The Great Grid Upgrade

Sea Link

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Volume 6: Environmental Statement

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Kent Onshore Intra-Project Cumulative Effects Screening Tables

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1. Kent Screening Tables

Table 1.1 Landscape element receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
As effects have only been identified on this receptor from one topic (Landscape and Visual), there is no potential for an intra-project effect.			

Table 1.2 Residential receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction, maintenance, operation and decommissioning and so there is a potential for an intra-project effect during these phases.			
Nearby residential properties in proximity to Viewpoints 5, 9, 11, 12 and 13	Chapter 1: Landscape and Visual	**Construction, Operation and maintenance and Decommissioning:** Adverse impact on visual amenity for residents.	**Negligible (Not Significant)** to **Moderate (Significant)**
Human receptors within 250 m of the Order Limits including Great Oaks Small School and residential properties in Minster and Richborough.	Chapter 8: Air Quality	**Construction and Decommissioning:** Construction dust arising from trackout (transportation of dust and dirt onto the public road network), demolition, earthworks and construction activities.	**Negligible (Not Significant)**
Human receptors within 200 m of the construction vehicle routes.	Chapter 8: Air Quality	**Construction and Decommissioning:** Construction vehicle emissions. **Operation and Maintenance:** Operational vehicle emissions	**Negligible (Not Significant)**
Human receptors within 200 m of the construction compounds.	Chapter 8: Air Quality	**Construction and Decommissioning:** NRMM emissions	**Negligible (Not Significant)**
Residential receptors: R_18573 R_1895 R_8335 R_11056 R_18600	Chapter 9: Noise and Vibration	**Construction and Decommissioning:** Construction noise from access construction	**Minor adverse (Not Significant)**

Receptor	Relevant Topic	Effects	Residual Significance of Effects
Residential receptors	Chapter 9: Noise and Vibration	**Operation and Maintenance**: Operational noise from proposed Minster Substation and Minster Converter Station. Noise from maintenance activities likely to be similar or no worse than those during construction. **Decommissioning**: Noise from maintenance activities likely to be similar or no worse than those during construction.	**Negligible (Not Significant)**

Table 1.3 Designated/non-designated heritage assets receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified during construction and operation and so there is a potential for an intra-project effect during this phase.			
Viewing tower within Richborough Fort (viewpoint 8)	Chapter 1: Landscape and Visual	**Construction, Operation and maintenance and Decommissioning:** An adverse impact on visual amenity from the viewing tower within Richborough Fort.	**Minor adverse (not significant)**
Richborough castle (NHLE 1363256) Scheduled Monument and Grade I Listed Building	Chapter 3: Cultural Heritage	**Operation and maintenance:** An adverse impact on the setting of the scheduled monument during the Operational phase.	**Minor adverse (not significant)**
A Saxon Shore fort, Roman port and associated remains at Richborough (NHLE 1014642) – Scheduled monument	Chapter 3: Cultural Heritage	**Operation and maintenance:** An adverse impact on the setting of Richborough fort during the Operational phase.	**Minor adverse (not significant)**

Table 1.4 Designated and non-designated sites – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified during construction, operation and decommissioning and so there is a potential for an intra-project effect during this phase.			
Sandwich Bay to Hacklinge Marshes Site of Special Scientific Interest (SSSI). Thanet Coast and Sandwich Bay Special Protection Area (SPA). Sandwich Bay Special Area of Conservation (SAC). Thanet Coast and Sandwich Bay Ramsar.	Chapter 2: Ecology and Biodiversity	**Construction and Decommissioning:** Direct loss of designated sites, disturbance, pollution (spillages and dust) and air quality impacts.	Varies from **Negligible (Not Significant)** to **Minor adverse (Not Significant)** during construction and decommissioning.
	Chapter 2: Ecology and Biodiversity	**Operation and maintenance:** Direct loss of designated sites, disturbance, pollution (spillages and dust), collision risk to birds, and air quality impacts.	**Negligible (Not Significant)**
	Chapter 8: Air Quality	**Construction and Decommissioning:** Dust arising from trackout (transportation of dust and dirt onto the public road network), demolition, earthworks and construction activities which may impact upon soils and ecological receptors.	**Negligible (Not Significant)**
	Chapter 8: Air Quality	**Operation and maintenance:** Substation and Converter Station back-up generator emissions.	**Negligible (Not Significant)**

