

# **The Sizewell C Project**

# 6.11 Volume 10 Project-Wide, Cumulative and 6.11 Transboundary Effects Chapter 2 Inter-relationship Effects Appendix 2A Interrelationship effects on human and other receptors

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# VOLUME 10, CHAPTER 2, APPENDIX 2A: LOCATION OF INTER-RELATIONSHIP EFFECTS ASSESSMENT

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Volume 10 Appendix 2A Location of the Inter-Relationship Effects Assessment |



# Contents

### **Plates**

None Provided.

# **Figures**

None Provided.

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#### Table 2A.1: Location of inter-relationship effects assessments

Receptor	Description
Quarries/finite sources of virgin materials	The assessment of effects on quarries/finite sources of virgin material is presented within the Conventional Waste Management chapter (Volume 2, Chapter 8 of the ES) which considers the effects associated with reduction in availability of finite sources of virgin materials. The assessment of effects on quarries/finite sources of virgin material presented within the Geology and Land Quality chapters (Volume 2, Chapter 18 and Volumes 3 to 9, Chapter 11 of the ES) considers the potential effects of loss, damage or sterilisation of mineral resources through contamination risk. There is not considered to be any further inter-relationships between these two assessments and no inter-relationship effects beyond those assessed within these chapters are likely.
Human receptors (Population)	The assessment presented within the socio-economics assessment (Volume 2, Chapter of the ES) considers the effects of population change and dynamics. The assessment presented in the Health and Wellbeing assessments (Volume 2, Chapter 28 of the ES) consider the potential effects of changes in air quality, noise exposure and socio-economic factors on health. The assessment also considers quality of life and wellbeing. There is not considered to be any further inter-relationships between these assessments than those assessed in the Health and Wellbeing assessments (Volume 2, Chapter 28 of the ES).
Transport network	The assessment presented in the transport chapter ( <b>Volume 2, Chapter 10</b> of the <b>ES</b> ) considers the potential effects associated with severance, pedestrian delay, amenity, fear and intimidation, driver delay, and accidents and safety. The assessment presented in the landscape and visual assessments ( <b>Volume 2, Chapter 13</b> and <b>Volumes 3</b> to <b>9, Chapter 6</b> of the <b>ES</b> ) considers the visual effects on users of the transport network in proximity to Sizewell C Project sites. No further inter-relationship effects beyond those assessed within these chapters are likely.
Residential receptors	The assessments presented within the noise and vibration assessments (Volume 2, Chapter 11 and Volumes 3 to 9, Chapter 4 of the ES) consider noise and vibration effects at representative receptor locations. The assessments presented within air quality assessments (Volume 2, Chapter 12 and Volumes 3 to 9, Chapter 5 of the ES) consider air quality effects at representative receptor locations. The assessments presented within landscape and visual assessments (Volume 2, Chapter 12, Chapter 13 and Volumes 3 to 9, Chapter 6 of the ES) consider visual effects within defined visual receptor groups, a zone of theoretical visibility and a zone of visual influence. The potential inter-relationship effects of these assessments on residential receptors are not considered further within any technical assessments in Volumes 2 to 9 of the ES.
Commercial facilities	The assessments presented within the noise and vibration assessments ( <b>Volume 2, Chapter 11</b> and <b>Volumes 3</b> to <b>9, Chapter 4</b> of the <b>ES</b> ) consider noise and vibration effects at representative receptor locations.

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Receptor	Description
	The assessments presented within air quality assessments ( <b>Volume 2, Chapter 12</b> and <b>Volumes 3</b> to <b>9, Chapter 5</b> of the <b>ES</b> ) consider air quality effects at representative receptor locations.
	The assessments presented within landscape and visual assessments ( <b>Volume 2</b> , <b>Chapter 13</b> and <b>Volumes 3</b> to <b>9</b> , <b>Chapter 6</b> of the <b>ES</b> ) consider visual effects within defined visual receptor groups, a zone of theoretical visibility and a zone of visual influence.
	The potential inter-relationship effects of these assessments on commercial facilities are not considered further within any technical assessments in <b>Volumes 2</b> to <b>9</b> of the <b>ES</b> .
	The assessments presented within the noise and vibration assessments ( <b>Volume 2, Chapter 11</b> and <b>Volumes 3</b> to <b>9, Chapter 4</b> of the <b>ES</b> ) consider noise and vibration effects at representative receptor locations.
Community facilities (Sports	The assessments presented within air quality assessments ( <b>Volume 2, Chapter 12</b> and <b>Volumes 3</b> to <b>9, Chapter 5</b> of the <b>ES</b> ) consider air quality effects at representative receptor locations.
and Social Club / Campsite)	The assessments presented within landscape and visual assessments ( <b>Volume 2</b> , <b>Chapter 13</b> and <b>Volumes 3</b> to <b>9</b> , <b>Chapter 6</b> of the <b>ES</b> ) consider visual effects within defined visual receptor groups, a zone of theoretical visibility and a zone of visual influence.
	The potential inter-relationship effects of these assessments on community facilities are not considered further within any technical assessments in <b>Volumes 2</b> to <b>9</b> of the <b>ES</b> .
	The assessments presented within the noise and vibration assessments ( <b>Volume 2, Chapter 11</b> and <b>Volumes 3 to 9</b> , <b>Chapter 4</b> of the <b>ES</b> ) consider noise and vibration effects at representative receptor locations.
	The assessments presented within air quality assessments ( <b>Volume 2, Chapter 12</b> and <b>Volumes 3 to 9</b> , <b>Chapter 5</b> of the <b>ES</b> ) consider air quality effects at representative receptor locations.
Schools	The assessments presented within landscape and visual assessments ( <b>Volume 2</b> , <b>Chapter 13</b> and <b>Volumes 3</b> to <b>9</b> , <b>Chapter 6</b> of the <b>ES</b> ) consider visual effects within defined visual receptor groups, a zone of theoretical visibility and a zone of visual influence.
	The potential inter-relationship effects of these assessments on schools are not considered further within any technical assessments in Volumes 2 to 9 of the ES
Visual Receptor	The effects on visual receptors areas are considered within the landscape and visual assessments ( <b>Volume 2, Chapter 13</b> and <b>Volumes 3</b> to <b>9, Chapter 6</b> of the <b>ES</b> ).
Areas	No further inter-relationship effects beyond those assessed within this chapter are likely.
Important Ecological	The terrestrial ecology assessments ( <b>Volume 2, Chapter 14</b> and <b>Volumes 3</b> to <b>9, Chapter 6</b> of the <b>ES</b> ) presents the assessment of effects on terrestrial habitats and species.
Features	The marine ecology assessment presents ( <b>Volume 2, Chapter 22</b> of the <b>ES</b> ) the assessment of inter-relationship effects on marine habitats and species.

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Receptor	Description
	The Soils and Agriculture assessments (Volume 2, Chapter 17 and Volumes 3 to 9, Chapter 10 of the ES) only considered the potential for the spread of invasive weeds and species and the associated effects on surrounding land uses. No further inter-relationship effects beyond those assessed within these chapters
	are likely. The terrestrial ecology assessments ( <b>Volume 2, Chapter 14</b> and <b>Volumes 3</b> to <b>9, Chapter 6</b> of the <b>ES</b> ) presents the assessment of inter-relationship effects on statutory designated sites within the terrestrial environment.
Statutory designated site	The coastal geomorphology and hydrodynamics assessment ( <b>Volume 2</b> , <b>Chapter 22</b> of the <b>ES</b> ) presents the assessment of inter-relationship effects on non-statutory designated sites.
	No further inter-relationship effects beyond those assessed within these chapters are likely.
	The terrestrial ecology assessments ( <b>Volume 2, Chapter 14</b> and <b>Volumes 3</b> to <b>9, Chapter 6</b> of the <b>ES</b> ) presents the assessment of inter-relationship effects on non-statutory designated sites.
Non-statutory designated sites	The coastal geomorphology and hydrodynamics assessment ( <b>Volume 2</b> , <b>Chapter 22</b> of the <b>ES</b> ) presents the assessment of inter-relationship effects on non-statutory designated sites.
	No further inter-relationship effects beyond those assessed within these chapters are likely.
Public Rights of Way	The amenity and recreation assessments ( <b>Volume 2, Chapter 15 and Volume 3</b> to <b>9, Chapter 8</b> of the <b>ES</b> ) consider the potential inter-relationship effects on public rights of way. No further inter-relationship effects beyond those assessed within these chapters are likely.
Dark Sky Discovery Sites	The amenity and recreation assessment ( <b>Volume 2, Chapter 15</b> of the <b>ES</b> ) considers the potential inter-relationship effects on dark sky discovery sites. No further inter-relationship effects beyond those assessed within this chapter are likely.
Amenity and Recreation Receptor Groups	The amenity and recreation assessments ( <b>Volume 2, Chapter 15 and Volume 3</b> to <b>9, Chapter 8</b> of the <b>ES</b> ) consider the potential inter-relationship effects on amenity and recreation receptor groups. No further inter-relationship effects beyond those assessed within these chapters are likely.
Long Distance Linear Recreational Routes	The amenity and recreation assessments ( <b>Volume 2, Chapter 15 and Volume 3</b> to <b>9, Chapter 8</b> of the <b>ES</b> ) consider the potential inter-relationship effects on long distance linear recreational routes. No further inter-relationship effects beyond those assessed within these chapters are likely.
Designated heritage assets	The Terrestrial Historic environment assessments ( <b>Volume 2, Chapter 16</b> and <b>Volumes 3</b> to <b>9, Chapter 9</b> of the <b>ES</b> ) consider the potential inter-relationship effects on designated heritage assets. No further inter-relationship effects beyond those assessed within these chapters are likely.
Non-designated heritage assets	The Terrestrial Historic environment assessments ( <b>Volume 2, Chapter 16</b> and <b>Volumes 3</b> to <b>9, Chapter 9</b> of the <b>ES</b> ) consider the potential inter-relationship effects on non-designated heritage assets. No further inter-relationship effects beyond those assessed within these chapters are likely.

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Receptor	Description
Archaeology	The Terrestrial Historic environment assessments (Volume 2, Chapter 16 and Volumes 3 to 9, Chapter 9 of the ES) consider the potential inter-relationship effects on archaeology within the terrestrial environment. The Marine Historic environment assessments (Volume 2, Chapter 23 of the ES) consider the potential inter-relationship effects on archaeology within the marine environment. No further inter-relationship effects beyond those assessed within these chapters are likely.
Soil resources (Best and Most Versatile Land)	The soils and agriculture assessments (Volume 2, Chapter 17 and Volumes 3 to 9, Chapter 10 of the ES) consider the potential inter-relationship effects on loss of resource. The geology and land quality assessments (Volume 2, Chapter 18 and Volumes 3 to 9, Chapter 11 of the ES) consider the potential inter-relationship effects on contamination of resource. No further inter-relationship effects beyond those assessed within these chapters are likely.
Agricultural Operations / Land holdings	The soils and agriculture assessments ( <b>Volume 2, Chapter 17</b> and <b>Volumes 3</b> to <b>9, Chapter 10</b> of the <b>ES</b> ) consider the potential inter-relationship effects on agricultural operations/land holdings. No further inter-relationship effects beyond those assessed within these chapters are likely.
Geology	The Geology and Land quality assessments (Volume 2, Chapter 18 and Volumes 3 to 9, Chapter 11 of the ES) consider the potential inter-relationship effects on geology. No further inter-relationship effects beyond those assessed within these chapters are likely.
Livestock	The Geology and Land quality assessments ( <b>Volume 2, Chapter 18</b> and <b>Volumes 3</b> to <b>9, Chapter 11</b> of the <b>ES</b> ) consider the potential inter-relationship effects on livestock. No further inter-relationship effects beyond those assessed within these chapters are likely.
Groundwater	The groundwater and surface water assessments ( <b>Volume 2, Chapter 19</b> and <b>Volumes 3</b> to <b>9, Chapter 12</b> of the <b>ES</b> ) consider the potential inter-relationship effects on groundwater. No further inter-relationship effects beyond those assessed within these chapters are likely.
Surface Water	The groundwater and surface water assessments ( <b>Volume 2, Chapter 19</b> and <b>Volumes 3</b> to <b>9, Chapter 12</b> of the <b>ES</b> ) consider the potential inter-relationship effects on surface water. No further inter-relationship effects beyond those assessed within these chapters are likely.
Existing Buildings (property)	The Geology and Land quality assessments ( <b>Volume 2, Chapter 18</b> and <b>Volumes 3 to 9, Chapter 11</b> of the <b>ES</b> ) consider the potential inter-relationship effects on existing buildings (property). No further inter-relationship effects beyond those assessed within these chapters are likely.
Marine water quality and sediment	The marine water quality assessment ( <b>Volume 2, Chapter 21</b> of the <b>ES</b> ) presents and assessment of effects on marine water quality and sediment. No further inter-relationship effects beyond those assessed within this chapter are likely.

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Receptor	Description
Fisheries	The marine ecology and fisheries assessment presented in <b>Volume 2</b> , <b>Chapter 22</b> of the <b>ES</b> considers the effects on commercial and recreation fisheries. No further inter-relationship effects beyond those assessed within this chapter are likely.
Passing, fishing & recreational	The marine navigation assessment ( <b>Volume 2, Chapter 24</b> of the <b>ES</b> ) considers the potential disruption to existing activities.
vessels	The amenity and recreation assessment for the main development site ( <b>Volume 2</b> , <b>Chapter 15</b> of the <b>ES</b> ) considers the effects on users of offshore recreational resources.
	There is not considered to be any further inter-relationships between these two assessments and no inter-relationship effects beyond those assessed within these chapters are likely.
Non-human biota	The radiological effects assessment ( <b>Volume 2, Chapter 25</b> of the <b>ES</b> ) considers effects associated with the discharge of low levels of radioactive gaseous and aqueous effluents on terrestrial, marine, coastal, freshwater and marshland habitats.

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# VOLUME 10, CHAPTER 2, APPENDIX 2B: ASSESSMENT OF INTER-RELATIONSHIP EFFECTS ON RESIDENTIAL PROPERTIES, COMMERCIAL FACILITIES, COMMUNITY FACILITIES AND SCHOOLS

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Volume 10 Appendix 2B Assessment of Inter-relationship Effects |



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Table 2B.1: Potential for inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the main development site

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Poten
Abbey Cottage.	Construction			
Abbey Cottage. Figure 1.7 – main development site 1. <u>Noise and Vibration</u> - Receptor 1. <u>Air Quality</u> – Receptor LE28. <u>Landscape and Visual</u> – Receptor group 14.	Construction Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 and Phase 5 (average day) (Negligible, not significant) Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 and Phase 5 (average day) (Negligible, not significant) Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Moderate adverse, significant). Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant). Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant). Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant). Construction vibration when vibratory compaction is occurring in Phase 1 and 2 and during preparation of LEEIE (Minor adverse, not significant). Construction vibration during breaking out and soil spreading during Phase 5 (Negligible, not significant). Construction road traffic on surrounding network	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant). Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).	Views of construction (Major-moderate, adverse, significant).	There vibratio Abbey increas additio

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# the main development site Intial for combined effect.

re is high potential for combined effects arising from noise and ation, air quality and views on construction on the receptor ey Cottage. Combined, these effects are likely to lead to an eased sense of disturbance during construction and an itional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Poten
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Moderate, adverse, not</b> significant).	There vibrati unlike at Ab signifie
	Operational road traffic noise during 2034 (Negligible, not significant)			Signific
<u>1 Upper Abbey</u>	Construction			
<u>Farmhouse.</u> <u>Figure 1.7</u> – main development site 4.	Not assessed during construction due to the nature of the receptor	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction ( <b>Major -moderate, adverse,</b> significant).	There and v Farmh
<u>Noise and Vibration</u> – No corresponding residential receptor.		Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		increa: additic
	Operation			
<u>Air Quality</u> – Receptors LE42.	Noise during the normal operation of the power station ( <b>negligible, not significant</b> ).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Moderate, adverse, not significant).	There Upper inter-re
Landscape and Visual – Receptor group 14.	Noise during power station operation plus back generator testing (minor adverse, not significant).			
	Operational road traffic noise during 2034 (Negligible, not significant)			
<u>Upper Abbey</u> Farmhouse.	Construction			
<u>Figure 1.7</u> – main development site 3.	Not assessed during construction due to the nature of the receptor	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction ( <b>Major to moderate</b> , adverse, significant).	There and v Farmh increa
<u>Noise and Vibration</u> – No corresponding residential receptor.		Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		additio
	Operation			
<u>Air Quality</u> – LE42. <u>Landscape and Visual</u>	Noise during the normal operation of the power station ( <b>negligible, not significant</b> ).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Moderate, adverse, not significant).	There Abbey relatio
<ul> <li>Receptor group 14.</li> </ul>	Noise during power station operation plus back generator testing (minor adverse, not significant).			
	Operational road traffic noise during 2034 (Negligible, not significant)			
Lower Abbey Farm.	Construction			
<u>Figure 1.7</u> – main development site 5.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A ( <b>Moderate adverse, significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction ( <b>Major -moderate, adverse,</b> significant).	There and vi lead to at Lov additio

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#### ntial for combined effect.

re is low potential for combined effects from noise and ation, and views of construction. Combined, these effects are kely to lead to an increased sense of disturbance for receptor Abbey Cottage during the operation and so additional ificant adverse inter-relationship effect is unlikely.

re is high potential for combined effects arising from air quality views on construction on the receptor 1 Upper Abbey nhouse. Combined, these effects are likely to lead to an eased sense of disturbance during construction and an itional significant adverse inter-relationship effect is likely.

re is low potential for combined effects on the receptor 1 er Abbey Farmhouse and so no additional significant adverse r-relationship effect is likely during operation.

re is high potential for combined effects arising from air quality views on construction on the receptor Upper Abbey nhouse. Combined, these effects are likely to lead to an eased sense of disturbance during construction and an itional significant adverse inter-relationship effect is likely.

re is low potential for combined effects on the receptor Upper ey Farmhouse and so no additional significant adverse intertionship effect is likely during operation.

re is high potential for combined effects from noise, air quality views of construction. Combined, these effects are likely to to a slightly increased sense of disturbance for the receptor ower Abbey Farm during the construction phase and an itional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
<u>Noise and Vibration</u> – Receptor 2. <u>Air Quality</u> – Receptor LE25.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) ( <b>Minor adverse, not significant</b> ).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		
Landscape and Visual – Receptor group 14.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Moderate adverse, significant).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) ( <b>Negligible, not significant</b> ).			
	Construction vibration during phases 1, 2, 5 and during preparation of the LEEIE( <b>Negligible, not significant</b> ).			
	Construction road traffic on surrounding network (Negligible or minor, not significant) Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Moderate, adverse, not significant).	There vibratio unlikely at Low adverse
2 Upper Abbey	Construction		1	
<u>Farmhouse.</u> <u>Figure 1.7</u> – main development site 2.	Not assessed during construction due to the nature of the receptor.	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).		There is views of to a sli Upper a
Noise and Vibration – No corresponding residential receptor.		Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		additio
	Operation			

ntial for combined effect.

e is low potential for combined effects from noise and tion and views of construction. Combined, these effects are ely to lead to an increased sense of disturbance for receptors ower Abbey during operation and so additional significant erse inter-relationship effect is unlikely.

e is a high potential for combined effects from air quality and s of construction. Combined, these effects are likely to lead slightly increased sense of disturbance for receptors at 2 er Abbey Farmhouse during the construction phase and an ional significant adverse inter-relationship effect is likely.

