



Preliminary Environmental Information Report

Chapter 19: Summary

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Future Energy Llanwern Limited

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19.0 Summary of Environmental Effects

19.1 Introduction

19.1.1 This Chapter of the Preliminary Environmental Information Report (PEIR) summarises the preliminary residual effects of the Proposed Development. Residual effects are defined as those effects that remain following the implementation of additional mitigation measures.

19.1.2 The Environmental Impact Assessment (EIA) for the Proposed Development is being undertaken in parallel with the design process and development of the embedded and additional mitigation identified within each respective technical chapter, **Chapters 6 to 17**, along with their assessments of effects.

19.1.3 The effects presented within this Chapter are preliminary and further certainty of the potential environmental effects as a result of the Proposed Development will be gained as the EIA process progresses alongside the development of the design of the Proposed Development. The design of the Proposed Development is an iterative process and will continue to evolve in consultation with statutory and non-statutory consultees. The final design parameters will be considered in detail by authors and the results of the technical assessments will be reported in the individual technical chapters presented in the Environmental Statement (ES).

19.1.4 Each technical assessment chapter contains detailed consideration of both the beneficial and adverse significant effects identified as likely to arise from the Proposed Development. The criteria applied to define the significance of effects are outlined within **Chapter 5: Environmental Impact Assessment Methodology** of this PEIR, with further detail provided within the individual technical chapters.

19.1.5 The following management plans have been developed and provided as Appendices to this PEIR:

- Outline Construction Environmental Management Plan (oCEMP) (**Appendix 2A**);
- Outline Decommissioning Environmental Management Plan (oDEMP) (**Appendix 2B**);

- Outline Framework Landscape Ecological Management Plan (oLEMP) (**Appendix 8J**); and
- Draft Travel Plan (**Appendix 15A**).

19.2 Summary of Environmental Effects

- 19.2.1 The effects presented within this Chapter are preliminary and further certainty of the potential environmental effects as a result of the Proposed Development will be gained as the EIA progresses, alongside the detailed development of the Proposed Development.
- 19.2.2 **Table 19-1** to **Table 19-3** presents the preliminary effects of the Proposed Development, proposed additional mitigation measures and the residual effects of each of the technical topics assessed within this PEIR.
- 19.2.3 The information detailed in **Table 19-1** to **Table 19-3**, is based on preliminary information and may be revised for the ES stage, in light of further baseline information or in response to design changes or ongoing consultation. It should be noted that the assessment to date has been conservative and may therefore overestimate the effects where none may occur.
- 19.2.4 The final design parameters will be considered in detail by the environmental chapter authors and the results of the assessments will be reported in the individual topic chapters of the ES.

Table 19-1 Summary of residual environmental effects during the construction phase of the Proposed Development

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Chapter 6: Greenhouse Gases					
Global Climate	High	Emissions from construction phase – 58,089 tCO _{2e}	Minor Adverse (Not Significant)	N/A	Minor Adverse (Not Significant)
Chapter 7: Cultural Heritage and Archaeology					
GGAT10954g - Moated Site	Medium	Direct physical	Moderate Adverse (Significant)	Additional mitigation through preservation by record.	Minor Adverse (Not Significant)
GGAT10946g - Moated sub-rectangular platform	High	Direct physical	Moderate Adverse (Significant)	Additional mitigation through preservation by record.	Minor Adverse (Not Significant)
GGAT10947g - Moated platform	Low	Direct physical	Moderate Adverse (Significant)	Additional mitigation through preservation by record.	Minor Adverse (Not Significant)
GGAT10948g - Moated sub-rectangular platform	Low	Direct physical	Moderate Adverse (Significant)	Additional mitigation through preservation by record.	Minor Adverse (Not Significant)
C8 - Small agricultural building	Low	Setting	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)
Footbridges, Redwick: GGAT15715g – 15735g	Low	Setting	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)
Footbridges near Goldcliff: GGAT 15709g – 15735g	Low	Setting	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Chapter 8: Ecology					
Severn Estuary Ramsar/ SAC/ SSSI	International or European	Water pollution via reen network	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
		Crossing points resulting in localised siltation.			
River Usk SAC	International or European	Dust	Negligible (Not Significant)	N/A	Negligible (Not Significant)
		Water pollution via reen network			
Gwent Levels (covering Magor and Undy SSSI, Redwick and Llandeenny SSSI, Whitson SSSI and Nash and Goldcliff SSSI)	National	Crossing points resulting in localised siltation.	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
		Impacts on otter during culvert/ bridge installation			
		Siltation			
		Water quality/ Water quality/ quantity impacts			
		Pollution of watercourses			
		Temporary impacts to shrill carder bee habitats			