Receptor	Relevant Topic	Effects	Residual Significance of Effects
Ash Level and South Richborough Pasture Local Wildlife Site	Chapter 2: Ecology and Biodiversity	**Construction, Operation and Maintenance and Decommissioning:** Habitat loss, but Enhancement of riparian habitat along River Stour and localised introduction of *Azolla* weevil to control invasive *Azolla* fern.	**Minor beneficial (Not Significant)**
Non-statutory Site TH12 (Woods & Grassland, Minster Marshes)	Chapter 2: Ecology and Biodiversity	**Construction, Operation and Maintenance and Decommissioning**: Loss of vegetation.	**Minor adverse (Not Significant)**

Table 1.5 Ecological receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction, maintenance, operation and decommissioning and so there is a potential for an intra-project effect during these phases.			
Ecological receptors including habitats, birds, dormouse badger, bats, reptiles, riparian mammals, terrestrial invertebrates, invasive species, fish.	Chapter 2: Ecology and Biodiversity	**Construction and Decommissioning:** Direct loss (temporary or permanent) of habitats for several fauna. Habitat creation as part of Minster Converter Station and Substation proposals. Pollution in the form of spillages and dust. Spead of invasive species. Killing and injury of reptiles and riparian mammals. Disturbance of birds and other fauna. Loss of habitat connectivity and passages for badgers, fish, reptiles riparian mammals. Disturbance to fish through direct illumination from artificial light.	**Moderate beneficial (Significant)** to **Negligible (Not Significant)** during Construction and Decommissioning.
Ecological receptors including habitats, birds, dormouse badger, bats, reptiles, riparian mammals, terrestrial invertebrates, invasive species, fish.	Chapter 2: Ecology and Biodiversity	**Operation and Maintenance:** Direct loss (temporary or permanent) of habitats for several fauna. Habitat creation as part of Minster Converter Station and Substation proposals.	**Moderate beneficial (Significant)** to **Negligible (Not Significant)** during operation and maintenance.

Receptor	Relevant Topic	Effects	Residual Significance of Effects
		Disturbance and displacement for birds and bats. Loss of habitat connectivity and passages for riparian mammals and fish. Pollution in the form of spillages.	
Ecological receptors within 200 m of the construction vehicle routes.	Chapter 8: Air Quality	**Construction and Decommissioning:** Construction vehicle emissions. **Operation and Maintenance:** Operational vehicle emissions	**Negligible (Not Significant)**
Ecological receptors within 200 m of the construction compounds.	Chapter 8: Air Quality	**Construction and Decommissioning:** NRMM emissions	**Negligible (Not Significant)**

Table 1.6 Water resources (existing abstractions and discharges) – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction and decommissioning and so there is a potential for an intra-project effect during these phases.			
Water resources (existing abstractions and discharges)	Chapter 4: Water Environment	**Construction and Decommissioning:** Temporary deterioration of water quality could also have indirect effects in terms of detriment to existing abstraction and discharge licence holders due to receiving/supporting watercourses being degraded.	**Negligible to Minor adverse (Not Significant)**
Groundwater abstractions	Chapter 5: Geology and Hydrogeology	**Construction and decommissioning**: The mobilisation of existing contamination within groundwater.	**Negligible (Not Significant)**
Aquifer bodies	Chapter 5: Geology and Hydrogeology	**Construction and decommissioning**: Mixing of aquifer bodies due to the connection of aquifer units at	**Negligible (Not Significant)**

Receptor	Relevant Topic	Effects	Residual Significance of Effects
		trenchless crossings.	
Groundwater	Chapter 5: Geology and Hydrogeology	**Construction and decommissioning:** Changes to groundwater levels, quality and groundwater flow as a result of dewatering. **Operation and Maintenance:** Changes to groundwater levels and/or recharge rates from the introduction of impermeable surfaces.	**Negligible (Not Significant)**