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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potenti
<u>Air Quality</u> – Receptor LE48.	Noise during the normal operation of the power station (negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Major-moderate to moderate</b> , <b>adverse, significant</b> ).	There is Upper / inter-rel
Landscape and Visual – Receptor group 11.	Noise during power station operation plus back generator testing (minor adverse, not significant).			
	Operational road traffic noise during 2034 (Negligible, not significant)			
Abbey Road, Leiston.	Construction			
<u>Figure 1.7</u> – main development site 6.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A ( <b>Moderate</b>	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).		There i vibration effects
Noise and Vibration -	adverse, significant).	Exhaust emissions from additional road vehicle		disturba constru
Receptor 3. <u>Air Quality</u> – Receptor LE2. <u>Landscape and Visual</u>	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4, and Phase 5 (average day) ( <b>Negligible, not significant</b> ).	movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		relation
– Receptor group 16.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) ( <b>Moderate adverse, significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling. ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) ( <b>Negligible, not significant</b> ).			
	Construction Vibration during compaction work in Phases 1 and 2 and during preparation of LEEIE and during Phase 5 ( <b>Negligible, not significant</b> ).			
	Road traffic on surrounding network during 2023 (receptors within the 55db contours) ( <b>Moderate</b> adverse, significant).			
	Construction road traffic on surrounding network during 2028 ( <b>Negligible or minor, not significant</b> ).			

#### ntial for combined effect.

e is high potential for combined effects on receptors at 2 er Abbey Farmhouse and so additional significant adverse -relationship effects are likely during operation.

re is high potential for combined effects from noise and ation, air quality and views of construction. Combined, these cts are likely to lead to a slightly increased sense of irbance for receptor at Abbey Road, Leiston during the struction phase and an additional significant adverse interionship effect is likely.

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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Poten
	Operation			1
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Negligible, not significant</b> ).	There Road effect
Ash Wood Cottages.	Construction			-
Ash Wood Cottages. Figure 1.7 – main development site 7. <u>Noise and Vibration</u> – Receptor 4. <u>Air Quality</u> – Receptor LE25. <u>Landscape and Visual</u> – Receptor group 11.		Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant). Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).	Views of construction (Major to major-moderate, adverse, significant).	There vibrati effects recept and a likely.
	significant). Construction vibration during breaking out and soil spreading during Phase 5 (Negligible, not significant).			
	Construction road traffic on surrounding network (Negligible or minor, not significant).			
1	Operation			

#### ential for combined effect.

re is low potential for combined effects on receptors at Abbey d and so no additional significant adverse inter-relationship ct is likely during operation.

re is high potential for combined effects from noise and ation, air quality and views of construction. Combined, these cts are likely to lead to an increased sense of disturbance for eptors at Ash Wood Cottages during the construction phase an additional significant adverse inter-relationship effect is y.





Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	Noise during the normal operation of the power station and operation plus back generator testing (Low or negligible, not significant). Operational road traffic noise during 2034 (Negligible, not significant)	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Major-moderate to moderate,</b> adverse, significant).	There of Size slightly Cottag signific
Barley Rise.	Construction			
<u>Figure 1.7</u> – main development site 8.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).		There vibratio Combi
<u>Noise and Vibration</u> – Receptor 5. <u>Air Quality</u> – Receptor LE37.	Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		sense constru relatior
Landscape and Visual – Receptor group 19.	Construction noise during the day (0700-2300) as dictated by LEEIE during the early and later years Operations ( <b>Negligible, not significant</b> ).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day ( <b>Negligible, not significant</b> ).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) ( <b>Negligible, not significant</b> ).			
	Construction vibration during phases 1 and 2, and during preparation of the LEEIE and during Phase 5 ( <b>Negligible, not significant</b> ).			

#### ntial for combined effect.

re is high potential for combined effects from noise and views izewell C. Combined, these effects are likely to lead to a tly increased sense of disturbance for receptor at Ash Wood ages during the operational phase and an additional ificant adverse inter-relationship effect is likely.

re is low potential for combined effects from noise and ation, air quality and vibration and views of construction. hbined, these effects are unlikely to lead to an increased se of disturbance for receptor at Barley Rise during the struction phase and so additional significant adverse intertionship effect is unlikely.

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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Poten
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>Negligible or minor, not significant</b> ).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Moderate-slight, adverse, not significant).	There of Size increa the op relatio
Common Cottages.	Construction			Toluio
<u>Figure 1.7</u> – main development site 9. <u>Noise and Vibration</u> – Receptor 6. <u>Air Quality</u> – Receptor _E54.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During all construction Phases ( <b>Minor adverse, not significant</b> ). Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Minor</b> <b>adverse to negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).	Views of construction (Major to major-moderate, adverse, significant).	There vibration effects recept an add
andscape and Visual Receptor group 15.	Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) ( <b>Negligible, not significant</b> ).			
	Construction vibration during compaction work in Phases 1 and 2 and during preparation of LEEIE and during Phase 5 ( <b>Negligible, not significant</b> ).			
	Road traffic on surrounding network during 2023 (Moderate adverse, significant).			
	Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Major-moderate, adverse, significant).	There views a sligh Cottag
Crown Lodge.	Construction		I	signifi
<u>Figure 1.7</u> – main development site 11.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling ( <b>Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Moderate, adverse, not significant).	There vibrati effects disturb

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#### ential for combined effect.

re is low potential for combined effects from noise and views izewell C. Combined, these effects are unlikely to lead to an eased sense of disturbance for receptor at Barley Rise during operational phase and so additional significant adverse intertionship effect is unlikely.

re is high potential for combined effects from noise and ation, air quality and views of construction. Combined, these cts are likely to lead to an increased sense of disturbance for eptor at Common Cottages during the construction phase and additional significant adverse inter-relationship effect is likely.

re is a high potential for combined effects from noise and vs of Sizewell C. Combined, these effects are likely to lead to ghtly increased sense of disturbance for receptor at Common tages during the operational phase and so additional ificant adverse inter-relationship effect is likely.

re is low potential for combined effects from noise and ation, air quality and views of construction. Combined, these cts are unlikely to lead to a slightly increased sense of urbance for receptor at Crown Lodge during the construction



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potenti
Noise and Vibration – Receptor 7. Air Quality – Receptor	Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>negligible, not significant</b> ).		phase a effect is
LE38. Landscape and Visual	Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations ( <b>Negligible, not significant</b> ).			
<ul> <li>Receptor group 16.</li> </ul>	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) ( <b>Negligible, not significant</b> )			
	Construction vibration during compaction work in Phases 1 and 2 and during preparation of LEEIE ( <b>Minor adverse, not significant</b> ).			
	Construction vibration during breaking out and soil spreading during Phase 5 ( <b>Negligible, not significant</b> ).			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>Negligible or minor, not</b> <b>significant</b> ). Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Negligible, not significant</b> ).	There is Lodge a effect is
<u>Eastbridge</u>	Construction			
<u>Figure 1.7</u> – main development site 12. <u>Noise and Vibration</u> –	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Major to major-moderate, adverse, significant).	There is vibration effects disturba
Receptor 8.	Construction noise during the day (0700-2300) as dictated by main development site (including	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		phase a effect is

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ntial for combined effect.

e and so additional significant adverse inter-relationship t is unlikely.

e is low potential for combined effects on receptors at Crown je and so no additional significant adverse inter-relationship it is likely during operation.

e is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these its are likely to lead to a slightly increased sense of rbance for receptors at Eastbridge during the construction is and an additional significant adverse inter-relationship it is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
<u>Air Quality</u> – Receptor LE29. <u>Landscape</u> and Visual	activities on LEEIE) During Phase 1B/2, Phase 3 and 4, and Phase 5 (average day) ( <b>Negligible, not</b> <b>significant</b> ).			
– Receptor group 10.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction vibration during Phases 1, 2, 5 and during preparation of LEEIE ( <b>Negligible, not significant</b> ).			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>Negligible or minor adverse, not significant</b> ).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Major-moderate to moderate</b> , adverse, significant).	views o lead to Eastbrie
Grimseys Lane.	Construction		<u> </u>	significa
<u>Figure 1.7</u> – main development site 13.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).		There vibratio effects
<u>Noise and Vibration</u> – Receptor 9. <u>Air Quality</u> – Receptor	Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE ( <b>Minor adverse, not significant</b> ).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		for rece so ado unlikely
LE36. Landscape and Visual – Receptor group 19.	Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations ( <b>Minor adverse, not significant</b> ).			

ntial for combined effect.

e is high potential for combined effects arising from noise and s of the operational site. Combined, these effects are likely to to an increased sense of disturbance for receptors at bridge during the operational phase and so an additional ficant adverse inter-relationship effect is likely.

e is low potential for combined effects from noise and tion, air quality and views of construction. Combined, these ts are unlikely to lead to an increased sense of disturbance eceptors at Grimseys Lane during the construction phase and additional significant adverse inter-relationship effect is ely.

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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potenti
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day ( <b>Negligible, not significant</b> ).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction vibration during Phases 1, 2 5 and during preparation of the LEEIE ( <b>Negligible, not significant</b> ).			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>Negligible or minor, not</b> significant).			
	Operation		1	
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Moderate-slight, adverse, not significant).	There is views o to lead Grimse significa
158 King George's	Construction			
<u>Avenue.</u> <u>Figure 1.7</u> – main development site 14.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).		There i vibration effects a recepto
<u>Noise and Vibration</u> – Receptor 12.	Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE ( <b>Minor adverse, not significant</b> ).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		phase effect is
<u>Air Quality</u> – Receptor LE36.	Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations ( <b>Negligible, not significant</b> ).			

ntial for combined effect.

is low potential for combined effects arising from noise and of the operational site. Combined, these effects are unlikely ad to an increased sense of disturbance for receptors at seys Lane during the operational phase and so additional icant adverse inter-relationship effect is unlikely.

is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these ts are likely to lead to an increased sense of disturbance for otors at 158 King George's Avenue during the construction and an additional significant adverse inter-relationship is likely.

Volume 10 Appendix 2B Assessment of Inter-relationship Effects |



	Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potenti
	<u>andscape and Visual</u> - Receptor group 16.	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day ( <b>Negligible, not significant</b> ).			
		Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day ( <b>Moderate adverse, not significant</b> ).			
		Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
		Construction vibration during phases, 1, 2, 5 and preparation of LEEIE ( <b>Negligible, not significant</b> ).			
		Construction road traffic on surrounding network during 2023 and 2028 ( <b>Negligible or minor, not</b> <b>significant</b> ). Operation			
		Noise during the normal operation of the power station and operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Negligible, not significant</b> ).	There is King Ge inter-rel
ł	Heath View.	Construction			
	<u>Figure 1.7</u> – main development site 16.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).		There vibratio effects
F	<u>Noise and Vibration</u> – Receptor 10. Air <u>Quality</u> – Receptor	Construction noise during the day (0700-2300) as dictated by LEEIE, during preparation of LEEIE ( <b>minor adverse, not significant</b> ).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		for rece additior
	_E55. _andscape and Visual - Receptor group 17.	Construction noise during the day (0700-2300) as dictated by LEEIE during the early and later years Operations ( <b>minor adverse, not significant</b> ).			
		Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day ( <b>Negligible, not significant</b> ).			
		Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day ( <b>Moderate adverse, not significant</b> ).			

ntial for combined effect.

e is low potential for combined effects on receptors at 158 George's Avenue and so no additional significant adverse relationship effect is likely during operation.

e is low potential for combined effects from noise and tion, air quality and views of construction. Combined, these ts are unlikely to lead to an increased sense of disturbance eceptors at Heath View during the construction phase and so tional significant adverse inter-relationship effect is unlikely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potenti
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction vibration during all Phases 1, 2 and 5 and preparation of LEEIE ( <b>Negligible, not significant</b> ).			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>Negligible or minor, not</b> <b>significant</b> ). Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Slight, adverse, not significant).	There is of the c lead to a View du adverse
Keepers Cottage.	Construction			•
Figure       1.7       –       main         development site       17.         Noise       and       Vibration       –         Receptor       11.       –       Receptor       11. <u>Air Quality</u> –       Receptor       Le52.         Landscape       and       Visual       –         –       Receptor       group       15.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A ( <b>Moderate</b> <b>adverse, significant</b> ). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4, and Phase 5 (average day) ( <b>Minor adverse</b> , <b>not significant</b> )			There is vibration effects disturba construc relations

ntial for combined effect.

e is low potential for combined effects from noise and views e operational site. Combined, these effects are unlikely to to an increased sense of disturbance for receptors at Heath during the operational phase and so additional significant rse inter-relationship effect is unlikely.

e is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these ts are likely to lead to a slightly increased sense of rbance for receptors at Keepers Cottage during the truction phase and an additional significant adverse interonship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>negligible, not significant</b> ).			
	Construction vibration during Phase 1 and 2 (minor adverse, not significant).			
	Construction vibration during Phase 5 ( <b>Negligible</b> , <b>not significant</b> )			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>negligible or minor, not significant</b> ).			
	Operation			
	Noise during the normal operation of the power station and power station operation plus back generator testing (low or negligible, not significant).		Views of operation (Major to major-moderate, adverse, significant).	There is of the c to an is Cottage adverse
King George's Avenue.	Construction			
<u>Figure 1.7</u> – main development site 17.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).		There vibratio effects
Noise and Vibration – Receptor 12.	Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE ( <b>Minor adverse, not significant</b> ).			for rece phase effect is
<u>Air Quality</u> – Receptor LE36. <u>Landscape and Visual</u> – Receptor group 17.	Construction noise during the day (0700-2300) as dictated by LEELE during the early years operations			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day ( <b>Negligible, not significant</b> ).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement busiest day ( <b>Moderate adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material			

ntial for combined effect.

e is high potential for combined effects from noise and views e operational site. Combined, these effects are likely to lead n increased sense of disturbance for receptors at Keepers age during the operational phase and so additional significant rrse inter-relationship effect is likely.

te is low potential for combined effects from noise and attion, air quality and views of construction. Combined, these ets are unlikely to lead to an increased sense of disturbance ecceptors at King George's Avenue during the construction are and an additional significant adverse inter-relationship et is unlikely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ).			
	Construction vibration during Phase 1 and 2 and during preparation of the LEEIE ( <b>Minor adverse, not significant</b> ).			
	Construction vibration during Phase 5 ( <b>Negligible, not significant)</b>			
	Construction road traffic on surrounding network in 2023 and 2028 ( <b>Negligible or minor, not significant</b> ).			
	Operation			
	Noise during the normal operation of the power station and operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Slight, adverse, not significant).	There i of the lead to George signific
Pro Corda	Construction			
Figure 1.7 – main development site 18. <u>Noise and Vibration</u> – Receptor 13. <u>Air Quality</u> – Receptor LE16. <u>Landscape and Visual</u> – Receptor group 10.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A, Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Minor adverse, not significant). Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles (Minor adverse, not significant). Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant). Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Minor adverse, not significant). Construction noise during the night (2300-0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling (Negligible, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant). Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		There vibratio effects for reca addition

ntial for combined effect.

e is low potential for combined effects from noise and views e operational site. Combined, these effects are unlikely to to an increased sense of disturbance for receptors at King rge's Avenue during the operational phase and so additional ficant adverse inter-relationship effect is unlikely.

e is low potential for combined effects from noise and tion, air quality and views of construction. Combined, these ts are unlikely to lead to an increased sense of disturbance eceptors Pro Corda during the construction phase and an tional significant adverse inter-relationship effect is unlikely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	Construction road traffic on surrounding network in 2023 and 2028 ( <b>Negligible or minor, not significant</b> ). Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation. Effects for visual receptor group 10 are assessed to be major to major- moderate, adverse, significant. However, views from within the Pro Corda site would be less extensive than for the receptor group as a whole due to screening provided by the abbey buildings and tree cover adjacent to the B1122 and Leiston Old Abbey Residential Home.	There i of the lead to Pro Co signific
Lovers Lane/Sandy			1	1
<u>Figure 1.7</u> – main development site 19. <u>Noise and Vibration</u> – Receptor 14. <u>Air Quality</u> – Receptor LE33. <u>Landscape and Visual</u> – Receptor group 15.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate adverse, significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2 and Phase 5 (average day) (Minor adverse, not significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 (Negligible, not significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 (Negligible, not significant). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) (Minor adverse, not significant). Construction noise during the night (2300-0700) during the period when the green rail route is operational at night (Negligible, not significant). Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling(Negligible, not significant). Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) (Negligible, not significant).			There vibratic effects disturb during advers

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#### ntial for combined effect.

e is low potential for combined effects from noise and views e operational site. Combined, these effects are unlikely to to a slightly increased sense of disturbance for receptors at Corda during the operational phase and an additional ficant adverse inter-relationship effect is unlikely.

e is high potential for combined effects from noise and attion, air quality and views of construction. Combined, these ets are likely to lead to a slightly increased sense of arbance for receptors at Lovers Lane/Sandy Lane Junction ing the construction phase and an additional significant erse inter-relationship effect is likely.





Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>Negligible, not significant</b> ).			
	Road traffic on surrounding network during 2023 (receptors within the 55db contours) ( <b>Moderate</b> adverse, significant).			
	Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Major to moderate, adverse, significant</b> ).	There i of the o to a s Lovers and ar likely.
1 Common Farm			·	
<u>Cottage, Lovers</u> <u>Lane/Sandy Lane</u> <u>Junction.</u> Figure 1.7 – main	dictated by main development site (including activities on LEEIE) During Phase 1A (Moderate			There vibratio effects disturb
IndiceIndicedevelopment site20.NoiseandVibration-Receptor14.	Construction noise during the day (0700-2300) as	cluding construction ( <b>Negligible, not significant</b> ). Phase		Lane/S additio
<u>Air Quality</u> – Receptor LE32. <u>Landscape and Visual</u> – Receptor group 15.	dictated by main development site (including activities on LEFIE) During Phase 3 and 4			
	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to			

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ntial for combined effect.

e is high potential for combined effects from noise and views e operational site. Combined, these effects are likely to lead slightly increased sense of disturbance for receptors at the Lane/Sandy Lane Junction during the operational phase an additional significant adverse inter-relationship effect is 7.

e is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these its are likely to lead to a slightly increased sense of rbance for receptors at 1 Common Farm Cottages, Lovers //Sandy Lane Junction during the construction phase and an tional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>Negligible, not significant</b> ).			
	Road traffic on surrounding network during 2023 (receptors within the 55db contours) ( <b>Moderate</b> adverse, significant).			
	Construction road traffic on surrounding network during 2028 ( <b>Negligible or minor, not</b> significant).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Major-moderate, adverse, significant</b> ).	There i of the c to a sli Commo during t inter-re
2 Common Farm	Construction		1	1
Cottage,       Lovers         Lane/Sandy       Lane         Junction.         Figure       1.7       – main         development site 20.       Noise and Vibration       –         Noise and Vibration       –       Receptor 14.         Air Quality       – Receptor       LE32.         Landscape and Visual       – Receptor group 15.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A ( <b>Moderate</b> <b>adverse, significant</b> ). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2 and Phase 5 (average day) ( <b>Minor adverse, not significant</b> ). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 ( <b>Negligible, not significant</b> ). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 3 and 4 ( <b>Negligible, not significant</b> ). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) ( <b>Minor adverse, not significant</b> ). Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ). Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant). Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).		There vibratio effects disturba Lane/S addition

ntial for combined effect.

e is high potential for combined effects from noise and views e operational site. Combined, these effects are likely to lead slightly increased sense of disturbance for receptors at 1 mon Farm Cottage, Lovers Lane/Sandy Lane Junction ig the operational phase and an additional significant adverse relationship effect is likely.

e is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these its are likely to lead to a slightly increased sense of rbance for receptors at 2 Common Farm Cottages, Lovers //Sandy Lane Junction during the construction phase and an tional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potenti
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>Negligible, not significant</b> ).			
	Road traffic on surrounding network during 2023 (receptors within the 55db contours) ( <b>Moderate</b> adverse, significant).			
	Construction road traffic on surrounding network during 2028 ( <b>Negligible or minor, not significant</b> ).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>negligible, not significant</b> ).	Views of operation ( <b>Major-moderate, adverse, significant</b> ).	There is of the o to a slig Commo during t inter-rel
Old Abbey Farm/Care	Construction			
Home. <u>Figure 1.7</u> – main development site 22. <u>Noise and Vibration</u> – Receptor 15. <u>Air Quality</u> – Receptor LE26.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A ( <b>Moderate</b> <b>adverse, significant</b> ). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4, and Phase 5 (average day) ( <b>Minor adverse,</b> <b>not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Minor</b> <b>adverse to negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).	Views of construction ( <b>Major to moderate</b> , <b>adverse, significant</b> ).	There i vibration likely to recepto phase effect is
Landscape and Visual – Receptor group 14.				
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Moderate adverse, significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Moderate adverse, significant</b> ).			

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ntial for combined effect.

e is high potential for combined effects from noise and views e operational site. Combined, these effects are likely to lead slightly increased sense of disturbance for receptors at 2 mon Farm Cottage, Lovers Lane/Sandy Lane Junction og the operational phase and an additional significant adverse relationship effect is likely.

e is high potential for combined effects from noise and ation and views of construction. Combined, these effects are v to lead to a slightly increased sense of disturbance for ptors at Old Abbey Farm/Care Home during the construction se and an additional significant adverse inter-relationship tt is likely.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) ( <b>Negligible, not significant</b> ). Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5			
	(Negligible, not significant). Construction road traffic on surrounding network during 2023 and 2028 (Negligible or minor adverse, not significant).			
	Operation Noise during the normal operation of the power station and during power station operation plus back generator testing ( <b>low or negligible, not</b> <b>significant</b> ).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Moderate, adverse, not</b> significant).	There i of the lead to Abbey additior
Plantation Cottages.	Construction			addition
Figure       1.7       – main development site 23.         Noise       and       Vibration       –         Receptor       16.       Air       Quality       – Receptor LE25.         Landscape       and       Visual       –         – Receptor       group       11.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A, Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) ( <b>Minor</b> <b>adverse, not significant</b> ). Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 busiest day ( <b>Minor adverse, not significant</b> ). Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Minor adverse, not significant</b> ). Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Minor adverse, not significant</b> ). Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Minor</b> <b>adverse to negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		There vibratio effects disturba constru relation
	Construction vibration during Phase 1 and 2 ( <b>Minor adverse, not significant</b> ).			

ntial for combined effect.

e is low potential for combined effects from noise and views e operational site. Combined, these effects are unlikely to to an increased sense of disturbance for receptors at Old ey Farm/Care Home during the operational phase and an ional significant adverse inter-relationship effect is unlikely.

e is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these its are likely to lead to a slightly increased sense of rbance for receptors at Plantation Cottages during the truction phase and an additional significant adverse interonship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	Construction vibration during Phase 5 ( <b>Negligible</b> , <b>not significant</b> )			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>Negligible or minor, not significant</b> ).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing ( <b>low or negligible, not significant</b> ).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Major-moderate to moderate</b> , <b>adverse</b> , <b>significant</b> ).	There of the to a s Planta signific
Potters Farm.	Construction			
<u>Figure 1.7</u> – main development site 24. <u>Noise and Vibration</u> –	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During all construction Phase ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Major to major-moderate, adverse, significant).	There vibratio effects disturb
Receptor 17. <u>Air Quality</u> – Receptor LE27.	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Minor adverse, not significant</b> ).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		phase effect i
Landscape and Visual – Receptor group 10.	Construction noise during the night (2300- 0700Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) ( <b>Negligible, not significant</b> ).			
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>Negligible, not significant</b> ).			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>negligible or minor, not</b> significant). Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Major-moderate to moderate</b> , adverse, significant).	There of the to a s Potters signific

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ntial for combined effect.

e is high potential for combined effects from noise and views e operational site. Combined, these effects are likely to lead slightly increased sense of disturbance for receptors at tation Cottage during the operational phase and an additional ficant adverse inter-relationship effect is likely.

re is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these ts are likely to lead to a slightly increased sense of rbance for receptors at Potters Farm during the construction se and an additional significant adverse inter-relationship t is likely.

e is high potential for combined effects from noise and views e operational site. Combined, these effects are likely to lead slightly increased sense of disturbance for receptors at ers Farm during the operational phase and an additional ficant adverse inter-relationship effect is likely.

Volume 10 Appendix 2B Assessment of Inter-relationship Effects |



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
Potters Street.	Construction			
<u>Figure 1.7</u> – main development site 25. <u>Noise and Vibration</u> – Receptor 18. <u>Air Quality</u> – Receptor LE27.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During all construction Phase ( <b>Minor adverse, not significant</b> ). Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Minor</b> <b>adverse to negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		There vibratic effects disturb phase effect is
Landscape and Visual – Receptor group 10.	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Minor adverse, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>negligible, not significant</b> ).			
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>negligible, not significant</b> ).			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>negligible or minor, not significant</b> ).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Major-moderate to moderate</b> , <b>adverse, significant</b> ).	There i of the o to a s Potters signific
Rosery Cottages.	Construction		I	l olginio
<u>Figure 1.7</u> – main development site 26. <u>Noise and Vibration</u> – Receptor 19.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A, Phase 1B/2, Phase 3 and 4 and Phase 5 (busiest day) ( <b>Minor</b> <b>adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Minor</b> <b>adverse to negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements and combustion emissions during		There vibratic likely t recepto additio
<u>Air Quality</u> – Receptor LE13. <u>Landscape and Visual</u>	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (average day) ( <b>negligible, not significant</b> ).	construction ( <b>Negligible, not significant</b> ).		
– Receptor group 15.	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>negligible, not significant</b> ).			

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#### ntial for combined effect.

e is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these ts are likely to lead to a slightly increased sense of rbance for receptors at Potters Street during the construction and an additional significant adverse inter-relationship t is likely.

e is high potential for combined effects from noise and views e operational site. Combined, these effects are likely to lead slightly increased sense of disturbance for receptors at ers Street during the operational phase and an additional ficant adverse inter-relationship effect is likely.

e is high potential for combined effects from noise and tion and views of construction. Combined, these effects are to lead to a slightly increased sense of disturbance for ptors Rosery Cottages during the construction phase and an ional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potenti
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>negligible, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>negligible, not significant</b> ).			
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>negligible, not significant</b> ).			
	Road traffic on surrounding network during 2023 (receptors within the 55db contours) ( <b>Moderate</b> adverse, significant).			
	Construction road traffic on surrounding network during 2028 ( <b>Negligible or minor, not significant</b> ).			
	Operation			-
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Major to moderate, adverse, significant</b> ).	There is of the o to a sli Rosery significa
Round House.	Construction			<u>-</u>
<u>Figure 1.7</u> – main development site 27. <u>Noise and Vibration</u> –	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A ( <b>moderate</b> adverse, significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant). Exhaust emissions from additional road vehicle		There i vibration effects disturba phase
Receptor 20. <u>Air Quality</u> – Receptor LE25.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) ( <b>Minor adverse, not significant</b> ).	movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		effect is
Landscape and Visual – Receptor group 14.	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) ( <b>Moderate adverse, significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Moderate adverse, significant</b> ).			

ntial for combined effect.

e is high potential for combined effects from noise and views e operational site. Combined, these effects are likely to lead slightly increased sense of disturbance for receptors at ery Cottage during the operational phase and an additional ficant adverse inter-relationship effect is likely.

e is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these its are likely to lead to a slightly increased sense of rbance for receptors at Round House during the construction is and an additional significant adverse inter-relationship it is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Moderate adverse, significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Moderate adverse, significant</b> ).			
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>negligible, not significant</b> ).			
	Road traffic on surrounding network during 2023 (receptors within the 55db contours) ( <b>Moderate adverse, significant</b> ).			
	Construction road traffic on surrounding network during 2028 ( <b>Negligible or minor, not</b> significant).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing ( <b>low or negligible, not significant</b> ).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Moderate, adverse, not</b> significant).	There is of the of lead to Round significa

ntial for combined effect.

e is low potential for combined effects from noise and views e operational site. Combined, these effects are unlikely to to a slightly increased sense of disturbance for receptors at nd House during the operational phase and so no additional ficant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Poten
Sizewell Sports &	Construction			
Social Club.	Construction noise during the day (0700-2300) as	Effects on health from particulate matter	Views of construction (Moderate, adverse, not	There
<u>Figure 1.7</u> – main development site 28.	dictated by LEEIE during preparation of LEEIE (Minor adverse, not significant).	generated from construction activities (Minor adverse to negligible, not significant).	significant).	vibrati effects recept
Noise and Vibration – Receptor 21.	Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations ( <b>Minor adverse, not significant</b> ).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		constr relatio
<u>Air Quality</u> – Receptor LE55.	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (average day) ( <b>negligible</b> , <b>not</b>			
Landscape and Visual – Receptor group 19.	significant).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (busiest day) ( <b>moderate adverse</b> , <b>significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling. ( <b>negligible, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>negligible, not significant</b> ).			
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>negligible, not significant</b> ).			
	Road traffic on surrounding network during 2023 (receptors within the 55db contours) ( <b>Moderate</b> adverse, significant).			
	Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Moderate -slight, adverse, not significant).	There of the lead Sizew

#### ential for combined effect.

ere is high potential for combined effects from noise and ration, air quality and views of construction. Combined, these ects are likely to lead to an increased sense of disturbance for eptors at Sizewell Sports and Social Club during the instruction phase and so an additional significant adverse interationship effect is likely.

re is low potential for combined effects from noise and views he operational site. Combined, these effects are unlikely to d to an increased sense of disturbance for receptors at ewell Sports and Social Club during the operational phase and

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Image: Size well         Construction         Image: Size well         Views         Construction (Moderate, adverse, not likely).         Image: Size well           Figure 1, 7 - main development size (not wight)         Construction noise during the day (0700-2300) as development size (not well adverse) on the construction advives         Effects on health from particulate matter well adverse).         Views of construction (Moderate, adverse, not The well adverse).         Significant).         Significa	Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Poten
Size ed         View         Construction         Construction         Model Aurols					1
Quebra Armab.         Construction noise during the day (0700-2200) as development site. (induced schuling and construction schuling schuling advisions on LEEE During all construction Phases and Vibration - Receptor 22.         Construction noise during the night (2300-0700) vareage noise levels during period when material undeage noise levels during period when material undeage noise levels during the night (2300-0700) vareage noise levels during the night (2300-0700) vareage noise levels during the night (2300-0700) vareage noise levels during period when material undeage from gene noise during the night (2300-0700) vareage noise levels during period when material undeage from gene noise during the night (2300-0700) vareage noise during the night (200-0700) vareage noi significant).	Sizewell Village	Construction			likely.
Floure 1.7       make       idclated by main development site (including development site 200       generated from construction is significant).       significant).       where the significant).       where			Effects on boolth from particulate matter	Views of construction (Moderate adverse not	Thore
Figure 1, Z       - main       activities on LEEID During all construction Phases       activities on LEEID During Phases 4 and Ling to the phase for the power       activities on LEEID During Phases 4 and Ling to phase 4 and Phase 5 (negligible, not significant).       activities on LEEID During Phases 4 and Ling to phase 4 and Phase 5 (negligible, not significant).       activities on LEEID During Phase 4 and Chorare to stignificant).       activities on LEEID During Phase 4 and Chorare to stignificant).       activities on LEEID During Phase 4 and Chorare to stignificant).       activities on LEEID During Phase 4 and Chorare to stignificant).       activities					
Noise and Vibration Receptor 22.       Construction noise during the night (2300-0700) serage noise levels during period when material unleading from green rail route and hauling to stockplies and, continuous excavation and tunnelling (negligible, not significant).       Exhaust emissions from additione missions onstruction (Negligible, not significant).       Image: Construction noise during the night (2300-0700) stockplies and, continuous excavation and tunnelling (negligible, not significant).       Construction noise during the night (2300-0700) monstruction noise during period when material unleading from green rail route and hauling to stockplies and, continuous excavation and tunnelling (negligible, not significant).       Construction noise during the night (2300-0700) Maximum noise levels during period when material unleading from green rail route and hauling to stockplies and, conting Phases 1 and 2, during preparation of LEEE and Phase 5 (negligible, not significant).       Exhaust emissions from combustion emissions tunnelling (negligible, not significant).       Views of operation (Moderate-slight, adverse, finger grant and coparation pile back generator testing during operation (Negligible, not significant).       Views of construction (Moderate-slight, adverse, so not so not significant).       There significant).         The Studio.       Construction noise during the day (0700-2200) a during operation (Negligible, not significant).       Significant).       Views of construction (Major to major-moderate, so not significant).       There so not significant).         The Studio.       Construction noise during the day (0700-2200) a during operation (Negligible, not significant).       Significant).       Views of construction (Major to major-moderate, so not significant). </td <td></td> <td></td> <td></td> <td></td> <td></td>					
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development site 30.activities on LEEIE) During Phase 1A (Moderate adverse, significant).adverse to negligible, not significant).Noise and Vibration Receptor 23Air Quality LE32 Receptor LE32.Landscape and Visual - Receptor group 15Construction noise during the day (0700-2300) as activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant)Construction noise during the day (0700-2300) as activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant)Construction noise during the day (0700-2300) as - Receptor group 15	<u>Figure 1.7</u> – main				1
Noise and Vibration – Receptor 23.adverse, significant).at The significAir Quality – Receptor LE32.Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).Exhaust emissions from additional road vehicle movements and combustion emissions during construction (Negligible, not significant).at The significLandscape and Visual – Receptor group 15.Construction noise during the day (0700-2300) asat The signific	development site 30.			auverse, not significant).	1
Receptor 23.Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).Exhaust emissions from additional road venicle movements and combustion emissions during construction (Negligible, not significant).Landscape and Visual - Receptor group 15.Construction noise during the day (0700-2300) asExhaust emissions from additional road venicle movements and combustion emissions during construction (Negligible, not significant).	Noise and Vibration				
Air Quality LE32.Receptor LE32.Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).Interest and combustion emissions during construction (Negligible, not significant).Landscape and Visual - Receptor group 15.Construction noise during the day (0700-2300) asInterest and combustion emissions during to significant).					signifi
Air Quality       Receptor         LE32.       activities on LEEIE) During Phase 1B/2, Phase 3 and 4 and Phase 5 (average day) (Minor adverse, not significant).			s		
LE32.       and 4 and Phase 5 (average day) (Minor adverse, not significant).         - Receptor group 15.       Construction noise during the day (0700-2300) as					
Landscape and Visual       not significant).         - Receptor group 15.       Construction noise during the day (0700-2300) as	LE32.				
<ul> <li>Receptor group 15.</li> <li>Construction noise during the day (0700-2300) as</li> </ul>	Landscape and Vieual				
Construction hoise during the day (0700-2300) as		Construction point during the day (0700.0200)			
l dictated by main development site (including i		dictated by main development site (including			

#### ential for combined effect.

no additional significant adverse inter-relationship effect is

re is low potential for combined effects from noise and ation, air quality and views of construction. Combined, these cts are unlikely to lead to an increased sense of disturbance receptors at Sizewell Village (Vulcan Arms) during the struction phase and so no additional significant adverse intertionship effect is likely.

re is low potential for combined effects from noise and views ne operational site. Combined, these effects are unlikely to to an increased sense of disturbance for receptors at ewell Village (Vulcan Arms) during the operational phase and no additional significant adverse inter-relationship effect is

re is high potential for combined effects from noise and ation and views of construction. Combined, these effects are y to lead to an increased sense of disturbance for receptors he Studio during the construction phase and so an additional ificant adverse inter-relationship effect is likely.