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Magor Marsh SSSI	National	Hydrology/ Water quantity	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
Newport Wetlands SSSI/ NNR	National	Hydrology/ Water quantity	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
Non-statutory sites	Country	Water pollution Hydrology/ Water quantity	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
Coastal Floodplain Grazing Marsh	Local	Permanent land take for grid yard/ compound. Land take for footings and access tracks. Rutting/ compaction of fields in wet weather	Minor Not (Significant).	N/A	Minor (Not Significant)
Wet reens/ ditches	National	Siltation Run-off Temporary impacts to channel/ bank	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Hedgerows	Local	Permanent loss of hedgerow at cable/ vehicular crossings	Minor (Not Significant)	To be subject to further review at ES stage.	Minor (Not Significant)
Roosting bats	Local	Lighting	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Commuting/ foraging bats	Local	Lighting	Negligible (Not Significant)	N/A	Negligible (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
		Hedgerow loss (fragmentation)			
Amphibians	Local	Hedgerow removal at cable crossings causing injury/ mortality Entrapment in excavations	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Dormice	Local	Hedgerow removal at cable crossings causing injury/ mortality and loss of nest sites	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Otter	Local	Avoidance/ behaviour/ disturbance Entrapment in trenches Lighting	Major (Significant)	N/A	Major (Significant)
Water vole	Local	Impacts to burrows	Minor (Not Significant)	N/A	Minor (Not Significant)
Aquatic invertebrates	Local	Pollution/ siltation at crossing points	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Terrestrial invertebrates	Local	Short-term reversible impacts during	Negligible (Not Significant)	N/A	Negligible (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
		installation of cable crossings.			
Reptiles	Local	Small scale habitat loss at cable crossings	Negligible (Not Significant)	N/A	Negligible (Not Significant)
European eel and fish	Local	Pollution/ siltation at crossing points	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Badger	Local	Disturbance Entrapment in excavations	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Hedgehog	Local	Entrapment in excavations	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Brown hare	Local	Temporary displacement Entrapment in excavations	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Chapter 9: Ornithology					
Severn Estuary Ramsar (ornithological features) and SPA	International or European	Noise disturbance to SPA/ Ramsar birds within the estuary Pollution/ siltation affecting supporting habitat of notified features.	Major (Significant)	Further assessment of noise and screening solutions to be assessed as part of ES.	Major (Significant)
	International or European	Visual disturbance to SPA/ Ramsar birds within the estuary	Negligible (Not Significant)	N/A	Negligible (Not Significant)
	International or European	Pollution/ siltation affecting supporting habitat of notified features.	Negligible (Not Significant)	N/A	Negligible (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Functionally Linked Land (associated with Severn Estuary SPA)	International or European	Noise disturbance to SPA/ Ramsar birds within the estuary Pollution/ siltation affecting supporting habitat of notified features.	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Wintering shelduck, snipe and curlew	Local	Noise disturbance to loafing/ foraging areas for shelduck, snipe and curlew resulting in displacement and reduction in available foraging habitat.	Minor (Not Significant)	Further assessment of noise and screening solutions to be assessed as part of ES.	Negligible (Not Significant)
Wintering bird assemblage	Local	Displacement effects due to noise/ visual disturbance.	Negligible (Not Significant)	Further assessment of noise and screening solutions to be assessed as part of ES.	Negligible (Not Significant)
Ground-nesting birds (excluding lapwing, curlew, gadwall)	Local	Overall loss of nesting habitat.	Minor (Not Significant)	N/A	Minor (Not Significant)
Breeding lapwing, curlew and gadwall	Local	Noise/ visual disturbance at nesting sites.	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Schedule 1 birds (Barn owl and Cetti's warbler)	Local	Disturbance of nests by dust, noise, personnel and moving plant.	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Other breeding birds	Local	Overall loss of nesting habitat (hedgerows)	Negligible (Not Significant)	N/A	Negligible (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
	Local	Overall loss of nesting habitat (hedgerows)	Minor (Not Significant)	Existing hedgerow gaps will be infilled and new scrub planted.	Negligible (Not Significant)
Chapter 10: Water Environment					
Severn Estuary (surface water)	Very High	Increased pollution risks from spillage of fuels or other harmful substances.	Minor (Not Significant)	N/A	Minor (Not Significant)
Severn Estuary (surface water)	Very High	Risk of increased sedimentation.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen (surface water)	High	Increased pollution risks from spillage of fuels or other harmful substances.	Minor (Not Significant)	N/A	Minor (Not Significant)
Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen (surface water)	High	Risk of increased sedimentation.	Minor or Moderate (Significant)	N/A	Minor or Moderate (Significant)
Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen	High	Potential for damage to existing watercourse crossings (culverts and	Minor (Not Significant)	N/A	Minor (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Reen (surface water)		bridges) that could lead to water quality impact.			
Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen (surface water)	High	Impact to watercourse quality attributes from temporary culverting or other physical modifications.	Minor or Moderate (Significant)	N/A	Minor or Moderate (Significant)
Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back Ditch (surface water)	High	Increased pollution risks from spillage of fuels or other harmful substances.	Minor (Not Significant)	N/A	Minor (Not Significant)
Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back Ditch (surface water)	High	Risk of increased sedimentation.	Minor or Moderate (Significant)	N/A	Minor or Moderate (Significant)
Elver Pill Reen, Cold Harbour Reen,	High	Potential for damage to existing watercourse crossings (culverts and	Minor (Not Significant)	N/A	Minor (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Collister Pill, Back Ditch (surface water)		bridges) that could lead to water quality impact.			
Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back Ditch (surface water)	High	Impact to watercourse quality attributes from temporary culverting or other physical modifications.	Minor or Moderate (Significant)	N/A	Minor or Moderate (Significant)
Ordinary watercourses and ditches (surface water)	Low to High	Increased pollution risks from spillage of fuels or other harmful substances.	Neutral to Minor (Not Significant)	N/A	Neutral to Minor (Not Significant)
Ordinary watercourses and ditches (surface water)	Low to High	Risk of increased sedimentation.	Neutral to Moderate (Significant)	N/A	Neutral to Moderate (Significant)
Ordinary watercourses and ditches (surface water)	Low to High	Potential for damage to existing watercourse crossings (culverts and bridges) that could lead to water quality impact.	Neutral to Minor (Not Significant)	N/A	Neutral to Minor (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Ordinary watercourses and ditches (surface water)	Low to High	Impact to watercourse quality attributes from temporary culverting or other physical modifications.	Neutral to Moderate (Significant)	N/A	Neutral to Moderate (Significant)
Usk Devonian Old Red Sandstone (ground water)	Medium	Impacts to groundwater quantity (level and flow) and quality.	Moderate (Significant)	N/A	Moderate (Significant)
Usk and Wye Southern Carboniferous Limestone (ground water)	Low	Impacts to groundwater quantity (level and flow) and quality.	Neutral or Minor (Not Significant)	N/A	Neutral or Minor (Not Significant)
Private water supplies (ground water)	Low	Potential reduction in water level (locally) within the Secondary aquifer due to groundwater control measures.	Minor (Not Significant)	N/A	Minor (Not Significant)
GDTE - Magor Marsh nature reserve (ground water)	Very High	Potential indirect impact to groundwater quantity (level and flow) and quality.	Moderate (Significant)	N/A	Moderate (Significant)
GDTE - Magor Marsh nature	Very High	Potential reduction in water level (locally) within aquifers due to	Moderate (Significant)	N/A	Moderate (Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
reserve (ground water)		groundwater control measures if sites are hydrogeological connected.			
Residential properties, childcare facilities, vulnerable industry/business properties	High to Very High	Increased flood risk from temporary construction works within/adjacent to the floodplain.	Minor (Not Significant)	N/A	Minor (Not Significant)
Agricultural land, sewage treatment works, less vulnerable industry/business properties	Medium	Increased flood risk from temporary construction works within/adjacent to the floodplain.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
The Proposed Development	Medium	Increased flood risk from temporary construction works within/adjacent to the floodplain.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Residential properties, childcare facilities, vulnerable industry/busi	High to Very High	Potential damage, obstruction or modification of existing flood defence infrastructure.	Minor (Not Significant)	N/A	Minor (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
ness properties					
Agricultural land, sewage treatment works, less vulnerable industry/business properties	Medium	Potential damage, obstruction or modification of existing flood defence infrastructure.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
The Proposed Development	Medium	Potential damage, obstruction or modification of existing flood defence infrastructure.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Chapter 11: Landscape and Visual Impact Assessment					
LCA A2: Caldicot Level	Low magnitude of change increasing to high, on medium sensitivity landscape.	Changes to Landscape	Minor increasing to Moderate Adverse (Not Significant)	N/A	Minor increasing to Moderate Adverse (Not Significant)
The Caldicot Level Special Landscape Area	Low magnitude of change increasing to high, on medium	Changes to Landscape	Major Adverse (Significant)	N/A	Major Adverse (Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
	sensitivity landscape.				
Porton House (within grouping of Whitson and outlying properties to the south of Whitson and south-west of the Proposed Development)	High scale and geographic extent on sensitive views	Visual Effects	Major Adverse (Significant)	N/A	Major Adverse (Significant)
Church Farm (within grouping of Redwick and outlying residential property to the south of the hamlet)	High scale and geographic extent on sensitive views	Visual Effects	Major Adverse (Significant)	N/A	Major Adverse (Significant)
Summerleaze and outlying residential property surrounding the east of the Proposed Development	High scale and geographic extent on sensitive views	Visual Effects	Major Adverse (Significant)	N/A	Major Adverse (Significant)
Wales Coast Path	Medium magnitude	Visual Effects	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
	of change on high sensitivity users				
Redwick Circular Route	Medium magnitude of change on high sensitivity users	Visual Effects	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)
Users of Other Footpaths/PRoW crossing through the Proposed Development	Medium magnitude of change on high sensitivity users	Visual Effects	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)
Footpath 372/58/3,5,1,7	Medium magnitude of change on high sensitivity users	Visual Effects	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)
Users of Green Lanes	Medium magnitude of change on high sensitivity users	Visual Effects	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)
Users of the National Cycle	Low magnitude	Visual Effects	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Network (NCN) Route 4	of change on medium sensitivity users				
Users of North Row	Medium magnitude of change on low sensitivity users	Visual Effects	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)
Users of local road Bowleaze Reen	Medium magnitude of change on low sensitivity users	Visual Effects	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)
Users of local road along Parish Reen	Medium magnitude of change on low sensitivity users	Visual Effects	Moderate Adverse (Significant)	N/A	Moderate Adverse (Significant)
Chapter 12: Glint & Glare					
No residual effects were identified for the Proposed Operations during the construction phase.					
Chapter 13: Noise and Vibration					
Receptors R02 – R20	Medium	Impacts due to airborne noise	Not Significant	No additional mitigation. However, construction phase effects will be	Not Significant