Table 1.7 Watercourses and waterbodies – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction and decommissioning and so there is a potential for an intra-project effect during these phases.			
Habitats, particularly River Stour, Minster Stream, wetland scrapes north of River Stour and other ditches	Chapter 2: Ecology and Biodiversity	**Construction, Operation and maintenance and decommissioning:** Habitat loss, but habitat creation as part of Minster Converter Station and Substation proposals.	**Moderate beneficial (Significant)**
		Construction, Operation and maintenance and decommissioning: Pollution (spillages and dust)	**Negligible (Not Significant)**
Aquatic macrophytes and macroinvertebrates	Chapter 2: Ecology and Biodiversity	**Construction and Decommissioning:** Habitat loss, but wetland creation as part of Minster Converter Station and Substation proposals.	**Minor adverse (Not significant)** in the medium-term but **Moderate beneficial (Significant) in the long-term** during construction and decommissioning.
		Shading and pollution impacts.	**Negligible (Not significant)**

Receptor	Relevant Topic	Effects	Residual Significance of Effects
Aquatic macrophytes and macroinvertebrates	Chapter 2: Ecology and Biodiversity	**Operation and maintenance:** Habitat loss, but with the Translocation of macroinvertebrates (into nearby watercourses or balancing/attenuation ponds) in advance of infill.	**Minor adverse (Not significant)**
River Stour and watercourses in the Stour Marshes including Minster Stream, Stoneless Stream and Richborough Stream	Chapter 4: Water Environment	**Construction and Decommissioning:** Pollution by silt, oils, hydrocarbons and other construction materials at watercourse crossings. Pollution risks from trenchless watercourse crossings for cable route (bentonite breakout and water consumption). Temporary physical disturbance of channels and banks and change to flow regimes at watercourse crossings for access and the cable route. Temporary deterioration of water quality due to project discharges e.g. from dewatering or work site runoff. Impacts to water quality due to falling debris from scaffolding.	**Minor adverse** to **Negligible** (**Not Significant)**
Ordinary watercourses, land drains and existing land uses	Chapter 4: Water Environment	**Construction and Decommissioning:** Pollution risks (silt and bentonite breakout) from trenchless watercourse crossings for cable route.	**Negligible to Minor adverse (Not Significant)**

Receptor	Relevant Topic	Effects	Residual Significance of Effects
		Increased runoff rates and volumes, and impact on land drainage regime due to soil stripping, earthworks and excavations. Pollution risks from refuelling site vehicles. Impacts on the hydromorphology of the watercourses due to temporary culvert installation.	
Floodplains, existing land uses and infrastructure	Chapter 4: Water Environment	**Construction and Decommissioning:** Temporary loss of floodplain storage, impediment of floodplain flows, and increased flood risk e.g. due to spoil storage in floodplain.	**Minor adverse (Not Significant)**

Table 1.8 Flood risk receptors– Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
As effects have only been identified on this receptor from one topic (Chapter 4: Water Environment), there is no potential for an intra-project effect.			

Table 1.9 Soil – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
As effects have only been identified on this receptor from one topic (Chapter 6: Agricultural and Soils), there is no potential for an intra-project effect.			

Table 1.10 Public Rights of Way – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction, maintenance, operation and decommissioning and so there is a potential for an intra-project effect during these phases.			
PRoW Users	Chapter 1: Landscape and Visuals	**Construction, Operation and maintenance and Decommissioning:** An adverse impact on visual amenity for public rights of way users.	**Negligible adverse (not significant)** to **Moderate adverse (Significant)**
PRoW	Chapter 7: Traffic and Transport	**Construction and Decommissioning:** Severance Pedestrian Delay Non-Motorised User Amenity Fear and Intimidation PRoW Diversions and Closures.	**Negligible to Minor adverse (Not Significant)**
		Operation and Maintenance: PRoW Diversions and Closures.	**Negligible (Not Significant)**

Receptor	Relevant Topic	Effects	Residual Significance of Effects
PRoW	Chapter 10: Socio-Economics, Recreation and Tourism	**Construction, Operation, Maintenance and Decommissioning**: PRoW Diversions and Closures, reduced local recreational walking/cycle routes.	**Negligible to Minor adverse (Not Significant)**