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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	activities on LEEIE) During Phase 5 busiest day (moderate adverse, significant).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>minor adverse, not significant</b> ).			
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>negligible, not significant</b> ).			
	Construction road traffic on surrounding network (negligible or minor, not significant). Operation			
	Noise during the normal operation of the power	Exhaust emissions from combustion emissions	Views of operation (Major-moderate, adverse,	There is
	station and operation plus back generator testing (low or negligible, not significant).	during operation ( <b>Negligible, not significant</b> ).	significant).	of cons slightly during t inter-re
Valley Road North.	Construction			
<u>Figure 1.7</u> – main development site 31.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling ( <b>minor adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).		There vibratio effects
<u>Noise and Vibration</u> – Receptor 24. Air Quality – Receptor	Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE (minor adverse, not significant).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		for rece and so likely.
LE35. Landscape and Visual – Receptor group 17.	Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations ( <b>negligible, not significant</b> ).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (average day) ( <b>negligible, not significant</b> ).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (busiest day) ( <b>minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>minor adverse, not significant</b> ).			

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ntial for combined effect.

e is high potential for combined effects from noise and views onstruction. Combined, these effects are likely to lead to a tly increased sense of disturbance for receptors at The Studio og the operational phase and an additional significant adverse relationship effect is likely.

te is low potential for combined effects from noise and attion, air quality and views of construction. Combined, these ets are unlikely to lead to an increased sense of disturbance ecceptors at Valley Road North during the construction phase so no additional significant adverse inter-relationship effect is 7.

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>minor adverse, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>negligible, not significant</b> ).			
	Operation			1
	Noise during the normal operation of the power station and during power station operation plus back generator testing ( <b>low or negligible, not significant</b> ).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Slight, adverse, not significant).	There i of the lead to Road N signific
Valley Road South.	Construction			
<u>Figure 1.7</u> – main development site 32.	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling (minor adverse, not significant).	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).	Views of construction (Slight, adverse, not significant).	vibratio effects
<u>Noise and Vibration</u> – Receptor 25. <u>Air Quality</u> – Receptor	Construction noise during the day (0700-2300) as dictated by LEEIE during preparation of LEEIE ( <b>minor adverse, not significant</b> ).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		for rece and so likely.
LE34. Landscape and Visual – Receptor group 17.	Construction noise during the day (0700-2300) as dictated by LEEIE during the Early Years Operations ( <b>negligible, not significant</b> ).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (average day) ( <b>negligible, not significant</b> ).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement (busiest day) ( <b>minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>minor adverse, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>minor adverse, not significant</b> ).			

ntial for combined effect.

e is low potential for combined effects from noise and views e operational site. Combined, these effects are unlikely to to an increased sense of disturbance for receptors at Valley d North during the operational phase and so no additional ficant adverse inter-relationship effect is likely.

te is low potential for combined effects from noise and attion, air quality and views of construction. Combined, these ets are unlikely to lead to an increased sense of disturbance ecceptors at Valley Road South during the construction phase so no additional significant adverse inter-relationship effect is 7.

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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>negligible, not significant</b> ).			
	Construction vibration during Phases 1 and 2, during preparation of LEEIE and Phase 5 ( <b>negligible, not significant</b> ).			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>negligible or minor, not</b> <b>significant</b> ). Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Slight, adverse, not significant).	There i of the lead to Road S signific
B1122 Station Road	Construction			
<u>Figure 1.7</u> – main development site 36.	No noise effects identified at receptor location.	Effects on health from particulate matter generated from construction activities (Minor adverse to negligible, not significant).		There vibratio effects
Noise and Vibration – No corresponding residential receptor.		Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		for rec phase effect is
Air Quality - Receptor	Operation			
LE1. Landscape and Visual – Receptor group 17.	No noise effects identified at receptor location.	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation (Slight, adverse, not significant).	There is Station increas additior
				during
Abbey View Lodges,				
Abbey Road Leiston Suffolk IP16 4TA. Figure 1.7 – main	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 1A ( <b>Moderate adverse, significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Minor adverse to negligible, not significant</b> ). Exhaust emissions from additional road vehicle	Views of construction (Moderate, adverse, not significant).	There vibratio effects recepto constru
development site 35 and main development site 42.		movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		relation
Noise and Vibration – Receptor 3.	significant).			
<u>Air Quality</u> – Receptor LE2. Landscape and Visual	Construction noise during the day (0700-2300) as dictated by main development site (including activities on LEEIE) During Phase 5 (busiest day) ( <b>Moderate adverse, significant</b> ).			
– Receptor group 16.	Construction noise during the night (2300-0700) Average noise levels during period when material			

tial for combined effect.

is low potential for combined effects from noise and views operational site. Combined, these effects are unlikely to to an increased sense of disturbance for receptors at Valley South during the operational phase and so no additional ficant adverse inter-relationship effect is likely.

is low potential for combined effects from noise and tion, air quality and views of construction. Combined, these ts are unlikely to lead to an increased sense of disturbance eceptors at B1122 Station Road during the construction e and so no additional significant adverse inter-relationship is likely.

is low potential for combined effects on receptors at B1122 on Road. Combined, these effects are unlikely to lead to an ased sense of disturbance for the receptors and so no ional significant adverse inter-relationship effect is likely g operation

is high potential for combined effects from noise and tion, air quality and views of construction. Combined, these ts are likely to lead to an increased sense of disturbance for otors at Abbey View Lodges, Orchard House during the truction phase and so an additional significant adverse interonship effect is likely.

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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potenti
	unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling. ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300–0700) Maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling) ( <b>Negligible, not significant</b> ).			
	Construction Vibration during compaction work in Phases 1 and 2 and during preparation of LEEIE and during Phase 5 ( <b>Negligible, not significant</b> ).			
	Road traffic on surrounding network during 2023 (receptors within the 55db contours) ( <b>Moderate</b> adverse, significant).			
	Construction road traffic on surrounding network during 2028 (Negligible or minor, not significant).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Negligible, not significant</b> ).	There is View Lo effects for the relation
Leiston Primary	Construction			rolation
School Noise and Vibration – Receptor 10	Construction noise during the day (0700-2300) as dictated by LEEIE during initial stripping/levelling ( <b>Minor adverse, not significant</b> ).		No visual effects considered due to the location within the existing built up area of Leiston	There vibration lead to Primary
Air Quality – Receptor LE54	Construction noise during the day (0700-2300) as dictated by LEEIE, during preparation of LEEIE (minor adverse, not significant).	Exhaust emissions from additional road vehicle movements and combustion emissions during construction ( <b>Negligible, not significant</b> ).		additior
Landscape and Visual – No visual effects considered due to the location within the	Construction noise during the day (0700-2300) as dictated by LEEIE during the early and later years Operations ( <b>minor adverse, not significant</b> ).			
existing built up area of Leiston	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and reinstatement average day ( <b>Negligible, not significant</b> ).			
	Construction noise during the day (0700-2300) as dictated by LEEIE during restoration and			

ntial for combined effect.

e is low potential for combined effects on receptors at Abbey Lodges Orchard House 105 Abbey Road. Combined, these ts are unlikely to lead to an increased sense of disturbance ne receptors and so no additional significant adverse interionship effect is likely during operation.

e is low potential for combined effects from noise and tion, and air quality. Combined, these effects are unlikely to to an increased sense of disturbance for receptors at Leiston ary School during the construction phase and so no ional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	Potent
	reinstatement busiest day ( <b>Moderate adverse,</b> significant).			
	Construction noise during the night (2300-0700) average noise levels during period when material unloading from green rail route and hauling to stockpiles ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) Average noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction noise during the night (2300-0700) maximum noise levels during period when material unloading from green rail route and hauling to stockpiles and, continuous excavation and tunnelling ( <b>Negligible, not significant</b> ).			
	Construction vibration during all Phases 1, 2 and 5 and preparation of LEEIE ( <b>Negligible, not</b> <b>significant</b> ).			
	Construction road traffic on surrounding network during 2023 and 2028 ( <b>Negligible or minor, not significant</b> ).			
	Operation			
	Noise during the normal operation of the power station and during power station operation plus back generator testing (Low or negligible, not significant).	Exhaust emissions from combustion emissions during operation ( <b>Negligible, not significant</b> ).	No visual effects considered due to the location within the existing built up area of Leiston	There vibratio lead to Primary

ntial for combined effect.

re is low potential for combined effects from noise and ation, and air quality. Combined, these effects are unlikely to to an increased sense of disturbance for receptors at Leiston nary School during operation and so no additional significant erse inter-relationship effect is likely



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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Willow Marsh Cottage.	Construction		
<u>Figure 1.2</u> - D10 <u>Noise and Vibration</u> - Receptor F – North-west corner of the site (Willow Marsh Lane). <u>Air Quality</u> – Receptor YX14.	Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) ( <b>Minor or Negligible, not significant</b> ). Construction vibration ( <b>Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not</b> <b>significant</b> ). Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not</b> <b>significant</b> ).	Views of construction activity ( <b>Slight-minimal</b> , <b>adverse</b> , <b>not significant</b> ).
Landscape and Visual –	Operation		
Viewpoint R3 - Willow Marsh Lane, near level crossing - Motorists and cyclist using Willow Marsh Lane, residents along Willow Marsh Lane, train	Noise and vibration from operation of the proposed development (Minor or Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation (Minor adverse to negligible, not significant).	Views of the taller elements of the proposed development, including lighting columns during operation (Slight, minimal adverse, not significant).
passengers (Receptor Group 2).			Visibility of proposed lighting at night during operation (Moderate adverse, not significant).
	Removal and reinstatement.		
	Noise and vibration levels during removal and reinstatement (Minor or Negligible, not significant).	· · · ·	Views of construction activity during removal and reinstatement (Slight-minimal, adverse, not significant).
	Vibration levels during removal and reinstatement <b>(Negligible, not significant).</b>	Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).	
Residential properties located	Construction		
along London Road to the north of the site. Figure 1.2 - D9	Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) ( <b>Minor or Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity, progressing towards views of the taller elements of the proposed development ( <b>Slight-minimal</b> <b>adverse, not significant</b> ).
Noise and Vibration - Receptor G - Properties north of the site, west of the A12.	Construction vibration ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
<u>Air Quality</u> – Receptor YX15.	Operation		
Landscape and visual - Viewpoint R2 - London Road, Near High Street - Users of the public footpath to the north of	Noise from Operation of Proposed Development (Minor or Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation ( <b>Minor adverse to</b> <b>negligible, not significant</b> ).	Views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and bunds during operation ( <b>Slight-minimal</b> , <b>adverse, not significant</b> ).
the site, south of the A144 (receptor group 2).			Visibility of proposed operational lighting at night ( <b>Moderate, adverse, not significant</b> ).

# the northern park and ride Potential for combined effect.

There is a low potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D10 during the construction phase and so no additional significant adverse interrelationship effect is likely.

There is a low potential for combined effects arising from noise and vibration, air quality and disruption to views and from lighting, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D10 during operation and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D10 during removal and reinstatement and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D9 during the construction phase and so no additional significant adverse interrelationship effect is likely.

There is a low potential for combined effects arising from noise and vibration, air quality and disruption to views and from lighting. Combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D9 during operation and so no additional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
	Removal and Reinstatement.		
	Noise and vibration levels during removal and reinstatement ( <b>Minor or Negligible, not</b> <b>significant</b> ). Vibration levels during removal and reinstatement ( <b>Negligible, not significant</b> ).	Effects on health from particulate matter generated from removal and reinstatement activities ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	Views of construction activity, associated with removal and reinstatement phase, of the taller elements of the proposed development ( <b>Slight-minimal, adverse, not significant</b> ).
Residential properties to the south-west of the East Suffolk	Construction		
Line to the south of the site.	Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) ( <b>Minor or Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
Figure 1.2 - D1, D2, D11			
<u>Noise and Vibration</u> – Receptor A - Properties in the area at southern end of site,	Construction vibration ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
west of the rail line.	Operation		
B - Properties at the southern end of the site, east of the A12. Predominantly medium sensitivity.	Noise and vibration from operation of the proposed development (Minor or Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation (Minor adverse to negligible, not significant).	No effects identified at receptor location.
<u>Air Quality -</u> YX1 and YX16.			
Landscape and Visual - No corresponding receptor group.	Removal and reinstatement.	I	
Outside zone of theoretical visibility.	Noise and vibration levels during removal and reinstatement (Minor or Negligible, not significant).	Effects on health from particulate matter generated from removal and reinstatement activities ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
	Vibration levels during removal and reinstatement ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	
Residential properties on the	Construction		
western side of Main road adjacent to the eastern boundary of the site.	Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) ( <b>Minor or Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity, progressing towards views of perimeter fencing, with light columns and roofs of taller vehicles seen
Figure 1.2 - D3, D4, D5 <u>Noise and Vibration</u> - Receptor C - East of the A12, centre of	Construction vibration ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	above planting and landscaped bund (Major- moderate adverse, significant).
the site.	Operation	1	
Receptor D - Properties to the west of the A12, to the east of the site.	Noise and vibration from operation of the proposed development ( <b>Minor or Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements during operation (Minor adverse to negligible, not significant).	Views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and bunds during operation ( <b>Moderate to</b> <b>moderate-slight, adverse,</b> <b>not significant</b> ).

# Potential for combined effect.

There is a low potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are unlikely to lead to an increased sense of disturbance for the receptors within Group D9 during the removal and reinstatement phase and so no additional significant adverse inter-relationship effect is likely.

There is low potential for combined effects on receptor groups D1, D2 and D11. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is a low potential for combined effects arising from noise and vibration and air quality during operation. Combined these effects are unlikely likely to lead to an increased sense of disturbance for the receptors within Groups D1, D2 and D11 during operation and so no additional significant adverse inter-relationship effect is likely.

There is low potential for combined effects on receptor groups D3, D4 and D5. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D3, D4 and D5 during the construction phase and an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects arising from noise and vibration, air quality and disruption to views and from lighting. Combined these effects are likely to lead to an increased sense of disturbance for the receptors within



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	
<u>Air Quality</u> - Receptors YX13, YX11, YX11c, YX12 and YX12c.			Visibility of proposed operational lighting at night (Major-moderate, adverse, significant).	
Landscape and visual -	Removal and reinstatement.			
Viewpoint 1 - Users of the cycle way along Willow Marsh Lane and Main Road, minor roads and local residents to north and east of the site and immediately adjacent to it.	Noise and vibration levels during removal and reinstatement ( <b>Minor or Negligible, not</b> <b>significant</b> ). Vibration levels during removal and reinstatement ( <b>Negligible, not significant</b> ).	Effects on health from particulate matter generated from removal and reinstatement activities ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	Views of removal and reinstatement activity, progressing towards views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and landscaped bund (Major-moderate, adverse, significant).	
Residential properties on the	Construction			
western side of Main road adjacent to the eastern boundary of the site. Figure 1.2 - D6, D7	Construction noise (during Monday to Friday 07:00 to 19:00 and Saturday 07:00 to 13:00 working hours) ( <b>Minor or Negligible, not significant</b> ). Construction vibration ( <b>Negligible, not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not</b> <b>significant</b> ). Exhaust emissions from additional road vehicle	Views of construction activity, progressing towards views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and landscaped bund ( <b>Major-</b> <b>moderate, adverse, significant</b> ).	
Noise and vibration - Receptor E - Properties to the west of the A12, to the north end of the		movements during construction ( <b>Negligible, not</b> significant).		
east of the site.	Operation			
<u>Air Quality -</u> Receptors YX10 and YX10c. Landscape and visual -	Noise and vibration from operation of the proposed development (Minor or Negligible, not significant).	Exhaust emissions from additional road vehicle movements during operation ( <b>Minor adverse to</b> <b>negligible, not significant</b> )	Views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and bunds during operation. (Moderate to moderate-slight adverse, not significant).	
Viewpoint 1 - Users of the cycle way along Willow Marsh Lane and Main Road, minor roads			Visibility of proposed operational lighting at night. (Major-moderate, adverse, significant).	
and local residents to north and east of the site and	Removal and reinstatement.			
immediately adjacent to it.		Effects on health from particulate matter generated from removal and reinstatement activities ( <b>Negligible, not significant</b> ) Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	Views of removal and reinstatement activity, progressing towards views of perimeter fencing, with light columns and roofs of taller vehicles seen above planting and landscaped bund. (Major-moderate, adverse, significant).	
Residential properties located	Construction	1	1	
<u>along The Street to the east of</u> <u>the site.</u> <u>Figure 1.2</u> - D8	No effects identified at corresponding receptors.	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity ( <b>Negligible, not</b> significant).	
<u>Air Quality -</u> Receptor YX17.		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).		
	1	1	1	

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# Potential for combined effect.