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
				controlled through the detailed CEMP.	
Wales Coast Path (Receptor R01)	Medium	Impacts due to airborne noise	Not Significant	No additional mitigation. However, construction phase effects will be controlled through the detailed CEMP.	Not Significant
R08 (and any other dwellings in sufficiently close proximity to impact piling to result in moderate effects to human perception)	Medium	Impacts due to groundborne vibration	Potentially Significant	Informing residents of the nature and duration of the proposed works. Requirement to inform residents of the works where moderate effects to human perception are predicted will be set out in the oCEMP.	Not Significant
Receptors R02 – R07 and R09 – R20	Medium	Impacts due to airborne noise	Not Significant	N/A	Not Significant
Chapter 14: Socio-Economics, Tourism and Recreation					
FTE Farming Jobs	Medium	Socio-economics and Labour Market Impacts	Minor Adverse (Not Significant)	N/A	Minor (Not Significant)
FTE Professional, scientific and technical Jobs	Medium	Socio-economics and Labour Market Impacts	Minor Beneficial (Not Significant)	N/A	Beneficial - Minor (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
FTE Construction Jobs	Medium	Socio-economics and Labour Market Impacts	Moderate Beneficial (Probably Significant)	N/A	Beneficial - Moderate (Probably Significant)
Wales Coast Path (within Study Area)	High	Impacts upon Recreation	Moderate Adverse (Probably Significant)	N/A	Moderate (Probably Significant)
NCN Route 4 (within Study Area)	High	Impacts upon Recreation	Major Adverse (Significant)	N/A	Major (Significant)
Redwick Circular Route (promoted walk)	Medium	Impacts upon Recreation	Moderate Adverse (Probably Significant)	N/A	Moderate (Probably Significant)
Local PRow network	Medium / Low	Impacts upon Recreation	Moderate Adverse (Probably Significant) / Minor (Not Significant)	N/A	Moderate (Probably Significant) / Minor (Not Significant)
Magor Marsh Nature Reserve	High	Impacts upon Recreation	-Minor Adverse (Not Significant)	N/A	Minor (Not Significant)
Wales Coast Path (within Study Area)	High	Impacts upon Tourism	Major Adverse (Significant)	N/A	Major Adverse (Significant)
Redwick Circular Route (promoted walk)	Low	Impacts upon Tourism	Moderate Adverse (Probably Significant)	N/A	Moderate Adverse (Probably Significant)
Magor Marsh Nature Reserve	High	Impacts upon Tourism	Minor Adverse (Not Significant)	N/A	Minor Adverse (Not Significant)
Procurator's House	Low	Impacts upon Tourism	Negligible (Not Significant)	N/A	Negligible (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Rogiet Countryside Park	Medium	Impacts upon Tourism	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Rogiet Poorland – Gwent Wildlife Trust	Low	Impacts upon Tourism	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Geraint Thomas National Velodrome of Wales	Very high	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
Newport Stadium	Very high	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
Newport International Sports Village	Very high	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
RSPB Newport Wetlands National Nature Reserve	High	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
International Convention Centre Wales	Very high	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
Penhow Woodlands National Nature Reserve	High	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
Brockwells Meadows – Gwent Wildlife Trust	Low	Impacts upon Tourism	Negligible (Not Significant)	N/A	Negligible (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Chapter 15: Transport and Access					
Users of local highway network, PRow Footpaths and Restricted Byway, Wales Coast Path and National Cycle Network Route 4	Low	Severance: Additional vehicles on the local highway network	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Road vehicle drivers and passengers of local highway network	Low	Road vehicle drivers and passenger delay	To be determined at ES stage.	N/A	To be determined at ES stage.
Non-motorised Users of local highway network	Low	Non-motorised User Amenity and Delay: Additional HGVs on the local highway network	To be determined at ES stage.	N/A	To be determined at ES stage.
Users of local PRow, Wales Coast Path and National Cycle Network Route 4 within Study Area	Low	Non-motorised User Amenity and Delay: Additional HGVs on the local highway network	Slight Adverse or Neutral (Not Significant)	N/A	Slight Adverse or Neutral (Not Significant)
Users of local highway network	Low	Fear and Intimidation on and by Road Users: Additional HGVs on the local highway network	To be determined at ES stage.	N/A	To be determined at ES stage.

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Users of local PRowS, Wales Coast Path and National Cycle Network Route 4 within Study Area	Low	Fear and Intimidation on and by Road Users: Additional HGVs on the local highway network	Slight Adverse or Neutral (Not Significant)	N/A	Slight Adverse or Neutral (Not Significant)
Users of local highway network	Low	Road user and Pedestrian Safety: Additional vehicles on the local highway network	To be determined at ES stage.	N/A	To be determined at ES stage.
Chapter 16: Ground Conditions					
Soil resources	Medium sensitivity	Construction – Land take, soil removal / soil sealing.	Moderate (Adverse) (Not Significant)	N/A	Moderate (Adverse) (Not Significant)
Soil resources	Medium sensitivity	Compaction of soil by vehicles/ construction plant, during soil handling and erosion of soil during construction activities.	Slight (Adverse) (Not Significant)	N/A	Slight (Adverse) (Not Significant)
Land contamination receptors	Variable sensitivity	Mobilisation of contaminants due to ground	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Land contamination receptors	Variable sensitivity	Spills or leaks	Negligible (Not Significant)	N/A	Negligible (Not Significant)

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Land contamination receptors	Variable Sensitivity	Degradation of or damage to the PV Modules	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Chapter 17: Other Environmental Topics					
Underground Utilities	High	Damage to underground utilities	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Human Receptors	High	Harm to health from waste	Negligible (Not Significant)	N/A	Negligible (Not Significant)

Table 19-2 Summary of residual environmental effects during operational phase of the Proposed Development

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Chapter 6: Greenhouse Gases					
Global Climate	High	Emissions from operational phase – 9,732 tCO _{2e}	Negligible (Not Significant)	N/A	Given a net reduction in GHG emissions associated with the Proposed Development the overall significance of effect is assessed as Beneficial (Significant)
Chapter 7: Cultural Heritage					
C8 - Small agricultural building	Low	Setting	Moderate Adverse (Significant)	N/A	Moderate (Significant)
Footbridges, Redwick: GGAT15715g – 15735g	Low	Setting	Moderate Adverse (Significant)	N/A	Moderate (Significant)
Footbridges near Goldcliff: GGAT 15709g – 15735g	Low	Setting	Moderate Adverse (Significant)	N/A	Moderate (Significant)
Chapter 8: Ecology					
Severn Estuary Ramsar/ SAC/ SSSI	International or European	Beneficial effects from change in management Run-off/ hydrology	Negligible (Not Significant)	N/A	Negligible (Not Significant)
River Usk SAC	International or European	Beneficial effects from change in management	Negligible (Not Significant)	N/A	Negligible (Not Significant)

		Fragmentation of otter habitat due to fencing			
Gwent Levels (covering Magor and Undy SSSI, Redwick and Llandeenny SSSI, Whitson SSSI and Nash and Goldcliff SSSI)	National	Run-off/ hydrology Beneficia effects from change in management	Major Beneficial (Significant)	N/A	Major Beneficial (Significant)
Magor Marsh SSSI	National	None	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Newport Wetlands SSSI/ NNR	National	None	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Coastal Floodplain Grazing Marsh	Local	Beneficial effects from change in management Overall increase in habitat through reversion of arable to grassland	Minor Beneficial (Not Significant)	N/A.	Minor Beneficial (Not Significant)
Wet reens/ ditches	National	Run-off/ hydrology Beneficial effects from change in management	Major Beneficial (Significant)	N/A	Major Beneficial (Significant)

Hedgerows	Local	Overall loss due to proposals to open up selected reens	Minor (Not Significant)	Although hedgerows will be managed positively under the LEMP, there will be an overall loss in hedgerow length across the Proposed Development.	Minor (Not Significant)
Commuting/ foraging bats	Local	Reduction in foraging habitat (hedgerows) Collision Higher quality foraging habitat (grassland providing higher invertebrate prey)	Negligeable (Not Significant)	N/A	Negligible (Not Significant)
Amphibians	Local	Beneficial or adverse effects from change in management	Minor (Not Significant)	N/A	Minor (Not Significant)
Otter	Local	Beneficial effects from change in management Fragmentation of otter habitat due to fencing	Minor (Not Significant)	Suitable gaps (indicatively 30 x 30cm) will be incorporated into all lengths of security fencing to allow mammals to pass beneath.	Minor (Not Significant)
Aquatic Invertebrates	Local	Egg laying on panels	Minor (Not Significant)	N/A	Minor (Not Significant)