Table 1.11 Transport receptors – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction, maintenance, operation and decommissioning and so there is a potential for an intra-project effect during these phases.			
Highway network (road links and junctions)	Chapter 7: Traffic and Transport	**Construction and Decommissioning:** Severance Pedestrian Delay Non- Motorised user Amenity Fear and Intimidation Driver Delay Road Safety Hazardous/ Large Loads	**Negligible to Minor adverse (Not Significant)**
Walking and cycling routes	Chapter 7: Traffic and Transport	**Construction and Decommissioning:** Severance Pedestrian Delay Non-Motorised User Amenity Fear & Intimidation PRoW Diversions and Closures **Operation and Maintenance:** PRoW Diversions and Closures	**Negligible to Minor adverse (Not Significant)** **Negligible (Not Significant)**
Cyclists	Chapter 1: Landscape and Visual	**Construction, Operation and maintenance and Decommissioning:** An adverse impact on visual amenity for cyclists.	**Negligible adverse (not significant) to Moderate adverse (Significant)**

Receptor	Relevant Topic	Effects	Residual Significance of Effects
Road/Rail users	Chapter 1: Landscape and Visual	**Construction, Operation and maintenance and Decommissioning:** An adverse impact on visual amenity for drivers using major A roads, B roads, the local highway network and passengers on the railway route between Sandwich and Minster and between Ramsgate and Canterbury.	**Negligible adverse (not significant) to Moderate adverse (Significant)**
Highway network (road links and junctions)	Chapter 9: Noise and Vibration	**Operation and Maintenance**: Operational noise from proposed Minster Substation and Minster Converter Station. Noise from maintenance activities likely to be similar or no worse than those during construction. **Decommissioning**: Noise from maintenance activities likely to be similar or no worse than those during construction.	**Negligible (Not Significant)**

Table 1.12 Communities – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction phase and so there is a potential for an intra-project effect during these phases.			
Recreational Users	Chapter 1: Landscape and Visual	**Construction, Operation and maintenance and Decommissioning:** An adverse impact on visual amenity for recreational users using or visiting Pegwell Bay Country Park, Prince's Golf Club, Stoneless Golf Centre, St Augustine's Golf Club and Richborough Roman Fort.	**Negligible adverse (not significant)** to **Minor adverse (not significant)**
Communities	Chapter 10: Socio-Economics, Recreation and Tourism	**Construction:** The direct, indirect and induced employment generated from the construction of the Kent Onshore Scheme.	**Minor beneficial (Not significant)** **Negligible adverse (not significant)** **Minor beneficial (Not significant)**

Receptor	Relevant Topic	Effects	Residual Significance of Effects
		Construction: Decreased availability of local accommodation facilities	
		Construction: Increase in GVA generation	

Table 1.13 Human Health – Summary of environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects
More than one type of effect is identified for construction, maintenance, operation and decommissioning and so there is a potential for an intra-project effect during these phases.			
Human receptors	Chapter 5: Geology and Hydrogeology	**Construction and Decommissioning:** Exposure to existing potential contamination through ground disturbance during construction and decommissioning activities. **Construction, Operation, Maintenance and Decommissioning:** Ingress and accumulation of ground gas in buildings/confined spaces/trenches, resulting in explosion/asphyxiation/exposure.	**Negligible (Not Significant)**
	Chapter 8: Air Quality	**Construction and Decommissioning:** Construction dust arising from trackout (transportation of dust and dirt onto the public road network), earthworks and construction activities which may impact upon human health.	**Negligible (Not Significant)**
	Chapter 10 Socio-Economics, Recreation and Tourism	**Construction and decommissioning:** Reduced access to community facilities, open spaces, tourism attractions as well as amenity impacts and a	**Minor adverse (Not significant)**

Receptor	Relevant Topic	Effects	Residual Significance of Effects
		hindrance to others development land.	
	Chapter 11: Health and Wellbeing	**Construction, Operation and Maintenance and decommissioning:** Reduced access to healthcare other social infrastructure, open spaces and leisure activities for the local population. Increased exposure to dust, particulate matter, noise and vibration. Reduced means of active travel (cycling/walking) and disruptions to community connectivity. Changes to landscape and visual amenity. **Construction and Decommissioning:** Beneficial employment, training and income opportunities from working on the Proposed Project.	**Negligible (Not Significant) to Minor adverse (not significant)** **Minor beneficial (not significant)**

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