Groups D3, D4 and D5 during operation and an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D3, D4 and D5 during the removal and reinstatement phase and an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D6 and D7 during the construction phase and an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects arising from noise and vibration, air quality and disruption to views and from lighting, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D16 and D7 during operation and an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity, combined these effects are likely to lead to an increased sense of disturbance for the receptors within Groups D6 and D7 during the removal and reinstatement phase and so an additional significant adverse effect is likely.

There is low potential for combined effects on receptor group D8. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Landscape and Visual - Visual	Operation		
receptor group 3.	No effects identified at corresponding receptors.	Exhaust emissions from additional road vehicle movements during operation ( <b>Minor adverse to</b> <b>negligible, not significant</b> ).	Views of operation ( <b>Minimal, neutral, not</b> significant).
	Removal and Reinstatement.		
	No effects identified at corresponding receptors.	Effects on health from particulate matter generated from removal and reinstatement activities ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	Views of removal and reinstatement activity ( <b>Negligible, not significant</b> ).

# Table 2B.3: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the southern park and ride

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Rookery Farm, Hacheston.	Construction		
<u>Figure 1.2</u> – WM1.	Construction noise during all phases and periods of work ( <b>Minor or Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
Noise and Vibration – Receptor D.	Construction vibration ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle	
<u>Air Quality</u> – Receptors WM13 and WM14.		movements during construction ( <b>Negligible, not</b> significant).	
Landscape and Visual – No	Operation		
corresponding residential receptor. Outside of zone of visual influence.	Noise and vibration from operation of the proposed development ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
	Removal and Reinstatement.		
	Noise levels during removal and reinstatement ( <b>Minor or Negligible, not significant</b> ). Vibration levels during removal and reinstatement ( <b>Negligible, not significant</b> ).	Effects on health from particulate matter generated from removal and reinstatement activities ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
		(	

# Potential for combined effect.

There is low potential for combined effects on receptor group D1. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the operational phase.

There is low potential for combined effects on receptor group D8. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the removal and reinstatement phase.

# Potential for combined effect.

There is low potential for combined effects on receptors at Rookery Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse interrelationship effect is likely during the construction phase.

There is low potential for combined effects on receptors at Rookery Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse interrelationship effect is likely during the operation phase.

There is low potential for combined effects on receptors at Rookery Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse interrelationship effect is likely during the removal and reinstatement phase.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Main Road.	Construction		
Figure 1.2 – WM2 Noise and Vibration –	Construction noise during all phases and periods of work ( <b>Minor or Negligible, not significant</b> ). Construction vibration ( <b>Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity ( <b>Minimal, neutral</b> , <b>not significant</b> ).
Receptor C. <u>Air Quality</u> – Receptor WM2.	Construction vibration (Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
Landscape and Visual –	Operation		I
Representative viewpoint R8. Receptor – users of footpath, residents.	Noise and vibration from operation of the proposed development ( <b>Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of operational park and ride (Minimal neutral, not significant).
		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
	Removal and reinstatement.		
	Noise levels during removal and reinstatement ( <b>Minor or Negligible, not significant</b> ). Vibration levels during removal and reinstatement	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity during removal and reinstatement (Minimal, neutral, not significant).
	(Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
Ash View, Lower Hacheston.	Construction		
Figure 1.2 – WM3	Construction noise during all phases and periods of work ( <b>Minor or Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptors location.
Noise and Vibration – Receptor B.	Construction vibration ( <b>Negligible, not significant</b> ).		
<u>Air Quality</u> – Receptor WM11		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
Landscape and Visual - No	Operation		
corresponding residential receptor. Outside zone of visual influence.	Noise and vibration from operation of the proposed development ( <b>Negligible not significant</b> ).	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	No effects identified at receptors location.
	Removal and reinstatement.		
	Noise levels during removal and reinstatement ( <b>Minor or Negligible, not significant</b> ). Vibration levels during removal and reinstatement	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptors location.
	(Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	

# Potential for combined effect.

- al, There is low potential for combined effects on receptor group WM2. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.
- al, There is low potential for combined effects on receptor group WM2. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.
- nd There is low potential for combined effects on receptor group WM2. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the removal and reinstatement phase.

There is low potential for combined effects on receptors at Ash View. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse interrelationship effect is likely during the construction phase.

There is low potential for combined effects on receptors at Ash View. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse interrelationship effect is likely during the operation phase.

There is low potential for combined effects on receptors at Ash View. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse interrelationship effect is likely during the removal and reinstatement phase.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	
Long Acre, Ash Rd, Lower	Construction			
<u>Hacheston</u> . <u>Figure 1.2</u> – WM4	No effects identified at receptor location	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptors location.	
<u>Noise and Vibration</u> – No corresponding residential receptor.		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).		
Air Quality – Receptor WM6.	Operation		-	
Landscape and Visual - No corresponding residential receptor. Outside zone of	No effects identified at receptor location	Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).	No effects identified at receptors location.	
visual influence.	Removal and reinstatement.			
	No effects identified at receptor location	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptors location.	
		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).		
Bottle and Glass Cottages,	Construction			
<u>Hacheston.</u> Figure 1.2 – WM5	Construction noise during all phases and periods of work ( <b>Minor or Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity ( <b>Minimal, neutral</b> , <b>not significant</b> ).	
Noise and Vibration – Receptor A.	Construction vibration ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements during construction (Negligible, not		
<u>Air Quality</u> – Receptor WM12.		significant).		
Landscape and Visual –	Operation			
Representative viewpoint 5 – Footpath. E-178/003/0 & Station Road. Receptors - Motorists, users of	Noise and vibration from operation of the proposed development ( <b>Negligible, not significant</b> ).	Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	(Minimal, neutral, not significant).	
nearby footpaths, residents along. Station Road.			Views of proposed lighting at night during operation ( <b>Moderate, adverse, not</b> significant).	
	Removal and Reinstatement.			
	Noise levels during removal and reinstatement ( <b>Minor or Negligible, not significant</b> ). Vibration levels during removal and reinstatement	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity during removal and reinstatement (Minimal neutral, not significant).	
	(Negligible, not significant).	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).		

Potential for combined effect.

There is no potential for combined effects on residents at Long Acre and so no additional significant adverse inter-relationship effect is likely during the construction phase.

There is no potential for combined effects on residents at Long Acre and so no additional significant adverse inter-relationship effect is likely during the operation phase.

There is no potential for combined effects on residents at Long Acre and so no additional significant adverse inter-relationship effect is likely during the removal and reinstatement phase.

al, There is a low potential for combined effects arising from noise and vibration and views of construction activity during construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the residents at Bottle and Glass Cottages during construction, and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects ns arising from noise and vibration and views of on construction activity and lighting during operation. Combined, these effects are unlikely to lead to an increased sense of ng ot disturbance for the residents at Bottle and Glass Cottages during operation, and so no additional significant adverse inter-relationship effect is likely.

nd There is a low potential for combined effects **ot** arising from noise and vibration and views of removal and reinstatement construction activity. Combined, these effects are unlikely to lead to an increased sense of disturbance for the residents at Bottle and Glass Cottages during removal and reinstatement, and so no additional significant adverse inter-relationship effect is likely.

Volume 10 Appendix 2B Assessment of Inter-relationship Effects |



# Table 2B.4: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the two village bypass

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Tinker Brook and Park Gate	Construction		
<u>Farm.</u> <u>Figure 1.2</u> – TVB2 TVB1 <u>Noise and Vibration</u> – Receptor 2. <u>Air Quality</u> – Receptor WM1	Noise and vibration during set-up, site clearance and restoration ( <b>Negligible, significant</b> ). Noise and vibration during construction ( <b>Minor</b> <b>adverse, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible</b> , not significant). Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible</b> , not significant).	Views of the construction activity (Slight, adverse, not significant).
Landscape and Visual – Representative viewpoint 6 - Users of Tinker Brook to the west of the site, within approximately 250m, and residents along it: (group 5).	Operation Daytime noise during construction of main development site (2028) ( <b>Moderate adverse</b> , <b>significant</b> ) Daytime noise during operation of main	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not</b>	Views of operation ( <b>Moderate, adverse, not</b> <b>significant</b> ). Views of proposed lighting at night during
3 (3 1 - /	development site (2034) (Minor adverse, not significant)		operation (Moderate, adverse, not significant).
The Red House, Main Road.	Construction	<u>.</u>	
<u>Figure 1.2</u> – TVB3 <u>Noise and Vibration</u> – Receptors 3, 4 and 5.	Noise and vibration during set-up, site clearance and restoration (Minor or Negligible, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of the construction of the proposed River Alde overbridge (Major-moderate, adverse, significant).
<u>Air Quality</u> – Receptor SX7 Landscape and Visual –		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
Representative viewpoint 7 -	Operation		
Pedestrians using the footways along the A12 and local residents along the A12 at Stratford St. Andrew (group 4).	Receptor 3 and 4 – during peak construction (2028) and operation c of main development site (2034) ( <b>Major beneficial, significant</b> ).	Effects on health from particulate matter generated from operation (Negligible to minor, beneficial, not significant).	Views of operation ( <b>Moderate</b> , adverse, not significant).
	Receptor 5 – noise during peak construction (2028) and operation (2034) of main development site ( <b>Negligible, not significant</b> )	Exhaust emissions from additional road vehicle movements during operation ( <b>Moderate</b> , <b>beneficial, not significant</b> ).	Views of proposed lighting at night during operation (Major-moderate, adverse, significant).
Timbers, Main Road.	Construction		
<u>Figure 1.2</u> – TVB4 <u>Noise and Vibration</u> – Receptors 6, 7, 8 and 9.	Noise and vibration during construction ( <b>Minor or Negligible, not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible</b> , not significant). Exhaust emissions from additional road vehicle	Views of construction (Major-moderate adverse, significant).
<u>Air Quality</u> – Receptor SX6	Operation	movements during construction ( <b>Negligible, not</b> significant).	

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# Potential for combined effect.

There is low potential for combined effects on receptors at Tinker Brook and Park Gate Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is high potential for combined effects on receptors at Tinker Brook and Park Gate Farm. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse interrelationship effect is likely during operation.

There is high potential for combined effects on receptors at The Red House. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so additional significant adverse inter-relationship effect is likely during construction.

There is a high potential for combined effects arising from air quality and views of proposed lighting at night during operation on receptors at The Red House. Combined, these effects are likely to lead to a higher sense of disturbance during operation, these effects are likely to be significant.

There is high potential for combined effects on receptors at Timbers, Main Road, combined these effects are likely to lead to a higher sense of disturbance during construction, and therefore are likely to be significant.





	Noise and Vibration.	Air Quality.	Landscape and Visual.
receptor group 4	Noise during peak construction (2028) and operation (2034) of main development site (Moderate beneficial, significant)	Effects on health from particulate matter generated from operation ( <b>Negligible to minor beneficial</b> , <b>not significant</b> ).	Views of operation ( <b>Moderate adverse, not</b> significant).
		Exhaust emissions from additional road vehicle movements during operation ( <b>Moderate, beneficial, not significant</b> ).	
The Street, Farnham.	Construction		
	Noise and vibration during set-up, site clearance and restoration ( <b>Minor or Negligible, not</b> significant)	Effects on health from particulate matter generated from construction activities ( <b>Minor, beneficial, not significant</b> ).	No effects identified at receptor location.
Receptors 20, 21, 22, 23, 24 and 25.		Exhaust emissions from additional road vehicle movements during construction (Negligible, not	
Air Quality – Receptor SX15		significant).	
<u>Lanuscape anu visuai</u> - no	Operation		
	Noise during peak construction (2028) ( <b>Beneficial,</b> significant)	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
d	Receptor 25 during construction of main development site (2028) ( <b>Major or Moderate</b> adverse, significant)	Exhaust emissions from additional road vehicle movements during operation ( <b>Moderate, beneficial, not significant</b> ).	
	Noise during operation of main development site (2034) ( <b>Major beneficial, significant)</b>		
si	Receptor 25 during operation of main development site (2034) ( <b>Minor adverse, not significant</b> )		
Hall Earnham	Construction		
Figure 1.2 – TVB6 and TVB7	Noise during construction ( <b>Minor adverse, not</b> significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction of the proposed Foxburrow Wood overbridge (Major- moderate adverse, significant).
	Vibration during construction (Negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction (Negligible, not	
<u>Air Quality</u> – Receptor SX9		significant).	
Lanuscape and visual –	Operation		
residents around the south- 2 east of Farnham and Farnham (	Daytime noise during operation (peak construction 2028 and operation 2034) of main development site ( <b>Major adverse, significant</b> ).	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ).	Views of the proposed Foxburrow Wood overbridge (Moderate adverse, not significant).
Hall (group 2).		Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	Views of proposed lighting at night during operation ( <b>Slight, adverse, not significant</b> ).
	Construction		

# Potential for combined effect.

There is a low potential for combined effects arising from air quality and views of operation during operation on receptors at Timbers, Main Road. Combined, these effects are unlikely to lead to a lower sense of disturbance during operation due to the beneficial effects arising during operation, although these effects are unlikely to be significant.

There is a low potential for combined effects arising from noise and vibration and air quality during construction on receptors at the Street. Combined, these effects are unlikely to lead to a lower sense of disturbance during operation due to the beneficial effects arising during construction, although these effects are unlikely to be significant.

There is a low potential for combined effects arising from noise and vibration and air quality during operation on receptors at the Street Combined, these effects are unlikely to lead to a lower sense of disturbance during operation due to the beneficial effects arising during operation, although these effects are unlikely to be significant.

There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity. Combined these effects are likely to lead to an increased sense of disturbance for the receptors at Hall Cottages and Farnham Hall during the construction phase and an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects arising from noise and vibration from operation and views of the bridge and road. Combined these effects are likely to lead to an increased sense of disturbance for the receptors at Hall Cottages and Farnham Hall during the operation phase and so an additional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Pond Barn Cottages, Farnham. Figure 1.2 – TVB8 Noise and Vibration – Receptor 12.	Noise during construction (Minor adverse, not significant). Vibration during construction (Negligible, not significant).	Effects on health from particulate matter generated from construction activities ( <b>Negligible</b> , <b>not</b> <b>significant</b> ). Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible</b> , <b>not</b> <b>significant</b> ).	Views of the construction activity ( <b>Moderate</b> , adverse, not significant).
	Operation	olgninount).	
<u>Air Quality</u> – Receptor SX8 <u>Landscape and Visual</u> – Representative viewpoint 5 – footpaths and local roads south of Farnham, as well as local residents along them (group 3).	Noise during operation (peak construction of main development site 2028) ( <b>Major adverse, significant</b> ).	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Moderate adverse, not</b> <b>significant</b> ). Views of proposed lighting at night during operation ( <b>Slight, adverse, not significant</b> ).
Farnham Hall Farmhouse.	Construction		
Figure 1.2 – TVB10 <u>Noise and Vibration</u> – Receptor 14.	Noise during construction (Minor adverse, not significant). Vibration during construction (Negligible, not	Effects on health from particulate matter generated from construction ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle	Views of construction of the proposed Foxburrow Wood overbridge ( <b>Major-</b> <b>moderate adverse, significant</b> ).
<u>Air Quality</u> – Receptor E23_T_1 to E23_T_17.	significant). Operation	movements during construction ( <b>Negligible, not</b> significant).	
Landscape and Visual – Users of footpaths and residents around the south- east of Farnham and Farnham Hall (group 2).	Noise during peak construction (2028) and operation (2034) of main development site ( <b>Major</b> <b>adverse, significant</b> )	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	Views of the proposed Foxburrow Wood overbridge ( <b>Moderate adverse, not</b> <b>significant</b> ). Views of proposed lighting at night during operation ( <b>Slight, adverse, not significant</b> ).
Farnham Street Farm.	Construction		
<u>Figure 1.2</u> – TVB12 <u>Noise and Vibration</u> – Receptor 17, 18, and 33. <u>Air Quality</u> – Receptor SX10.	significant). Vibration during construction (Negligible, not significant).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not</b> <b>significant</b> ). Exhaust emissions from additional road vehicle movements during construction ( <b>Moderate,</b> <b>adverse, not significant</b> ).	
Landscape and Visual – Representative viewpoint 2 –	Operation		
residents and visitors around Friday Street (group 1).	Noise during peak construction (2028) and operation (2034) of main development site ( <b>Major</b> <b>adverse, significant</b> )	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	Views of the proposed eastern roundabout during operation (Moderate, adverse, not significant). Views of proposed lighting at night during operation (Major-moderate, adverse, significant).
Roseniii Collages.	Construction		

Building better energy together

# Potential for combined effect.

There is low potential for combined effects on receptors at Pond Barn Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during the construction phase.

