019
Figure 17.5 Extract of Natural Landscape Character Map Area 81, Natural England
Figure 17.6 Extract of Landscape Character Area LCA G3 – South Essex Coastal Towns by CBA
Figure 17.7 Extract of Landscape Character Area LCA F1 – Thames Estuary By CBA 2003
Figure 17.8 Extract of Landscape Character Area in Kent by Jacob Babbie October 2004
Figure 17.9 Extract of Green Belt Landscape Assessment for Castle Point Borough Council September 2010
Figure 17.10 Extract of Historic Environment Area Study Map Essex County Council 2007
Figure 17.11 Topography Plan of the Study Area
Figure 17.12 Land Cover of the Study Area
Figure 17.13 Public Rights of Way Map
Figure 17.14 Local Level Landscape Character Area
Figure 17.15 Landscape Feature Map
Figure 17.16 Zone of Theoretical Visibility for the 29m Height Proposed Tanks
Figure 17.17 Internal Site Photographic Viewpoint Location Plan
Figure 17.18 Plan Showing the Local Key Representative Viewpoints
Figure 17.19 Plan Showing the Middle Distance Key Representative Viewpoints
Figure 17.20 Plan Showing the Long Distance Key Representative Viewpoints
- Figure 18.1 Study Area
Figure 18.2 Night Blight Mapping in the Vicinity of the Oikos Facility
Figure 18.3 Indicative Light Spill (High Tide) (Fog Lighting On)
- Figure 19.1 Site location plan

- Figure 19.2 Borehole Locations
- Figure 19.3 Previous Archaeological Works
- Figure 19.4 Archaeological Features (Prehistoric to Post-medieval)
- Figure 19.5 Modern and Unknown Archaeological Features
- Figure 19.6 Site location on Historic Maps (1777 to 1872-6)
- Figure 19.7 Site location on Historic Maps (1905 to 1967)
- Figure 19.8 Site location on Historic Maps (1976 to 1999)
- Figure 19.9 Designated Heritage Assets

- Figure 21.1 HSE Consultation Zones

- Figure 22.1 Major Developments and Marine Licence Activities / Developments (Within 5km)
- Figure 22.2 Other Non-major Development (Within 1km)