		Loss of cattle poached margins			
		Beneficial or adverse effects from change in management			
Terrestrial invertebrates including shrill carder bee	Local	Shading of grassland Beneficial or adverse effects from change in management	Minor (Not Significant)	N/A	Minor (Not Significant)
Reptiles	Local	Beneficial or adverse effects from change in management	Negligeable (Not Significant)	N/A	Negligible (Not Significant)
European Eel and Fish	Local	Beneficial effects from change in land management EMFs	Minor (Not Significant)	Further information regarding EMFs to be provided at ES stage.	Minor (Not Significant)
Badger	Local	Beneficial effects from change in management Fragmentation due to fencing	Negligeable (Not Significant)	Suitable gaps (indicatively 30 x 30cm) will be incorporated into all lengths of security fencing to allow mammals to pass beneath.	Negligible (Not Significant)
Hedgehog	Local	Fragmentation due to fencing	Negligeable (Not Significant)	Suitable gaps (indicatively 30 x 30cm) will be incorporated into	Negligible (Not Significant)

		Higher quality foraging habitat		all lengths of security fencing to allow mammals to pass beneath.	
Brown Hare	Local	Fragmentation due to fencing Higher quality foraging habitat	Minor (Not Significant)	Suitable gaps (indicatively 30 x 30cm) will be incorporated into all lengths of security fencing to allow mammals to pass beneath.	Negligible (Not Significant)
Chapter 9: Ornithology					
Severn Estuary Ramsar (ornithological features) and SPA	International or European	None predicted	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Wintering shelduck, snipe and curlew	Local	Overall loss of habitat for snipe.	Snipe: Minor (Not Significant) Wintering shelduck and curlew: Negligible, (Not Significant)	N/A	Negligible (Not Significant)
Wintering bird assemblage	Local	Overall loss of hedgerow habitat for foraging species such as thrushes Overall increase in foraging within grassland habitat.	Minor (Not Significant)	N/A	Minor (Not Significant)

Ground-nesting birds (excluding lapwing, curlew, gadwall)	Local	Overall loss of available nesting habitat (large, open fields) Increase in quality of foraging habitat.	Minor (Not Significant)	N/A	Minor (Not Significant)
Breeding lapwing, curlew and gadwall	Local	No adverse effects predicted.	Minor (Not Significant)	N/A	Minor (Not Significant)
Schedule 1 birds (Barn owl and Cetti's warbler)	Local	Increase in foraging habitat and quality of foraging resource.	Minor (Not Significant)	N/A	Minor (Not Significant)
Other breeding birds	Local	Increase in foraging habitat and quality of foraging resource.	Minor (Not Significant)	N/A	Minor (Not Significant)
Chapter 10: Water Environment					
Severn Estuary (surface water)	Very High	Polluted surface water runoff and spillage risks containing silts, hydrocarbons or other harmful chemicals.	Minor (Not Significant)	N/A	Minor (Not Significant)
Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen (surface water)	High	Polluted surface water runoff and spillage risks containing silts, hydrocarbons or other harmful chemicals.	Minor (Not Significant)	N/A	Minor (Not Significant)
Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back Ditch (surface water)	High	Polluted surface water runoff and spillage risks containing silts, hydrocarbons or other harmful chemicals.	Minor (Not Significant)	N/A	Minor (Not Significant)
Ordinary watercourses and	Low to High	Polluted surface water runoff and spillage risks containing silts,	Neutral to Minor (Not Significant)	N/A	Neutral to Minor (Not Significant)

ditches (surface water)		hydrocarbons or other harmful chemicals.			
Usk Devonian Old Red Sandstone Usk and Wye Southern Carboniferous Limestone	Medium to Low	Impacts to groundwater quantity (level and flow) and quality.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
GWDTE - Magor Marsh nature reserve	Very High	Impacts to groundwater quantity (level and flow) and quality.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Residential properties, childcare facilities, vulnerable industry/business properties	High to Very High	Potential for increased surface water flood risk due to an increase in impermeable area and surface runoff.	Minor (Not Significant)	N/A	Minor (Not Significant)
Agricultural land, sewage treatment works, less vulnerable industry/business properties	Medium	Potential for increased surface water flood risk due to an increase in impermeable area and surface runoff.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
The Proposed Development	Medium	Potential for increased surface water flood risk due to an increase in impermeable area and surface runoff.	Minor (Not Significant)	N/A	Minor (Not Significant)
Residential properties, childcare facilities,	High to Very High	Increased flood risk from changes to flood flow conveyance and storage.	Minor (Not Significant)	N/A	Minor (Not Significant)

vulnerable industry/business properties					
Agricultural land, sewage treatment works, less vulnerable industry/business properties	Medium	Increased flood risk from changes to flood flow conveyance and storage.	Minor (Not Significant)	N/A	Minor (Not Significant)
The Proposed Development	Medium	Increased flood risk due to the location of the Proposed Development in an area of flood risk.	Minor (Not Significant)	N/A	Minor (Not Significant)
Residential properties, childcare facilities, vulnerable industry/business properties	Medium to Very High	Potential for increased flood risk from structures that extend below the groundwater table forming groundwater flow barriers.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Agricultural land, sewage treatment works, less vulnerable industry/business properties					
The Proposed Development	Medium	Potential for increased flood risk from structures that extend below the groundwater table forming groundwater flow barriers.	Minor (Not Significant)	N/A	Minor (Not Significant)

Chapter 11: Landscape and Visual Impact Assessment

<p>LCA A2: Caldicot Level</p>	<p>High magnitude of change, on medium sensitivity landscape.</p>	<p>Effects on Landscape (Year 1 and 15 of Operation)</p>	<p>Major Adverse (Significant)</p>	<p>Implement detailed planting strategy to include reinforcement of existing hedgerows, gapping up and management of existing hedgerows to grow out and improve screening along the southern boundary of the Proposed Development. Mitigation effects will be felt once so established so are considered at Year 15 below.</p>	<p>Moderate (Significant), following 15 years the effect will be Moderate (Significant)</p>
<p>The Caldicot Level Special Landscape Area</p>	<p>High magnitude of change, on medium sensitivity landscape.</p>	<p>Effects on Landscape (Year 1 and 15 of Operation)</p>	<p>Major Adverse (Significant)^v</p>	<p>N/A</p>	<p>Major (Significant), following 15 years the effect will be Moderate (Significant)</p>
<p>Porton House (within grouping of Whitson and outlying properties to the south of Whitson and south-west of the Proposed Development)</p>	<p>High scale and geographic extent on sensitive views</p>	<p>Visual Effects (Year 1 and 15 of Operation)</p>	<p>Major Adverse (Significant)</p>	<p>Implementing management of hedgerows to improve screening Supplementary planting of replacement hedges and gapping up. Mitigation effects will be felt once so established so are considered at Year 15 below.</p>	<p>Major (Significant), following 15 years the effect will be Moderate (Significant)</p>

Church Farm (within grouping of Redwick and outlying residential property to the south of the hamlet)	High scale and geographic extent on sensitive views	Visual Effects (Year 1 and 15 of Operation)	Major Adverse (Significant)	Implementing management of hedgerows to improve screening. Supplementary planting of replacement hedges and gapping up. Mitigation effects will be felt once so established so are considered at Year 15 below.	Major (Significant), following 15 years the effect will be Moderate (Significant)
Summerleaze and outlying residential property surrounding the east of the Proposed Development	High scale and geographic extent on sensitive views	Visual Effects (Year 1 and 15 of Operation)	Major Adverse (Significant)	Implementing management of hedgerows to improve screening. Supplementary planting of replacement hedges and gapping up. Mitigation effects will be felt once so established so are considered at Year 15 below.	Major (Significant), following 15 years the effect will be Moderate (Significant)
Wales Coast Path	Medium magnitude of change on high sensitivity users	Visual Effects (Year 1 and 15 of Operation)	Moderate Adverse (Significant)	N/A	Moderate (Significant), following 15 years the effect will be Moderate (Significant)
Redwick Circular Route	High magnitude of change on high	Visual Effects (Year 1 and 15 of Operation)	Major Adverse (Significant)	Implementing management of hedgerows to improve screening	Major (Significant), following 15 years the effect will be Major (Significant)