There is high potential for combined effects on receptors at Pond Barn Cottages. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse inter-relationship effect is likely during the operation phase.

There is high potential for combined effects on receptors at Farnham Hall Farmhouse. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse interrelationship effect is likely during the construction phase.

There is high potential for combined effects on receptors at Farnham Hall Farmhouse. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse interrelationship effect is likely during the operation phase.

There is a high potential for combined effects arising from noise and vibration and air quality from construction and views of construction activity. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors at Farnham Street Farm during the construction phase and an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects arising from noise and vibration from construction, air quality and views of construction activity. Combined, these effects are likely to lead to an increased sense of disturbance and so an additional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Figure 1.2 – TVB13	Noise and vibration during set-up, site clearance and restoration ( <b>Negligible, not significant</b> ).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of the construction of the proposed eastern roundabout (Major-moderate, adverse, significant).
<u>Noise and Vibration</u> – Receptor 19. <u>Air Quality</u> – Receptor SX10	Noise during construction (Minor, not significant) Vibration during construction (Negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction (Moderate, adverse, not significant).	
Landscape and Visual –	Operation		
Representative viewpoint 2 – residents and visitors around Friday Street (group 1).	Noise during peak construction of main development site and busiest day (2028) ( <b>Moderate or major adverse, significant</b> )	Effects on health from particulate matter generated from operation ( <b>Negligible</b> , <b>not significant</b> ). Exhaust emissions from additional road vehicle	Views of the proposed eastern roundabout during operation (Moderate, adverse, not significant).
	Noise during operation of main development site (2034) ( <b>Negligible, not significant</b> )	movements during operation ( <b>Negligible, not</b> significant).	Views of proposed lighting at night during operation ( <b>Major-moderate</b> , <b>adverse</b> , <b>significant</b> ).
Benhall Stock Cottages.	Construction		
Figure 1.2 – TVB11 Noise and Vibration –	Noise during site set-up (Negligible, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity (Slight adverse, not significant).
Receptors 32 and 16.	Vibration during site set-up (Moderate or <b>Minor</b> adverse, not significant)	Exhaust emissions from additional road vehicle	
<u>Air Quality</u> – Receptor SX5.	Noise and vibration during construction ( <b>Negligible</b> , <b>not significant</b> )	movements during construction (Negligible, not significant).	
Landscape and Visual – Visual receptor group 5.	Operation		
	Noise during peak construction (2028) and operation of main development site (2034) ( <b>Beneficial, significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of operation (Moderate adverse, not significant).
		Exhaust emissions from additional road vehicle movements during construction ( <b>Moderate</b> , <b>beneficial</b> , not significant).	

## Potential for combined effect.

There is a high potential for combined effects arising from noise and vibration and air quality from construction, and views of construction. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at Rosehill Cottages during the construction phase and an additional significant adverse interrelationship is likely.

There is a high potential for combined effects arising from noise and vibration from operation, and views of the site. Combined, these effects are likely to lead to an increased sense of disturbance for receptors at Rosehill Cottages during the operation phase and so an additional significant adverse inter-relationship is likely.

There is low potential for combined effects on receptors at Benhall Stock Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely.

There is low potential for combined effects arising from noise and vibration and air quality from construction. Combined, these effects are not likely to lead to an increased sense of disturbance for receptors at Benhall Stock Cottages during the operation phase so no additional significant adverse inter-relationship is likely



Table 2B.5: Inter-relationsh	ip effects on residential receptor	s, commercial facilities, communit	ty facilities and schools from activit	y at the Sizewell lin
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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Kelsale Lodge Cottages.	Construction		
Figure 1.2 – SLR2 Noise and Vibration – Receptor	Noise during preparatory works, restoration and main construction phase ( <b>negligible, not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of the construction of the proposed A12 roundabout and road and temporary contractor compounds (Major-moderate, adverse,
29. <u>Air Quality</u> – Receptor YX4.	Vibration during preparatory works and restoration (minor adverse, not significant)	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	significant).
<u>Landscape and Visual</u> – Users of public footpaths and local residents west of the A12 for	Vibration during main construction phase (negligible, not significant) Operation		
one field (between Kelsale Lodge and Long Wood) (group 2).	Operational noise during peak construction year (2028) and first year of operation of the main development site (negligible, not significant)	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ).	Views of the proposed A12 roundabout (Slight, adverse, not significant).
		Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	Views of proposed lighting at night during operation ( <b>Moderate adverse, not significant</b> ).
Fir Tree Farm.	Construction		
<u>Figure 1.2</u> – SLR3	Noise during preparatory works, restoration and main construction phase (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of the construction of the proposed A12 roundabout and road and temporary contractor compounds ( <b>Major-moderate to moderate</b> ,
Noise and Vibration – Receptor 1.			adverse, significant).
<u>Air Quality</u> – Receptor YX9.	Vibration during preparatory works and restoration (minor adverse, not significant)	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
Landscape and Visual – Users of public footpaths and local residents between the	Vibration during main construction phase (negligible, not significant) Operation		
boundary of Rookery Park to the north, the East Suffolk Line to the east, Town Farm Lane to	Operational noise during peak construction year (2028) of the main development site (moderate adverse, significant)	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ).	Views of the proposed A12 roundabout (Moderate, adverse, not significant).
the south and the A12 to the west (group 1).	Operational noise during first year of operation of the main development site (negligible, not significant)	Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	Views of proposed lighting at night during operation ( <b>Major-moderate</b> , <b>adverse</b> , <b>significant</b> ).
The Red House Farm and	Construction		
Rosetta. Figure 1.2 – SLR 1 and SLR 4.	Receptors 30 and 32 - Noise during preparatory works, restoration and main construction phase (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of the construction of the proposed A12 roundabout and road and temporary contractor compounds (Major-moderate, adverse,
Noise and Vibration – Receptor 30, 31, 32.	Receptor 31 - Noise during preparatory works, restoration and main construction phase (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	significant).
<u>Air Quality</u> – Receptor SX1. <u>Landscape and Visual</u> – Representative viewpoint 9 and group 2.	Receptors 30 and 32 – Vibration during preparatory works, restoration and main construction ( <b>minor</b> adverse, not significant)		

# ink road

# Potential for combined effect.

There is high potential for combined effects on receptors at Kelsale Lodge Cottages. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse interrelationship effect is likely during construction.

There is low potential for combined effects on receptors at Kelsale Lodge Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is a high potential for combined effects from noise and vibration and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Fir Tree Farm during the construction phase and so an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects from noise and vibration and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at Fir Tree Farm during operation and so an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects from noise and vibration and views of construction. Combined, these effects are likely to lead to a slightly increased sense of disturbance for receptors at The Red House Farm and Rosetta during the construction phase and so an additional significant adverse interrelationship effect is likely.



(2028) of the main development site (minor dverse, not significant)       Form operation (Negligible, not significant)       roundabout and read and temporary contracts         B1122 East of Yoxford.       Construction       Construction       Significant)       construction phase (negligible, not significant)       roundabout and read and temporary contracts         B1122 East of Yoxford.       Construction       Construction       Migor moderate, adverse, adverse, adverse, adverse, not significant)       No effects identified at receptor location.         B1122 East of Yoxford.       Construction       Noise and Vibration - Receptor       No effects identified at receptor location.       No effects identified at receptor location.         Air Quality - Receptor YX6.       Vibration during preparatory works, restoration phase (negligible, not significant)       Effects on health from particulate matter generated from construction additional road vehicle significant).       No effects identified at receptor location.         Corresponding visual receptor YX6.       Vibration during main construction phase (ninor adverse, not significant)       Effects on health from particulate matter generated from operation (Negligible, not significant)       No effects identified at receptor location.         Vibration during main construction phase (ninor adverse, not significant)       Effects on health from particulate matter generated from operation (Negligible, not significant)       No effects identified at receptor location.         Vibration during preparatory works, restoration and file not significant)<	Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Operational noise during peak construction year (2028) of the main development site (minor adverse, not significant).         Mease of the construction of the proposal AL (2028) of the main development site (minor adverse, not significant).         Mease of the construction of the proposal AL (adverse, not significant).           E1122 East of Yoxford, Noise and Vibration – Receptor 70.         Construction         Construction main development site (negligible, not significant).         Effects on health from particulate matter generated main development site (negligible, not significant).         Noise during preparatory works, restoration main construction phase (negligible, not significant).         Noise during preparatory works, restoration main construction phase (negligible, not significant).         Noise during preparatory works, restoration main construction phase (negligible, not significant).         Noise during reparatory works, restoration main construction phase (negligible, not significant).         Noise during preparatory works, restoration main construction phase (negligible, not significant).         Noise during reparatory works, restoration main construction phase (negligible, not significant).         Noise during reparatory works, restoration main construction phase (nonstruction phase (negligible, not significant).         Noise during reparatory works, restoration of the movements during construction (Negligible, not significant).         No effects identified at receptor location.           Value Cottage and Oakfied 19.         Operational noise during first year of operation of the main construction phase (ninor adverse, not significant).         Effects on health from particulate matter generated from construction (Negligible, not significant).         No e		restoration and main construction (negligible, not		
(2028) of the main development site (minor adverse, not significant).       from operation (Negligible, not significant).       roundatout and read and temporary contracts, adverse significant).         E1122 East of Yoxford.       Construction       Construction       Significant).       Significant).       Significant).         E1122 East of Yoxford.       Construction       Noise during preparatory works, restoration and main construction pase (negligible, not significant).       Effects on health from particulate matter generated from construction (Negligible, not significant).       No effects identified at receptor location.         Air Quality – Receptor YX6.       (infor diverse, not significant)       Ubration during preparatory works and restoration induces on solution graph additional road vehicle significant).       No effects identified at receptor location.         Vibration during preparatory works, restoration influence.       Operational noise during preparatory works and restoration influences.       Effects on health from particulate matter generated from construction (Negligible, not significant).       No effects identified at receptor location.         Operational noise during preparatory works, restoration of the main development site (minor adverse, not significant).       Effects on health from particulate matter generated from construction (Negligible, not significant).       No effects identified at receptor location.         Vale Cottage and Oakfelf House       Noise during preparatory works, restoration and significant).       Effects on health from particulate matter generated from construction (Negligible, not s		Operation	l	I
Noise and Vibration – Receptor 25.         Noise during preparatory works, restoration and significant)         Effects on health from particulate matter generated from construction activities (Negligible, not significant)         No effects identified at receptor location.           Air Quality – Receptor YX6.         Ubration during preparatory works and restoration corresponding visual – No corresponding visual – No corresponding visual receptor group. Outside zone of visual influence.         Vibration during main construction phase (negligible, not significant)         Effects on health from particulate matter generated more math soluring construction (Negligible, not significant).         No effects identified at receptor location.           Vibration during main construction proup. Outside zone of visual influence.         Vibration during main construction phase (2028) of the main development site (minor adverse, not significant)         Effects on health from particulate matter generated from construction (Negligible, not significant).         No effects identified at receptor location.           Vale         Cotage and Oakfied         Construction main construction phase (minor adverse, not significant).         Effects on health from particulate matter generated from construction activities (Negligible, not significant).         No effects identified at receptor location.           Vale         Cotage and Vibration – Receptor 19.         Construction main construction adverse, restoration and main construction (negligible, not significant).         Effects on health from particulate matter generated from construction (Negligible, not significant).         Views of construction (Major-moderat from construction (Neglig		<ul><li>(2028) of the main development site (minor adverse, not significant)</li><li>Operational noise during first year of operation of the</li></ul>	from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not</b>	
Noise and Vibration - Receptor YX6.         main construction phase (negligible, not significant)         from construction activities (Negligible, not significant).           Vibration during preparatory works and restoration (ninor adverse, not significant)         Vibration during preparatory works and restoration (ninor adverse, not significant)         Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).           Vibration during preparatory works, restoration activities (Negligible, not significant).         Operation         No effects identified at receptor location.           Vale         Cottage and Visual – No construction preparatory works, restoration adverse, not significant).         Effects on health from particulate matter generated from operation (Negligible, not significant).         No effects identified at receptor location.           Vale         Cottage and Oakfiel House.         No selfcets identified at receptor location adverse, not significant).         Effects on health from particulate matter generated from construction activities (Negligible, not significant).         No effects identified at receptor location.           Vale         Cottage and Visual – Visual House.         No selfcets identified at receptor location.         Effects on health from particulate matter generated from construction activities (Negligible, not significant).         No effects identified at receptor location.           Vale         Cottage and Visual – Visual House.         Noise during preparatory works, restoration and main construction fregligible, not significant).         Effects on health	B1122 East of Yoxford.	Construction		
Landscape and Visual – No       Working or diverse, not significant)         Corresponding visual receptor group. Outside zone of visual influence.       No effects identified at receptor location.         Operational noise during preparatory works, restoration and development site (medigible, not significant).       Effects on health from particulate matter generated from operation (Negligible, not significant).       No effects identified at receptor location.         Vale       Cottage and Oakfied       Construction phase (minor adverse, not significant).       Effects on health from particulate matter generated from operation (Negligible, not significant).       No effects identified at receptor location.         Vale       Cottage and Oakfied       Construction phase (minor adverse, not significant).       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of construction (Major-moderat significant).         Vale       Cottage and Oakfied       Construction phase (minor adverse, not significant).       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of construction (Major-moderat adverse, significant).         Noise during preparatory works, restoration and main construction (negligible, not significant)       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of construction (Major-moderat significant).         Air Quality – Receptor YX5.       Operational noise during preak construction year (Doperational noise during peak construction year (Doperatio		main construction phase (negligible, not	from construction activities (Negligible, not	No effects identified at receptor location.
group. Outside zone of visual influence.       Visual outing man construction prase (negligible, not significant)       Prase         Operational noise during peak construction year (2028) of the main development site (minor adverse, not significant)       Effects on health from particulate matter generated from operation (Negligible, not significant)       No effects identified at receptor location.         Vale       Operational noise during first year of operation of the main development site (negligible, not significant)       Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).       No effects identified at receptor location.         Vale       Cottage and Oakfield       Onsise during preparatory works, restoration and main construction phase (minor adverse, not significant)       Effects on health from particulate matter generated from construction activities (Negligible, not significant).       Views of construction (Major-moderat adverse, significant).         Air Quality – Receptor YX5.       Image during preparatory works, restoration and main construction (negligible, not significant).       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of operation (Moderate, adverse, no significant).         Operational noise during peak construction year receptor group 3.       Operational noise during peak construction year (2028) and first year of operation of the main development site (major adverse, significant).       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of operation (Moderate, adverse, no significant). </td <td>Landscape and Visual – No</td> <td>(minor adverse, not significant)</td> <td>movements during construction (Negligible, not</td> <td></td>	Landscape and Visual – No	(minor adverse, not significant)	movements during construction (Negligible, not	
(2028) of the main development site (minor adverse, not significant).       from operation (Negligible, not significant).         Vale       Cottage and Oakfield       Construction         House.       Construction       Significant).         Figure 1.2 – SLR5 and SLR6       Noise during preparatory works, restoration and main construction phase (minor adverse, not significant).       Effects on health from particulate matter generated from construction activities (Negligible, not significant).       Views of construction (Major-moderate from construction activities (Negligible, not significant).         Noise and Vibration – Receptor 19.       Vibration during preparatory works, restoration and main construction (negligible, not significant).       Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).         Air Quality – Receptor YX5.       Operation       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of operation (Moderate, adverse, not significant).         Operation       Operation       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of operation (Moderate, adverse, not significant).         Views of proposed lighting at night durin operation (Moderate, adverse, significant).       Exhaust emissions from additional road vehicle from operation (Moderate, adverse, not significant).         Air Quality – Visual receptor group 3.       Operation loise during peak construction year of operation of the main development site (major adverse,	group. Outside zone of visual	(negligible, not significant)		
ValeConstructionExhaust emissions from additional road vehicle movements during operation (Negligible, not significant)Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant)ValeCottage and Oakfield House.ConstructionConstructionSignificant)Significant)Noise during preparatory works, restoration and significant)Noise during preparatory works, restoration and main construction phase (minor adverse, not significant)Effects on health from particulate matter generated from construction activities (Negligible, not significant).Views of construction (Major-moderate adverse, significant).Noise and Vibration – Receptor 19.Vibration during preparatory works, restoration and main construction (negligible, not significant)Effects on health from particulate matter generated from construction (Negligible, not significant).Views of construction (Major-moderate adverse, significant).Air Quality – Receptor YX5.Operational noise during peak construction year (2028) and first year of operation of the main development site (major adverse, significant)Effects on health from particulate matter generated from operation (Negligible, not significant).Views of operation (Moderate, adverse, not significant).Views of proposed lighting at night durin operation (Moderate, adverse, significant).Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).Views of proposed lighting at night durin operation (Moderate, adverse, not significant).Views of proposed lighting at night durin operation (Moderate, adverse, not significant).Views of propo		(2028) of the main development site (minor		No effects identified at receptor location.
House.       Noise during preparatory works, restoration and main construction phase (minor adverse, not significant)       Effects on health from particulate matter generated from construction activities (Negligible, not significant).       Views of construction (Major-moderate adverse, significant).         Noise and Vibration – Receptor 19.       Vibration during preparatory works, restoration and main construction (negligible, not significant)       Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).       Views of operation (Major-moderate adverse, significant).         Air Quality – Receptor YX5.       Operation       Operation       Effects on health from particulate matter generated from construction (Negligible, not significant).       Views of operation (Moderate, adverse, not significant).         Operation       Operational noise during preparatory during preparatory during preparatory during preparatory works, restoration and main construction (negligible, not significant).       Effects on health from particulate matter generated from construction (Negligible, not significant).       Views of operation (Moderate, adverse, not significant).         Air Quality – Receptor YX5.       Operational noise during peak construction year (2028) and first year of operation of the main development site (major adverse, significant).       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of proposed lighting at night durin operation (Moderate, adverse, not significant).         Views of proposed lighting at night durin operation (Moderate, adverse, not significant).       Significant). <td></td> <td>Operational noise during first year of operation of the main development site (<b>negligible, not significant</b>)</td> <td>movements during operation (Negligible, not</td> <td></td>		Operational noise during first year of operation of the main development site ( <b>negligible, not significant</b> )	movements during operation (Negligible, not	
Figure 1.2 – SLR5 and SLR6       Noise during preparatory works, restoration and isignificant)       Effects on freatmention particulate matter generated isignificant).       Views of construction (wajor-moderate adverse, not significant).         Noise and Vibration – Receptor 19.       Vibration during preparatory works, restoration and main construction (negligible, not significant)       Exhaust emissions from additional road vehicle movements during construction (Negligible, not significant).       Air Quality – Receptor YX5.         Landscape and Visual – Visual receptor group 3.       Operation       Operational noise during peak construction year (2028) and first year of operation of the main development site (major adverse, significant)       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of operation (Moderate, adverse, not significant).         Views of proposed lighting at night durin overments during operation (Negligible, not significant).       Views of proposed lighting at night durin overments during operation (Negligible, not significant).       Views of proposed lighting at night durin overments during operation (Negligible, not significant).				
19.       Air Quality – Receptor YX5.         Landscape and Visual – Visual receptor group 3.       Operational noise during peak construction year (2028) and first year of operation of the main development site (major adverse, significant)       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of operation (Moderate, adverse, not significant).         Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).       Views of operation (Moderate, adverse, not significant).         Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).       Views of proposed lighting at night durin operation (Moderate, adverse, not significant).		main construction phase (minor adverse, not	from construction activities (Negligible, not	
Air Quality       Receptor YXS.         Landscape and Visual – Visual receptor group 3.       Operational noise during peak construction year (2028) and first year of operation of the main development site (major adverse, significant)       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of operation (Moderate, adverse, not significant).         Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).       Views of proposed lighting at night durin operation (Moderate, adverse, not significant).	19.		movements during construction (Negligible, not	
Landscape and Visual – Visual receptor group 3.       Operational noise during peak construction year (2028) and first year of operation of the main development site (major adverse, significant).       Effects on health from particulate matter generated from operation (Negligible, not significant).       Views of operation (Moderate, adverse, not significant).         Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant).       Views of proposed lighting at night durin operation (Moderate, adverse, not significant).	<u>Air Quality</u> – Receptor YX5.			
(2028) and first year of operation of the main development site (major adverse, significant) Exhaust emissions from additional road vehicle movements during operation (Negligible, not significant). Significant). Significant). Significant).				
movements during operation (Negligible, not significant). (Moderate, adverse, not significant).	receptor group 3.	(2028) and first year of operation of the main	from operation ( <b>Negligible, not significant</b> ).	
Construction			movements during operation (Negligible, not	
		Construction	1	1