	sensitivity users			Supplementary planting of replacement hedges and gapping up. Mitigation effects will be felt once so established so are considered at Year 15 below.	
Users of Other Footpaths/PRoW crossing through the Proposed Development	High magnitude of change on high sensitivity users	Visual Effects (Year 1 and 15 of Operation)	Major Adverse (Significant)	Implementing management of hedgerows to improve screening Supplementary planting of replacement hedges and gapping up. Mitigation effects will be felt once so established so are considered at Year 15 below.	Major (Significant), following 15 years the effect will be Major (Significant)
Users of Green Lanes	Medium magnitude of change on high sensitivity users	Visual Effects (Year 1 and 15 of Operation)	Moderate Adverse (Significant)	Implementing management of hedgerows to improve screening Supplementary planting of replacement hedges and gapping up. Mitigation effects will be felt once so established so are considered at Year 15 below.	Moderate (Significant) following 15 years the effect will be Moderate (Significant)
LCA A2: Caldicot Level	High magnitude of change, on medium	Landscape Effects (rest of Operation following Year 15)	Moderate Adverse (Significant)	Detailed planting strategy to include reinforcement of existing hedgerows, gapping up and	Moderate (Significant)

	sensitivity landscape.				management of existing hedgerows to grow out and improve screening along the southern boundary of the Proposed Development.	
The Caldicot Level Special Landscape Area	High magnitude of change, on medium sensitivity landscape.	Landscape Effects (rest of Operation following Year 15)	Moderate Adverse (Significant)	N/A		Moderate (Significant)
Residential Properties	Medium scale and high geographic extent on sensitive views	Visual Effects (rest of Operation following Year 15)	Moderate Adverse (Significant)		Manage hedgerows to improve screening. Supplementary planting of replacement hedges and gapping up.	Moderate (Significant)
Wales Coast Path	Medium magnitude of change on high sensitivity users	Visual Effects upon Recreational Routes and Destinations (rest of Operation following Year 15)	Moderate Adverse (Significant)		Detailed planting strategy to include reinforcement of existing hedgerows, gapping up and management of existing hedgerows to grow out and improve screening along the southern boundary of the Proposed Development. Additional landscape features within the ecological buffer along the southern boundary of	Moderate (Significant)

				the Proposed Development.	
Redwick Circular Route	High magnitude of change on high sensitivity users	Visual Effects upon Recreational Routes and Destinations (rest of Operation following Year 15)	Major Adverse (Significant)	Manage hedgerows to improve screening Supplementary planting of replacement hedges and gapping up.	Major (Significant)
Users of Other Footpaths/PRoW crossing through the DCO Proposed Development Site	High magnitude of change on high sensitivity users	Visual Effects upon Recreational Routes and Destinations (rest of Operation following Year 15)	Major Adverse (Significant)	Manage hedgerows to improve screening Supplementary planting of replacement hedges and gapping up.	Major (Significant)
Users of Green Lanes	Medium magnitude of change on high sensitivity users	Visual Effects upon Recreational Routes and Destinations (rest of Operation following Year 15)	Moderate Adverse (Significant)	Manage hedgerows to improve screening.	Moderate (Significant)
Chapter 12: Glint & Glare					
2 route receptors	Medium	Glare	Negligible (Not Significant)	N/A	Negligible (Not Significant)
9 route receptors	Medium	Glare	Minor Adverse (Not Significant)	N/A	Minor Adverse (Not Significant)
33 dwelling receptors	Medium	Glare	Negligible (Not Significant)	N/A	Negligible (Not Significant)
49 dwelling receptors	Medium	Glare	Minor Adverse (Not Significant)	N/A	Minor (Not Significant)
Chapter 13: Noise and Vibration					
Receptors R02 – R20	Medium	Impacts due to operational noise during the daytime.	Not Significant	N/A	Not Significant

<p>Approximately one quarter of the dwellings identified in Table 13.7 of Chapter 13: Noise and Vibration</p>	<p>Medium</p>	<p>Impacts due to operational noise during the evening.</p>	<p>Significant or potentially Significant</p>	<p>Mitigation to the fixed plant to reduce operational noise levels.</p> <p>Indicative requirements for mitigation measures to control operational noise will be set out in the ES.</p> <p>The requirements for mitigation will be confirmed in an ONMP.</p>	<p>Not Significant</p>
<p>Other dwellings identified in Table 13.7 of Chapter 13: Noise and Vibration</p>	<p>Medium</p>	<p>Impacts due to operational noise during the evening.</p>	<p>Not Significant</p>	<p>N/A</p>	<p>Not Significant</p>
<p>Majority of dwellings identified in Table 13.7 of Chapter 13: Noise and Vibration</p>	<p>Medium</p>	<p>Impacts due to operational noise during the night-time.</p>	<p>Significant or Potentially Significant</p>	<p>Mitigation to the fixed plant to reduce operational noise levels.</p> <p>Indicative requirements for mitigation measures to control operational noise will be confirmed in the ES.</p> <p>The requirements for mitigation will be confirmed in an ONMP.</p>	<p>Not Significant</p>

Two dwellings identified in Table 13.7 of Chapter 13: Noise and Vibration	Medium	Impacts due to operational noise during the night-time.	Not Significant	N/A	Not Significant
Wales Coast Path (Receptor R01)	Medium	Impacts due to operational noise.	Not Significant	N/A	Not Significant
Chapter 14: Socio-economics, Tourism and Recreation					
FTE Farming Jobs	Medium	Socio-economics and Labour Market Impacts	Adverse - Minor (Not Significant)	N/A	Minor (Not Significant)
FTE Professional, scientific and technical Jobs	Medium	Socio-economics and Labour Market Impacts	Beneficial - Negligible (Not Significant)	N/A	Beneficial - Negligible (Not Significant)
Wales Coast Path (within Study Area)	High	Impacts upon Tourism	Adverse - Major (Significant)	N/A	Major (Significant)
NCN Route 4 (within Study Area)	High	Impacts upon Tourism	Adverse - Major (Significant)	N/A	Major (Significant)
Redwick Circular Route (promoted walk)	Medium	Impacts upon Tourism	Moderate (Probably Significant)	N/A	Moderate (Probably Significant)
Local PRoW network	Medium / Low	Impacts upon Tourism	Moderate (Probably Significant) / Minor (Not Significant)	N/A	Moderate (Probably Significant) / Minor (Not Significant)
Wales Coast Path (within Study Area)	High	Impacts upon Tourism	Major (Significant)	N/A	Major (Significant)
Redwick Circular Route (promoted walk)	Low	Impacts upon Tourism	Moderate (Probably Significant)	N/A	Moderate (Probably Significant)

Magor Marsh Nature Reserve	High	Impacts upon Tourism	No change	N/A	No change
Procurator's House	Low	Impacts upon Tourism	No change	N/A	No change
Rogiet Countryside Park	Medium	Impacts upon Tourism	No change	N/A	No change
Rogiet Poorland – Gwent Wildlife Trust	Low	Impacts upon Tourism	No change	N/A	No change
Geraint Thomas National Velodrome of Wales	Very high	Impacts upon Tourism	No change	N/A	No change
Newport Stadium	Very high	Impacts upon Tourism	No change	N/A	No change
Newport International Sports Village	Very high	Impacts upon Tourism	No change	N/A	No change
RSPB Newport Wetlands National Nature Reserve	High	Impacts upon Tourism	No change	N/A	No change
International Convention Centre Wales	Very high	Impacts upon Tourism	No change	N/A	No change
Penhow Woodlands National Nature Reserve	High	Impacts upon Tourism	No change	N/A	No change
Brockwells Meadows – Gwent Wildlife Trust	Low	Impacts upon Tourism	No change	N/A	No change
Chapter 15: Transport and Access					

Users of local highway network, PRow Footpaths and Restricted Byway, Wales Coast Path and National Cycle Network Route 4	Low	Severance: Additional vehicles on the local highway network	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Road vehicle drivers and passengers of local highway network	Low	Road Vehicle Driver and Passenger Delay: Additional vehicles on the local highway network	Slight Adverse or Neutral (Not Significant)	N/A	Slight or Neutral (Not Significant)
Non-motorised Users of local highway network	Low	Non-motorised User Amenity and Delay: Additional HGVs on the local highway network	To be determined at ES stage.	N/A	To be determined at ES stage.
Users of local PRow, Wales Coast Path and National Cycle Network Route 4 within Study Area	Low	Non-motorised User Amenity and Delay: Additional HGVs on the local highway network	Slight Adverse or Neutral (Not Significant)	N/A	Slight or Neutral (Not Significant)
Users of local highway network	Low	Fear and Intimidation on and by Road Users: Additional HGVs on the local highway network	To be determined at ES stage.	N/A	To be determined at ES stage.
Users of local PRow, Wales Coast Path and National Cycle Network Route 4 within Study Area	Low	Fear and Intimidation on and by Road Users: Additional HGVs on the local highway network	Neutral (Not Significant)	N/A	Neutral (Not Significant)

Users of local highway network	Low	Road user and Pedestrian Safety: Additional vehicles on the local highway network	To be determined at ES stage.	N/A	To be determined at ES stage.
Users of local PRowS, Wales Coast Path and National Cycle Network Route 4 within Study Area	Low	Road user and Pedestrian Safety: Additional vehicles on the local highway network	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Chapter 16: Ground Conditions					
Soil resources	Medium	Presence of Solar Panels on land and changes to soil health / soil structure and soil function	Neutral or Slight (Not Significant)	N/A	Neutral or Slight (Not Significant)
Land contamination receptors	Variable	Spills or leaks	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Land contamination receptors	Variable	Degradation of or damage to the PV Modules	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Chapter 17: Other Environmental Topics					
Underground Utilities	High	Damage to underground utilities	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Human Receptors	High	Harm to health from waste	Negligible (Not Significant)	N/A	Negligible (Not Significant)

Table 19-3 Summary of residual environmental effects during decommissioning phase of the Proposed Development

Description of Identifier / receptor	Sensitivity of receptor	Anticipated Impact	Significance of impact/effect	Mitigation	Residual Effect and Reinstatement of Significance
Chapter 6: Greenhouse Gases					
Global Climate	High	Emissions from decommissioning phase – 58,089 tCO _{2e}	Minor Adverse (Not Significant)	N/A	Minor (Not Significant)
Chapter 7: Cultural Heritage and Archaeology					
No residual effects were identified for the Proposed Operations during the decommissioning phase.					
Chapter 8: Ecology					
Severn Estuary Ramsar/ SAC/ SSSI	International or European	Water pollution via reen network	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
		Crossing points resulting in localised siltation.			
River Usk SAC	International or European	Dust	Negligible (Not Significant)	N/A	Negligible (Not Significant)
		Water pollution via reen network			
Gwent Levels (covering Magor and Undy SSSI, Redwick)	National	Crossing points resulting in localised siltation.	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
		Impacts on otter during culvert/ bridge installation			
		Siltation			
		Water quality/ quantity impacts			

and Llandevenny SSSI, Whitson SSSI and Nash and Goldcliff SSSI)		Pollution of watercourses Temporary impacts to shrill carder bee habitats			
Magor Marsh SSSI	National	Hydrology/ Water quantity	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
Newport Wetlands SSSI/ NNR	National	Hydrology/ Water quantity	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
Non-statutory sites	Country	Water pollution Hydrology/ Water quantity	Negligible (Not Significant)	Refer to Chapter 10 Water Environment.	Negligible (Not Significant)
Coastal Floodplain Grazing Marsh	Local	Permanent land take for grid yard/ compound. Land take for footings and access tracks. Rutting/ compaction of fields in wet weather	Minor (Not Significant)	N/A	Minor (Not Significant)
Wet reens/ ditches	National	Siltation Run-off Temporary impacts to channel/ bank	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Hedgerows	Local	Permanent loss of hedgerow at cable/ vehicular crossings	Minor (Not Significant)	To be subject to further review at ES stage.	Minor (Not Significant)

Roosting bats	Local	Lighting	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Commuting / foraging bats	Local	Lighting Hedgerow loss (fragmentation)	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Amphibians	Local	Hedgerow removal at cable crossings causing injury/ mortality Entrapment in excavations	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Dormice	Local	Hedgerow removal at cable crossings causing injury/ mortality and loss of nest sites	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Otter	Local	Avoidance/ behaviour/ disturbance Entrapment in trenches Lighting	Major (Significant)	N/A	Negligible (Not Significant)
Water vole	Local	Impacts to burrows	Minor (Not Significant)	N/A	Minor (Not Significant)
Aquatic invertebrates	Local	Pollution/ siltation at crossing points	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Terrestrial invertebrates	Local	Short-term reversible impacts during installation of cable crossings.	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Reptiles	Local	Small scale habitat loss at cable crossings	Negligible (Not Significant)	N/A	Negligible (Not Significant)
European eel and fish	Local	Pollution/ siltation at crossing points	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Badger	Local	Disturbance	Negligible	N/A	Negligible

		Entrapment in excavations	(Not Significant)		(Not Significant)
Hedgehog	Local	Entrapment in excavations	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Brown hare	Local	Temporary displacement Entrapment in excavations	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Chapter 9: Ornithology					
Severn Estuary Ramsar (ornithological features) and SPA	International or European	Noise disturbance to SPA/ Ramsar birds within the estuary Pollution/ siltation affecting supporting habitat of notified features.	Major (Significant)	Further assessment of noise and screening solutions to be assessed as part of ES.	Major (Significant)
		Pollution/ siltation affecting supporting habitat of notified features.	Negligible (Not Significant)	N/A	Negligible (Not Significant)
		Noise disturbance to SPA/ Ramsar birds within the estuary Pollution/ siltation affecting supporting habitat of notified features.	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Wintering shelduck, snipe and curlew	Local	Noise disturbance to loafing/ foraging areas for shelduck, snipe and curlew resulting in displacement and reduction in available foraging habitat.	Minor (Not Significant)	Further assessment of noise and screening solutions to be assessed as part of ES.	Negligible (Not Significant)
Wintering bird assemblage	Local	Displacement effects due to noise/ visual disturbance.	Negligible (Not Significant)	Further assessment of noise and screening solutions to be assessed as part of ES.	Negligible (Not Significant)
Ground-nesting	Local	Overall loss of nesting habitat.	Minor (Not Significant)	N/A	Minor (Not Significant)

birds (excluding lapwing, curlew, gadwall)					
Breeding lapwing, curlew and gadwall	Local	Noise/ visual disturbance at nesting sites.	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Schedule 1 birds (Barn owl and Cetti's warbler)	Local	Disturbance of nests by dust, noise, personnel and moving plant.	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Other breeding birds	Local	Overall loss of nesting habitat (hedgerows)	Negligible (Not Significant)	N/A	Negligible (Not Significant)
		Overall loss of nesting habitat (hedgerows)	Minor (Not Significant)	Existing hedgerow gaps will be infilled and new scrub planted.	Negligible (Not Significant)
Chapter 10: Water Environment					
Severn Estuary (surface water)	Very High	Increased pollution risks from spillage of fuels or other harmful substances.	Minor (Not Significant)	N/A	Minor (Not Significant)
Severn Estuary (surface water)	Very High	Risk of increased sedimentation.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Monks Ditch, Windmill Reen (Yoke Reen), Mill	High	Increased pollution risks from spillage of fuels or other harmful substances.	Minor (Not Significant)	N/A	Minor (Not Significant)

Reen (surface water)					
Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen (surface water)	High	Risk of increased sedimentation.	Minor or Moderate (Significant)	N/A	Minor or Moderate (Significant)
Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen (surface water)	High	Potential for damage to existing watercourse crossings (culverts and bridges) that could lead to water quality impact.	Minor (Not Significant)	N/A	Minor (Not Significant)
Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen (surface water)	High	Impact to watercourse quality attributes from temporary culverting or other physical modifications.	Minor or Moderate (Significant)	N/A	Minor or Moderate (Significant)
Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back	High	Increased pollution risks from spillage of fuels or other harmful substances.	Minor (Not Significant)	N/A	Minor (Not Significant)