Potential for combined effect.

There is a high potential for combined effects arising from noise and vibration and air quality during operation. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at The Red House Farm and Rosetta during operation, and so an additional significant adverse inter-relationship effect is likely.

There is low potential for combined effects on receptors at B1122 East of Yoxford. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is low potential for combined effects on receptors at B1122 East of Yoxford. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is a high potential for combined effects arising from noise and vibration and, views of construction and air quality during construction. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at Vale Cottage and Oakfield House during construction, and so an additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects arising from noise and vibration and, views of lighting and air quality during operation. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at Vale Cottage and Oakfield House during operation, and so an additional significant adverse inter-relationship effect is likely.

# Volume 10 Appendix 2B Assessment of Inter-relationship Effects |



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Valley Farm House, Annesons Cottage and Coronation Cottages.Figure 1.2– SLR11 and SLR12.Noise and Vibration – Receptor 10, 11, 20, 21 and 22.Air Quality – Receptor YX7.	Noise during preparatory works, restoration and main construction phase ( <b>minor adverse, not</b> <b>significant</b> ) Receptors 10, 20 and 22 – Vibration during preparatory works, restoration and main construction ( <b>negligible, not significant</b> ) Receptors 11 and 21 - during preparatory works, restoration and main construction ( <b>minor adverse,</b> <b>not significant</b> )	significant).	Views of construction activity ( <b>Major-</b> moderate, adverse, significant).
	Operation		
Landscape and Visual – Representative viewpoint 5 and group 4.	Receptor 10 - Operational noise during peak construction year (2028) and first year of operation of the main development site (minor beneficial, not significant) Receptor 11 - Operational noise during peak construction year (2028) (negligible, not significant) Receptor 11 - Operational noise during first year of operation of the main development site (moderate beneficial, significant) Receptor 20 - Operational noise during peak construction year (2028) of the main development site (major adverse, significant) Receptor 20 - Operational noise during first year of operation of the main development site (moderate adverse, significant) Receptors 21 and 22 - Operational noise during peak construction year (2028) of the main development site (minor beneficial, not significant) Receptors 21 and 22 - Operational noise during peak construction year (2028) of the main development site (minor beneficial, not significant) Receptors 21 and 22 - Operational noise during first year of operation of the main development site	Effects on health from particulate matter generated from operation ( <b>Negligible</b> , <b>not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible</b> , <b>not significant</b> ).	Views of operation (Moderate, adverse, not significant). Views of proposed lighting at night during operation (Moderate, adverse, not significant).
	(moderate beneficial, significant)		
Forge Cottage and Walnut Cottage.	Construction		
Figure 1.2 – SLR14 and SLR15	Receptor 15 - Noise during preparatory works, restoration and main construction phase ( <b>minor adverse, not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity ( <b>Major-</b> moderate, adverse, significant).
Noise and Vibration – Receptors 15, 16 and 28. <u>Air Quality</u> – Receptors LE5 and LE6.	Receptors 16 and 28 - Noise during preparatory works, restoration and main construction phase ( <b>negligible, not significant</b> )	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not</b> <b>significant</b> ).	

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## Potential for combined effect.

There is a high potential for combined effects arising from noise and vibration and, views of construction and air quality during construction. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at Valley Farm House, Annesons Cottage and Coronation Cottages during construction, and so an additional significant adverse interrelationship effect is likely.

There is a high potential for combined effects arising from noise and vibration and, views of construction and air quality during operation. Combined, these effects are likely to lead to a sense of increased disturbance on receptors at Valley Farm House, Annesons Cottage and Coronation Cottages during construction, and so an additional significant adverse interrelationship effect is likely.

There is a high potential for combined effects arising from noise and vibration from construction and views of construction activity. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors at Forge Cottage and Walnut Cottage during the construction phase and an additional significant adverse inter-relationship effect is likely and an additional significant adverse inter-relationship effect is likely.

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Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Landscape and Visual – Representative viewpoint 1 and group 7.	Vibration during preparatory works, restoration and main construction phase (negligible, not significant) Operation		
	Receptors 15 and 16 - Operational noise during peak construction year (2028) (major adverse, significant) Receptors 15 and 16 - Operational noise during first year of operation of the main development site (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities (Negligible, not significant). Exhaust emissions from additional road vehicle movements during construction (Negligible (LE5) to minor beneficial (average and busiest day)	Views of operation ( <b>Moderate, adverse, not</b> significant).
	Receptor 28 - Operational noise during peak construction year (2028) and first year of operation of the main development site (major beneficial, significant)	(LE6), not significant).	
The Granary and Theberton Grange.	Construction		1
<u>Figure 1.2</u> – SLR 17	Noise during preparatory works, restoration and main construction phase (minor adverse, not significant	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
<u>Noise and Vibration</u> – Receptor 17 and 38. <u>Air Quality</u> – Receptor LE4.	Vibration during preparatory works, restoration and main construction phase (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
Landscape and Visual – no	Operation		
corresponding visual receptor group. Outside zone of visual influence.	Operational noise during peak construction year (2028) (major adverse, significant)	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
	Receptor 17 - Operational noise during first year of operation of the main development site (moderate adverse, significant)	Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	
	Receptor 38 - Operational noise during first year of operation of the main development site (negligible, not significant)		

# Table 2B.6: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the Yoxford roundabout and other highway improvements

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
High Street, Cavan Cottage,	Construction		
and surrounding properties. Figure 1.3 – YOX1 & YOX7	Noise from roundabout site preparation works, main construction works and vibration during main construction works ( <b>negligible, not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	
<u>Noise and Vibration</u> – Receptor 10, 11, 12, 13.	Noise and vibration of construction of A12/A144 junction improvement works (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	

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Potential for combined effect.

There is a high potential for combined effects arising from noise and vibration from operation and views of the operational road. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors at Forge Cottage and Walnut Cottage during the operation phase and so an additional significant adverse inter-relationship effect is likely.

There is low potential for combined effects on receptors at The Granary and Theberton Grange. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is high potential for combined effects on receptors at The Granary and Theberton Grange. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors and so an additional significant adverse inter-relationship effect is likely during operation.

# Potential for combined effect.

There is a low potential for combined effects arising from noise and vibration and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at High Street, Cavan Cottage, and surrounding properties



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
<u>Air Quality</u> – Receptors YX2.			
Landscape and Visual – Representative viewpoint R4.	Operation		
	Noise from the operation of the road in 2028 and 2028 busiest period ( <b>negligible</b> , <b>not significant</b> ) Noise during operation in 2034 ( <b>negligible</b> , <b>not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not</b> <b>significant</b> ). Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not</b> <b>significant</b> ).	Change to channelled view towards existing A12/B1122 junction ( <b>Slight, adverse, not</b> <b>significant</b> ). Visibility of proposed lighting at night (Minimal neutral, <b>not significant</b> ).
Brook Street, Woodland Cottages, White House / Lodge.	Construction Noise from roundabout site preparation works, main construction works and vibration during main construction works ( <b>negligible</b> , <b>not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity (Moderate adverse, not significant).
<u>Figure 1.3</u> – YOX2 <u>Noise and Vibration</u> – Receptor 1 and 4.	Receptor 4 - Noise and vibration of construction of A12/A144 junction improvement works (negligible, not significant)	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
<u>Air Quality</u> – YX3. <u>Landscape and Visual</u> – Representative Viewpoint 3.	Receptor 1 - Noise and vibration of construction of A12/A144 junction improvement works (minor adverse, not significant) Operation		
	Noise from the operation of the road in 2028 and 2028 busiest period ( <b>negligible</b> , <b>not significant</b> ) Noise during operation in 2034 ( <b>negligible</b> , <b>not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible</b> , <b>not</b> <b>significant</b> ). Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible</b> , <b>not</b> <b>significant</b> ).	Visibility of proposed Yoxford roundabout and associated infrastructure ( <b>Moderate adverse</b> , <b>not significant</b> ). Visibility of proposed lighting at night (Slight adverse, <b>not significant</b> ).
Rookery Lodge, Pinn's Piece	Construction		
<u>and Sans Souci</u> . <u>Figure 1.3</u> – YOX3 <u>Noise and Vibration</u> – Receptor 5, 6, 7. <u>Air Quality</u> – YX18.	Receptors 6 and 7 - Noise from roundabout site preparation works, main construction works and vibration during main construction works ( <b>negligible, not significant</b> ) Receptor 5 - Noise from roundabout site preparation works ( <b>negligible, not significant</b> ),	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not</b> <b>significant</b> ). Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not</b> <b>significant</b> ).	Views of construction activity (Moderate adverse, not significant).
Landscape and Visual – Representative Viewpoint 3.	Receptor 5 – noise from roundabout main construction works ( <b>minor adverse, not significant</b> )		
	Receptor 5 – Vibration during construction of roundabout ( <b>negligible, not significant)</b>		

# Potential for combined effect.

during the construction phase and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration from operation and views of the roundabout. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at High Street, Cavan Cottage, and surrounding properties during operation and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Brook Street, Woodland Cottages and White House / Lodge during the construction phase and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Brook Street, Woodland Cottages and White House / Lodge during operation and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Rookery Lodge, Pinn's Piece and Sans Souci during the construction phase and so no additional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
	Noise and vibration of construction of A12/A144 junction improvement works (negligible, not significant)		
	Operation	1	
	Noise from the operation of the road in 2028 and 2028 busiest period ( <b>negligible</b> , <b>not significant</b> ) Noise during operation in 2034 ( <b>negligible</b> , <b>not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible</b> , <b>not</b> <b>significant</b> ). Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible</b> , <b>not</b> <b>significant</b> ).	Visibility of proposed Yoxford roundabout and associated infrastructure ( <b>moderate adverse</b> , <b>not significant</b> ). Visibility of proposed lighting at night (Slight adverse, <b>not significant</b> ).
Sunnypatch, Middleton Road,	Construction		
TheOldBarnRookeryCottages and the Barn.Figure 1.3– YOX4 and YOX5.	Receptor 14 - Noise from roundabout site preparation works, main construction works ( <b>negligible, not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity (Moderate adverse, not significant).
Noise and Vibration – Receptor 14, 15, 8 and 9.	Receptors 15, 8 and 9 - Noise from roundabout site preparation works ( <b>minor adverse, not significant</b> ),	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
<u>Air Quality</u> – YX6 and YX19. <u>Landscape and Visual</u> – Representative viewpoint 2.	Receptors 15, 8 and 9 – noise from roundabout main construction works (minor adverse, not significant)		
	Receptor 9 – Vibration during compaction of temporary constructors' compound (moderate adverse, not significant due to duration)		
	Receptor 8 – Vibration during earthworks of roundabout (minor adverse, not significant)		
	Vibration during all phases of construction ( <b>negligible, not significant</b> )		
	Noise and vibration of construction of A12/A144 junction improvement works (negligible, not significant)		
	Operation	1	1
	Noise from the operation of the road in 2028 and 2028 busiest period (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Visibility of proposed Yoxford roundabout and associated infrastructure (Moderate adverse, not significant).
	Noise during operation in 2034 ( <b>negligible, not</b> significant)	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	Visibility of proposed lighting at night (Slight adverse, not significant).

Potential for combined effect.

There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Rookery Lodge, Pinn's Piece and Sans Souci during operation and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Sunnypatch, Middleton Road, The Old Barn Rookery Cottages and the Barn during the construction phase and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Sunnypatch, Middleton Road, The Old Barn Rookery Cottages and the Barn operation and so no additional significant adverse inter-relationship effect is likely.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Cockfield Hall Lodge and	Construction		
surrounding properties.	Noise from roundabout site preparation works	Effects on health from particulate matter generated	, , , , , , , , , , , , , , , , , , , ,
Figure 1.3 – YOX6	(minor adverse, not significant), Vibration during earthworks of roundabout (minor	from construction activities ( <b>Negligible, not significant</b> ).	vegetation ( <b>Minimal, neutral, not</b> significant).
Noise and Vibration – 23	adverse, not significant)	Exhaust emissions from additional road vehicle	
<u>Air Quality</u> – Receptor YX20.	Noise and vibration of construction of A12/A144 junction improvement works ( <b>negligible</b> , <b>not</b>	movements during construction ( <b>Negligible, not</b> significant).	
Landscape and Visual – Representative Viewpoint 1.	significant) Operation		
	Noise from the operation of the road in 2028 and 2028 busiest period (minor adverse, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Visibility of tops of proposed lighting columns and glimpses of road infrastructure ( <b>Slight</b> <b>adverse</b> , <b>not significant</b> ).
	Noise during operation in 2034 ( <b>negligible, not</b> significant)	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	Visibility of proposed lighting at night (Slight adverse, not significant).

# Table 2B.7: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the freight management facility

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	
1 and 2 Keepers Cottages.	Construction			
Figure 1.2 – FMF3	Construction noise (no higher than <b>minor adverse</b> , <b>not significant</b> ).	Effects on amenity or health from particulate matter generated from construction activities ( <b>Negligible</b> , <b>not significant</b> ).	Views of construction activity, (Major- moderate, adverse significant).	
Noise and Vibration – 1 and 2 Keepers Cottages.	Construction vibration ( <b>negligible, not significant</b> ).	Exhaust emissions from additional road vehicle		
<u>Air Quality</u> – Receptors BK8 and BK8c.		movements during construction ( <b>negligible</b> , <b>not significant</b> ).		
Landscape and Visual –				
Representative Viewpoint 1.	Operation			
	Noise and vibration from operation of the proposed development ( <b>negligible, not significant</b> ).	Effects on health from particulate matter generated from operation ( <b>Negligible</b> , <b>not significant</b> ). Exhaust emissions from additional road vehicle	Views of the freight management facility (Moderate to slight adverse, not significant).	
		movements during operation ( <b>negligible</b> , <b>not significant</b> ).	Visibility of proposed lighting at night. ( <b>Negligible neutral,</b> not significant).	
	Removal and Reinstatement	<u> </u>		
	Noise during removal and reinstatement (no higher than <b>minor adverse, not significant</b> ).	Effects on amenity or health from particulate matter generated from construction activities ( <b>Negligible</b> , <b>not significant</b> ).	Views of construction activity, (Major- moderate, adverse significant).	
	Vibration from removal and reinstatement ( <b>negligible, not significant</b> ).			

# Potential for combined effect.

There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Cockfield Hall Lodge during the construction phase and so no additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration, air quality and views of the construction. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at Cockfield Hall Lodge during operation and so no additional significant adverse inter-relationship effect is likely.

## Potential for combined effect.

There is a high potential for combined effects arising from noise and vibration from construction, air quality and views of construction activity. Combined, these effects are likely to lead to an increased sense of disturbance for the receptors at 1 and 2 Keepers Cottage during the construction phase and an additional significant adverse inter-relationship effect is likely and so an additional significant adverse inter-relationship effect is likely.