Ditch (surface water)						
Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back Ditch (surface water)	High	Risk of increased sedimentation.	Minor or Moderate (Significant)	N/A	Minor or Moderate (Significant)	
Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back Ditch (surface water)	High	Potential for damage to existing watercourse crossings (culverts and bridges) that could lead to water quality impact.	Minor (Not Significant)	N/A	Minor (Not Significant)	
Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back Ditch (surface water)	High	Impact to watercourse quality attributes from temporary culverting or other physical modifications.	Minor or Moderate (Significant)	N/A	Minor or Moderate (Significant)	
Ordinary watercours es and	Low to High	Increased pollution risks from spillage of fuels or other harmful substances.	Neutral to Minor (Not Significant)	N/A	Neutral to Minor (Not Significant)	

ditches (surface water)					
Ordinary watercourses and ditches (surface water)	Low to High	Risk of increased sedimentation.	Neutral to Moderate (Significant)	N/A	Neutral to Moderate (Significant)
Ordinary watercourses and ditches (surface water)	Low to High	Potential for damage to existing watercourse crossings (culverts and bridges) that could lead to water quality impact.	Neutral to Minor (Not Significant)	N/A	Neutral to Minor (Not Significant)
Ordinary watercourses and ditches (surface water)	Low to High	Impact to watercourse quality attributes from temporary culverting or other physical modifications.	Neutral to Moderate (Significant)	N/A	Neutral to Moderate (Significant)
Usk Devonian Old Red Sandstone (ground water)	Medium	Impacts to groundwater quantity (level and flow) and quality.	Moderate (Significant)	N/A	Moderate (Significant)
Usk and Wye Southern Carboniferous	Low	Impacts to groundwater quantity (level and flow) and quality.	Neutral or Minor (Not Significant)	N/A	Neutral or Minor (Not Significant)

Limestone (ground water)					
Private water supplies (ground water)	Low	Potential reduction in water level (locally) within the Secondary aquifer due to groundwater control measures.	Minor (Not Significant)	N/A	Minor (Not Significant)
GWDTE - Magor Marsh nature reserve (ground water)	Very High	Potential indirect impact to groundwater quantity (level and flow) and quality.	Moderate (Significant)	N/A	Moderate (Significant)
GWDTE - Magor Marsh nature reserve (ground water)	Very High	Potential reduction in water level (locally) within aquifers due to groundwater control measures if sites are hydrogeological connected.	Moderate (Significant)	N/A	Moderate (Significant)
Residential properties, childcare facilities, vulnerable industry/business properties	High to Very High	Increased flood risk from temporary construction works within/adjacent to the floodplain.	Minor (Not Significant)	N/A	Minor (Not Significant)

Agricultural land, sewage treatment works, less vulnerable industry/business properties	Medium	Increased flood risk from temporary construction works within/adjacent to the floodplain.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
The Proposed Development	Medium	Increased flood risk from temporary construction works within/adjacent to the floodplain.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
Residential properties, childcare facilities, vulnerable industry/business properties	High to Very High	Potential damage, obstruction or modification of existing flood defence infrastructure.	Minor (Not Significant)	N/A	Minor (Not Significant)
Agricultural land, sewage treatment works, less vulnerable industry/business properties	Medium	Potential damage, obstruction or modification of existing flood defence infrastructure.	Neutral (Not Significant)	N/A	Neutral (Not Significant)
The Proposed	Medium	Potential damage, obstruction or modification	Neutral (Not Significant)	N/A	Neutral (Not Significant)

Development	of existing flood defence infrastructure.				
Chapter 11: Landscape and Visual Impact Assessment					
LCA A2: Caldicot Level	High magnitude of change decreasing to low, on medium sensitivity landscape.	Landscape Effects	Moderate decreasing to Minor Adverse (Not Significant)	Management of hedgerows to retain screening remains	Moderate decreasing to Minor Adverse (Not Significant)
The Caldicot Level Special Landscape Area	High magnitude of change decreasing to low, on medium sensitivity landscape.	Landscape Effects	Major Adverse (Significant)	N/A	Major Adverse (Significant)
Residential Properties	High scale and geographic extent on sensitive views	Visual Effects	Major Adverse (Significant)	Manage hedgerows to retain screening	Major Adverse (Significant)
Recreational Routes and Destinations	Medium magnitude of change on high sensitivity users	Visual Effects	Moderate Adverse (Significant)	Manage hedgerows to retain screening	Moderate Adverse (Significant)
Chapter 12: Glint and Glare					
No residual effects were identified for the Proposed Operations during the decommissioning phase.					

Chapter 13: Noise and Vibration					
All dwellings (Receptors R02 – R20)	Medium	Impacts due to airborne noise from construction activities	Not Significant	N/A	Not Significant
Wales Coast Path (Receptor R01)	Medium	Impacts due to airborne noise from construction activities	Not Significant	N/A	Not Significant
R08 (and any other dwellings in sufficiently close proximity to impact piling to result in moderate effects to human perception)	Medium	Impacts due to groundborne vibration from construction activities	Potentially Significant	Informing residents of the nature and duration of the proposed works. Requirement to inform residents of the works where moderate effects to human perception are predicted will be set out in the oCEMP.	Not Significant
All other dwellings (Receptors R02 –R07 and R09 – R20)	Medium	Impacts due to groundborne vibration from construction activities	Not Significant	N/A	Not Significant
Chapter 14: Socio-economics, Tourism and Recreation					
FTE Farming Jobs	Medium	Socio-economics and Labour Market Impacts	Minor (Not Significant)	N/A	Minor (Not Significant)

FTE Professional, scientific and technical Jobs	Medium	Socio-economics and Labour Market Impacts	Beneficial - Minor (Not Significant)	N/A	Beneficial - Minor (Not Significant)
FTE Construction Jobs	Medium	Socio-economics and Labour Market Impacts	Beneficial - Moderate (Probably Significant)	N/A	Beneficial - Moderate (Probably Significant)
Wales Coast Path (within Study Area)	High	Impacts upon Recreation	Moderate (Probably Significant)	N/A	Moderate (Probably Significant)
NCN Route 4 (within Study Area)	High	Impacts upon Recreation	Major (Significant)	N/A	Major (Significant)
Redwick Circular Route (promoted walk)	Medium	Impacts upon Recreation	Moderate (Probably Significant)	N/A	Moderate (Probably Significant)
Local PRoW network	Medium / Low	Impacts upon Recreation	Moderate (Probably Significant) / Minor (Not Significant)	N/A	Moderate (Probably Significant) / Minor (Not Significant)
Magor Marsh	High	Impacts upon Recreation	Minor (Not Significant)	N/A	Minor (Not Significant)

Nature Reserve					
Wales Coast Path (within Study Area)	High	Impacts upon Tourism	Major (Significant)	N/A	Major (Significant)
Redwick Circular Route (promoted walk)	Low	Impacts upon Tourism	Moderate (Probably Significant)	N/A	Moderate (Probably Significant)
Magor Marsh Nature Reserve	High	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
Procurator's House	Low	Impacts upon Tourism	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Rogiet Countryside Park	Medium	Impacts upon Tourism	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Rogiet Poorland – Gwent Wildlife Trust	Low	Impacts upon Tourism	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Geraint Thomas National Velodrome of Wales	Very high	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
Newport Stadium	Very high	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)

Newport International Sports Village	Very high	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
RSPB Newport Wetlands National Nature Reserve	High	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
International Convention Centre Wales	Very high	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
Penhow Woodlands National Nature Reserve	High	Impacts upon Tourism	Minor (Not Significant)	N/A	Minor (Not Significant)
Brockwells Meadows – Gwent Wildlife Trust	Low	Impacts upon Tourism	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Chapter 15: Transport and Access					
Users of local highway network, PRow Footpaths and	Low	Severance: Additional vehicles on the local highway network	Neutral (Not Significant)	N/A	Neutral (Not Significant)