There is a low potential for combined effects arising from noise and vibration, air quality and views of the operational freight management facility. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors at 1 and 2 Keepers Cottage during operation and so no additional significant adverse inter-relationship effect is likely.

There is a high potential for combined effects arising from noise and vibration from construction, air quality and views of construction activity. Combined, these effects are likely to lead to an increased sense of



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
		Exhaust emissions from additional road vehicle movements during construction ( <b>negligible, not significant</b> ).	
Property Adjacent Walk Barn.	Construction		
<u>Figure 1.2</u> – FMF2 <u>Noise and Vibration</u> – No corresponding residential receptor. <u>Air Quality</u> – BK 4	No effects identified at receptor location.	Effects on amenity or health from particulate matter generated from construction activities ( <b>Negligible</b> , <b>not significant</b> ). Exhaust emissions from additional road vehicle movements during construction ( <b>negligible</b> , <b>not</b> <b>significant</b> ).	No effects identified at receptor location.
Landscape and Visual – No	Operation		No offerstal identified at measurements and a stick
corresponding visual receptor group.	No effects identified at receptor location.	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>negligible, not</b> <b>significant</b> ).	No effects identified at receptor location.
	Removal and reinstatement.	/ •••••••••••/·	
	No effects identified at receptor location.	Effects on amenity or health from particulate matter generated from construction activities ( <b>Negligible</b> , <b>not significant</b> ). Exhaust emissions from additional road vehicle	No effects identified at receptor location.
		movements during construction ( <b>negligible</b> , <b>not</b> significant).	
Woodland View.	Construction		
<u>Figure 1.2</u> – FMF1 <u>Noise and Vibration</u> – No corresponding residential	No effects identified at receptor location.	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
receptor.		Exhaust emissions from additional road vehicle movements during construction ( <b>negligible, not</b> significant).	
<u>Air Quality</u> – Receptor BK 6.	Operation		
Landscape and Visual – No corresponding visual receptor group.	No effects identified at receptor location.	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
		Exhaust emissions from additional road vehicle movements during operation ( <b>negligible, not significant</b> ).	
	Removal and reinstatement.		
	No effects identified at receptor location.	Effects on health from particulate matter generated from removal and reinstatement activities ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.

# Potential for combined effect.

disturbance for the receptors at 1 and 2 Keepers Cottage during the construction phase and an additional significant adverse inter-relationship effect is likely and so an additional significant adverse inter-relationship effect is likely.

There is no potential for combined effects on receptors at Property Adjacent Walk Barn and so no additional significant adverse interrelationship effect is likely during construction.

There is no potential for combined effects on receptors at Property Adjacent Walk Barn and so no additional significant adverse interrelationship effect is likely during operation.

There is no potential for combined effects on receptors at Property Adjacent Walk Barn and so no additional significant adverse interrelationship effect is likely during removal and reinstatement.

There is no potential for combined effects on receptors at Woodland View and so no additional significant adverse inter-relationship effect is likely during construction.

There is no potential for combined effects on receptors at Woodland View and so no additional significant adverse inter-relationship effect is likely during operation.

There is no potential for combined effects on receptors at Woodland View and so no additional significant adverse inter-relationship effect is likely during removal and restoration.





Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
		Exhaust emissions from additional road vehicle movements during removal and reinstatement activities ( <b>Negligible, not significant</b> ).	

# Table 2B.8: Inter-relationship effects on residential receptors, commercial facilities, community facilities and schools from activity at the rail proposals

Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.	
Abbey Lodge Farm	Construction			
<u>Figure 1.2</u> – GR1 <u>Noise and Vibration</u> – No	Noise and vibration during construction ( <b>Negligible</b> or minor, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.	
corresponding residential receptor		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).		
Air Quality – Receptor	Operation			
LE3. Landscape and Visual – No	Night time and daytime noise during operation of the rail extension and branch line ( <b>Negligible, not significant</b> )	from operation ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.	
corresponding visual receptor group.	Night time noise during operation of the east Suffolk line ( <b>Negligible, not significant</b> )	Exhaust emissions from additional road vehicle movements during operation (Average day - Negligible, not significant, Busiest day - Minor, adverse, not significant).		
	Daytime noise during operation of the east Suffolk line (Low, not significant)			
	Removal and Reinstatement.			
	Noise and vibration during removal and reinstatement ( <b>Negligible or minor, not significant</b> ).	· · ·	No effects identified at receptor location.	
		Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).		
Old Abbey Farm	Construction			
<u>Figure 1.2</u> – GR2	Noise and vibration during construction ( <b>Negligible</b> or minor, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible</b> , not significant).	No effects identified at receptor location.	
Noise and Vibration – Receptor 8.				
<u>Air Quality</u> – Receptor LE17.		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).		
Landscape and Visual – No	Operation			
corresponding visual receptor group.	Night time and daytime noise during operation of the rail extension and branch line ( <b>Negligible, not significant</b> )	from operation ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.	
	Night time noise during operation of the east Suffolk line ( <b>Negligible, not significant</b> )	Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).		

# Potential for combined effect.

Potential for combined effect.

There is low potential for combined effects on receptors at Abbey Lodge Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is low potential for combined effects on receptors at Abbey Lodge Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is low potential for combined effects on receptors at Abbey Lodge Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

There is low potential for combined effects on Old Abbey Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is low potential for combined effects on Old Abbey Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during Operation.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
	Daytime noise during operation of the east Suffolk line ( <b>Low, not significant</b> )		
	Removal and reinstatement.		
	Noise and vibration during removal and reinstatement ( <b>Negligible or minor, not significant</b> )	Effects on health from particulate matter generated from removal and restoration ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
		Exhaust emissions from additional road vehicle movements during removal and restoration ( <b>Negligible, not significant</b> ).	
Pro Corda	Construction		
Figure 1.2 – GR4 <u>Noise and Vibration</u> – Receptor	Noise and vibration during construction ( <b>Negligible or minor, not significant</b> )	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Glimpsed views of construction (Slight, adverse, not significant).
/ <u>Air_Quality</u> – Receptor LE15 and LE16.		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
Landarana and Maval	Operation		
Landscape and Visual – Representative Viewpoint 1 (although viewpoint is more elevated - group 3).	Night time and daytime noise during operation of the rail extension and branch line ( <b>Negligible, not significant</b> )	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle	Glimpsed views of trains and bunds through Abbey Lane vegetation and more open views of Abbey Road level crossing ( <b>Slight</b> , <b>adverse</b> , not significant).
	Night time noise during operation of the east Suffolk line ( <b>Negligible, not significant</b> )	movements during operation ( <b>Negligible, not</b> significant).	
	Daytime noise during operation of the east Suffolk line (Low, not significant)		
	Removal and reinstatement.		
	Noise and vibration during removal and reinstatement ( <b>Negligible or minor, not significant</b> )	Effects on health from particulate matter generated from removal and reinstatement ( <b>Negligible, not significant</b> ).	Glimpsed views of construction (Slight, adverse, not significant).
		Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	
105 Abbey Road	Construction		
Figure 1.2 – GR6 Noise and Vibration – Receptor	Noise and vibration during construction ( <b>Negligible</b> or minor, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction ( <b>Minimal, adverse, not</b> significant).
3 and 4 Air Quality – Receptor LE2 and		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not</b>	
LE19.	Operation	significant).	
Landscape and Visual – Close	Night time and daytime noise during operation of the	Effects on health from particulate matter generated	Views of trains and bunds through garden
to representative Viewpoint 2 (group 1).	branch line and rail extension during the early years (Negligible, not significant)	from operation ( <b>Negligible, not significant</b> ).	vegetation (Moderate, adverse, not significant).

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Potential for combined effect.

There is low potential for combined effects on Old Abbey Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

There is low potential for combined effects on Pro Corda. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is low potential for combined effects on Pro Corda. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is low potential for combined effects on Pro Corda. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

There is low potential for combined effects on receptors at 105 Abbey Road. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is no potential for combined effects on receptors at 105 Abbey Road. Combined, these effects are unlikely to lead to an increased sense



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
	Rail extension and branch line during later years at Receptor 3 ( <b>Low, not significant</b> ) Night time noise during operation of the east Suffolk line ( <b>Negligible, not significant</b> ) Daytime noise during operation of the east Suffolk	Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not</b> <b>significant</b> ).	Visibility of proposed lighting at night. ( <b>Minimal, neutral,</b> not significant).
	line (Low, not significant) Removal and reinstatement.		
	Noise and vibration during removal and reinstatement ( <b>Negligible or minor, not significant</b> )	Effects on health from particulate matter generated from removal and reinstatement ( <b>Negligible, not significant</b> ).	Views of construction ( <b>Minimal, adverse, not</b> significant).
Dhaanin Oattana Uladina Wax	Construction	Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	
Phoenix Cottage, Harling Way, Leiston and Highbury Cottages	Construction Noise and vibration during construction (Negligible	Effects on health from particulate matter generated	Views of construction activity (Minimal
Figure 1.2 – GR13, GR14 and GR15	or minor, not significant)	from construction activities (Negligible, not significant).	adverse, not significant).
Noise and Vibration – Receptor 9.		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
<u>Air Quality</u> – Receptor LE20,	Operation		
LE21 and LE22. Landscape and Visual – Visual	Night time and daytime noise during operation of the rail extension and branch line ( <b>Negligible, not significant</b> )	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ).	Views of operation (Moderate adverse, not significant).
receptor group 1.	Night time noise during operation of the east Suffolk line ( <b>Negligible, not significant</b> )	Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	
	Daytime noise during operation of the east Suffolk line (Low, not significant)		
	Removal and Reinstatement.		
	Noise and vibration during removal and reinstatement ( <b>Negligible or minor, not significant</b> )	Effects on health from particulate matter generated from removal and reinstatement ( <b>Negligible, not significant</b> ).	Views of removal and reinstatement activity (Minimal adverse, not significant).
		Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	
Wood Farm Cottages,	Construction		
<u>Westward Ho</u> <u>Figure 1.2</u> – GR16	Noise and vibration during construction ( <b>Negligible</b> or minor, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible</b> , <b>not significant</b> ).	Views of construction ( <b>Minimal, adverse, not</b> significant).
Noise and Vibration – Receptor 9		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	

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# Potential for combined effect.

of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is low potential for combined effects on receptors at 105 Abbey Road. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

There is low potential for combined effects on properties at Phoenix Cottage, Harling Way, Leiston and Highbury Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is low potential for combined effects on properties at Phoenix Cottage, Harling Way, Leiston and Highbury Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse interrelationship effect is likely during operation.

There is low potential for combined effects on properties at Phoenix Cottage, Harling Way, Leiston and Highbury Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

There is low potential for combined effects on properties at Westwood Farm Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
Air Quality – Receptor LE56.	Operation		
<u>Landscape and Visual</u> – Representative viewpoint 7 (group 1).	Night time and daytime noise during operation of the rail extension and branch line ( <b>Negligible, not</b> <b>significant</b> ) Night time noise during operation of the east Suffolk line ( <b>Negligible, not significant</b> )	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	Occasional views of trains and bunds through garden/trackside vegetation (Moderate, adverse, not significant). Visibility of proposed lighting at night. (Minimal, neutral, not significant).
	Daytime noise during operation of the east Suffolk line ( <b>Low, not significant</b> )		
	Removal and Reinstatement.		
	Noise and vibration during removal and reinstatement ( <b>Negligible or minor, not significant</b> )	Effects on health from particulate matter generated from removal and reinstatement ( <b>Negligible, not significant</b> ).	Views of construction ( <b>Minimal, adverse, not</b> significant).
		Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	
Leiston House Farm	Construction		
<u>Figure 1.2</u> – GR17 <u>Noise and Vibration</u> – Receptor	Noise and vibration during construction ( <b>Negligible</b> or minor, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
5. <u>Air Quality</u> – Receptor LE55.		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
Landscape and Visual – No	Operation		
corresponding visual receptor group.	Night time and daytime noise during operation of the rail extension and branch line ( <b>Negligible, not significant</b> )	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
	Night time noise during operation of the east Suffolk line ( <b>Negligible, not significant</b> )	Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).	
	Daytime noise during operation of the east Suffolk line ( <b>Low, not significant</b> )		
	Removal and Reinstatement.		
	Noise and vibration during removal and reinstatement (Negligible or minor, not significant)	Effects on health from particulate matter generated from removal and reinstatement ( <b>Negligible, not significant</b> ).	No effects identified at receptor location.
		Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	
Fisher's Farm	Construction		
Figure 1.2 – GR18 <u>Noise and Vibration</u> – Receptor 6.	Noise and vibration during construction ( <b>Negligible</b> or minor, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity (Major- moderate, adverse, not significant).

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# Potential for combined effect.

There is low potential for combined effects on properties at Westwood Farm Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is low potential for combined effects on properties at Westwood Farm Cottages. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

There is low potential for combined effects on properties at Leiston House Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is low potential for combined effects on properties at Leiston House Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is low potential for combined effects on properties at Leiston House Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

There is low potential for combined effects on receptors at Fisher's Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.		
<u>Air Quality</u> – Receptor LE23. <u>Landscape and Visual</u> –		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).			
Representative viewpoint 4	Operation				
(although viewpoint is more open - group 2).	Night time and daytime noise during operation of the rail extension and branch line ( <b>Negligible, not</b> <b>significant</b> ) Night time noise during operation of the east Suffolk line ( <b>Negligible, not significant</b> ) Daytime noise during operation of the east Suffolk line ( <b>Low, not significant</b> ) Removal and Reinstatement. Noise and vibration during removal and reinstatement ( <b>Negligible or minor, not</b>	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not</b> <b>significant</b> ). Effects on health from particulate matter generated from removal and reinstatement ( <b>Negligible, not</b>	Views of proposed lighting columns and operational vehicles and infrastructure ( <b>Major-</b> <b>moderate, adverse, not significant</b> ). Visibility of proposed lighting at night ( <b>Minimal,</b> <b>adverse, not significant</b> ). Views of construction associated with removal and restoration ( <b>Minimal, neutral, not</b>		
	significant)	significant). Exhaust emissions from additional road vehicle movements during removal and reinstatement (Negligible, not significant).	significant).		
Abbey Lane (Gypsy Lodge)	Construction				
Figure 1.2 – GR19 <u>Noise and Vibration</u> – Receptor 6.	Noise and vibration during construction ( <b>Negligible</b> or minor, not significant)	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity ( <b>Moderate</b> adverse, not significant).		
o. <u>Air Quality</u> – Receptor LE54.		Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).			
Landscape and Visual – Visual	Operation				
receptor group 5.	Night time and daytime noise during operation of the rail extension and branch line ( <b>Negligible, not significant</b> )	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ).	Views of operation ( <b>Moderate adverse, not</b> significant).		
	Night time noise during operation of the east Suffolk line ( <b>Negligible, not significant</b> )	Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not significant</b> ).			
	Daytime noise during operation of the east Suffolk line ( <b>Low, not significant</b> ) Removal and Reinstatement.				
	Noise and vibration during removal and	Effects on health from particulate matter generated	Views of removal and reinstatement		
	reinstatement (Negligible or minor, not significant).		(Moderate adverse, not significant).		
		Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).			
Aldhurst Farm Cottage	Construction				
<u>Figure 1.2</u> – GR20	Noise and vibration during construction ( <b>Negligible</b> or minor, not significant).	Effects on health from particulate matter generated from construction activities ( <b>Negligible, not significant</b> ).	Views of construction activity ( <b>Major-</b> moderate, adverse, significant).		

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Potential for combined effect.

There is low potential for combined effects on receptors at Fisher's Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is low potential for combined effects on receptors at Fisher's Farm. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

There is low potential for combined effects on receptors at Abbey Lane. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is low potential for combined effects on receptors at Abbey Lane. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is low potential for combined effects on receptors at Abbey Lane. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

There is low potential for combined effects on receptors at Aldhurst Farm Cottage. Combined, these effects are unlikely to lead to an increased



Receptor Groups.	Noise and Vibration.	Air Quality.	Landscape and Visual.
<u>Noise and Vibration</u> – Receptor 1. <u>Air Quality</u> – Receptor LE18.	Operation	Exhaust emissions from additional road vehicle movements during construction ( <b>Negligible, not significant</b> ).	
Landscape and Visual – Representative viewpoint 5 (although viewpoint is more open - group 2).	Night time and daytime noise during operation of the rail extension and branch line ( <b>Negligible</b> , <b>not</b> <b>significant</b> ) Night time noise during operation of the east Suffolk line ( <b>Negligible</b> , <b>not significant</b> ) Daytime noise during operation of the east Suffolk line ( <b>Low</b> , <b>not significant</b> )	Effects on health from particulate matter generated from operation ( <b>Negligible, not significant</b> ). Exhaust emissions from additional road vehicle movements during operation ( <b>Negligible, not</b> <b>significant</b> ).	Views of proposed lighting columns and operational vehicles and infrastructure ( <b>Major-</b> <b>moderate, adverse, not significant</b> ). Visibility of proposed lighting at night ( <b>Minimal,</b> <b>adverse, not significant</b> ).
	Removal and Reinstatement. Noise and vibration during removal and reinstatement ( <b>Negligible or minor, not</b> <b>significant</b> ).	Effects on health from particulate matter generated from removal and reinstatement ( <b>Negligible, not</b> <b>significant</b> ). Exhaust emissions from additional road vehicle movements during removal and reinstatement ( <b>Negligible, not significant</b> ).	Views of construction associated with removal and restoration ( <b>Major-moderate, adverse,</b> <b>not significant</b> ).

# Potential for combined effect.

sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during construction.

There is low potential for combined effects on receptors at Aldhurst Farm Cottage. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during operation.

There is low potential for combined effects on receptors at Aldhurst Farm Cottage. Combined, these effects are unlikely to lead to an increased sense of disturbance for the receptors and so no additional significant adverse inter-relationship effect is likely during removal and reinstatement.