Restricted Byway, Wales Coast Path and National Cycle Network Route 4						
Road vehicle drivers and passengers of local highway network	Low	Road vehicle drivers and passenger delay	To be determined at ES stage.	N/A		To be determined at ES stage.
Non-motorised Users of local highway network	Low	Non-motorised User Amenity and Delay: Additional HGVs on the local highway network	To be determined at ES stage.	N/A		To be determined at ES stage.
Users of local PRowS, Wales Coast Path and National Cycle Network Route 4	Low	Non-motorised User Amenity and Delay: Additional HGVs on the local highway network	Slight Adverse or Neutral (Not Significant)	N/A		Slight Adverse or Neutral (Not Significant)

within Study Area					
Users of local highway network	Low	Fear and Intimidation on and by Road Users: Additional HGVs on the local highway network	To be determined at ES stage.	N/A	To be determined at ES stage.
Users of local PRowS, Wales Coast Path and National Cycle Network Route 4 within Study Area	Low	Fear and Intimidation on and by Road Users: Additional HGVs on the local highway network	Slight Adverse or Neutral (Not Significant)	N/A	Slight Adverse or Neutral (Not Significant)
Users of local highway network	Low	Road user and Pedestrian Safety: Additional vehicles on the local highway network	To be determined at ES stage.	N/A	To be determined at ES stage.
Users of local PRowS, Wales Coast Path and National Cycle Network Route 4	Low	Road user and Pedestrian Safety: Additional vehicles on the local highway network	Neutral (Not Significant)	N/A	Neutral (Not Significant)

within Study Area					
Chapter 16: Ground Conditions					
Soil resources	Medium	Construction – Land take, soil removal / soil sealing.	Moderate (Not Significant)	N/A	Moderate (Not Significant)
Soil resources	Medium	Compaction of soil by vehicles/ construction plant during temporary development/ maintenance activities and compaction of soil during soil handling (e.g., excavation, stockpiling, reinstatement) leading to damage to soil structure and damage to/loss of soil functions; and Erosion of soil during temporary development/ maintenance activities (bare soils exposed to weather effects or stockpiled), leading to loss of organic matter in runoff (and potential impacts on surface water quality).	Slight (Not Significant)	N/A	Slight (Not Significant)
Land contaminat ion receptors	Variable	Mobilisation of contaminants due to ground disturbance e.g., dust generation, contaminated run-off, creation of new pollutant migration pathways during excavation or construction,	Negligible (Not Significant)	N/A	Negligible (Not Significant)

		failure to manage and segregate excavated materials appropriately.			
Land contamination receptors	Variable	Spills or leaks	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Land contamination receptors	Variable	Degradation of or damage to the PV Modules	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Chapter 17: Other Environmental Topics					
Underground Utilities	High	Damage to underground utilities	Negligible (Not Significant)	N/A	Negligible (Not Significant)
Human Receptors	High	Harm to health from waste	Negligible (Not Significant)	N/A	Negligible (Not Significant)

19.3 Likely Significant Residual Effects

19.3.1 The residual effects which are identified as moderate or major and therefore considered to be 'likely significant environmental effects' of the Proposed Development, are summarised below.

19.3.2 The PEIR has identified several potential residual effects (meaning effects that remain after the implementation of mitigation) as moderate or major and therefore considered to be 'likely significant environmental effects' of the Proposed Development, summarised in the following sections below.

Construction Phase

19.3.3 Throughout the construction phase of the Proposed Development the following **Significant** effects have been identified:

- **Cultural Heritage and Archaeology:**
 - C8 – Small agricultural Building - Impacts upon setting –Moderate (**Significant**)
 - Footbridges near Redwick – Impacts upon setting - Moderate (**Significant**)
 - Footbridges near Goldcliff – Impacts upon setting - Moderate (**Significant**)
- **Ornithology**
 - Severn Estuary Ramsar (ornithological features) and SPA - Noise disturbance to SPA/ Ramsar birds within the estuary - Major (**Significant**)
- **Water Environment**
 - Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen (surface water) - Risk of increased sedimentation –Minor or Moderate (**Significant**)
 - Monks Ditch, Windmill Reen (Yoke Reen), Mill Reen (surface water) - Impact to watercourse quality attributes from temporary culverting or other physical modifications –Minor or Moderate (**Significant**)
 - Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back Ditch (surface water) - Risk of increased sedimentation - Minor or Moderate (**Significant**)
 - Elver Pill Reen, Cold Harbour Reen, Collister Pill, Back Ditch (surface water) - Impact to watercourse quality attributes from temporary

- culverting or other physical modifications - Minor or Moderate **(Significant)**
- Ordinary watercourses and ditches (surface water) - Risk of increased sedimentation - Neutral to Moderate **(Significant)**
- Ordinary watercourses and ditches (surface water) - Impact to watercourse quality attributes from temporary culverting or other physical modifications - Neutral to Moderate **(Significant)**
- Usk Devonian Old Red Sandstone (ground water) - Impacts to groundwater quantity (level and flow) and quality - Moderate **(Significant)**
- GWDTE - Magor Marsh nature reserve (ground water) - Potential indirect impact to groundwater quantity (level and flow) and quality - Moderate **(Significant)**
- GWDTE - Magor Marsh nature reserve (ground water) - Potential reduction in water level (locally) within aquifers due to groundwater control measures if sites are hydrogeological connected - Moderate **(Significant)**
- **LVIA**
 - The Caldicot Level Special Landscape Area – Visual Effects - Major **(significant)**
 - Porton House, Church Farm, and properties in Summerleaze (and outlying residential property surrounding the east of the Proposed Development_ – Visual Effects - Major **(Significant)**
 - Wales Coast Path, Redwick Circular Route, Users of Other Footpaths/PRoW crossing through the Proposed Development, Footpath 372/58/3,5,1,7, Users of Green Lanes, Users of the National Cycle Network (NCN) Route 4 – Visual Effects - Major **(Significant)**
 - Users of North Row, Users of local road Bowleaze Reen, Users of local road along Parish Reen – Visual Effects - Major **(Significant)**
- **Socio-economics, Tourism and Recreation**
 - FTE Construction Jobs - Socio-economics and Labour Market Impacts – Beneficial Moderate **(Probably Significant)**
 - Wales Coast Path – Impacts upon recreation –Moderate **(Probably Significant)**
 - NCN Route 4 - Impacts upon Recreation - Major **(Significant)**
 - Redwick Circular Route - Impacts upon Recreation - Moderate **(Probably Significant)** / Minor (Not Significant)

- Local PRoW network - Impacts upon Recreation - Moderate (**Probably Significant**) / Minor (Not Significant)
- Wales Coast Path – Impacts upon tourism –Major (**Significant**)
- Redwick Circular Route - Impacts upon tourism –Moderate (**Probably Significant**)

Operational Phase

19.3.4 Throughout the operational phase of the Proposed Development the following **Significant** effects have been identified:

- **Greenhouse Gases**
 - Global Climate - Beneficial (**Significant**)
- **Ecology**
 - Gwent Levels (covering Magor and Undy SSSI, Redwick and Llandevenny SSSI, Whitson SSSI and Nash and Goldcliff SSSI) - Run-off/ hydrology Beneficial effects from change in management - Major Beneficial (**Significant**)
 - Wet reens/ ditches - Run-off/ hydrology - Beneficial or adverse effects from change in management - Major Beneficial (**Significant**)
- **Landscape and Visual Impact Assessment**
 - The Caldicot Level Special Landscape Area – Changes to landscape – Major (**Significant**)
 - Porton House – Visual effects - Major (**Significant**)
 - Church Farm – Visual effects - Major (**Significant**)
 - Summerleaze and outlying residential property – Visual effects - Major (**Significant**)
 - Wales Coast Path – Visual effects - Moderate (**Significant**)
 - Redwick Circular Route – Visual effects - Major (**Significant**)
 - Users of Other Footpaths/PRoW crossing through the Proposed Development – Visual effects - Major (**Significant**)
 - Users of Green Lanes – Visual effects - Major (**Significant**)
 - LCA A2: Caldicot Level – Changes to landscape - Moderate (**Significant**)
 - The Caldicot Level Special Landscape Area – Changes to landscape - Moderate (**Significant**)

- Porton House, Church Farm, residences in Summerleaze (and outlying residential property surrounding the east of the Proposed Development)– Visual effects - Moderate (**Significant**)
- Wales Coast Path – Visual effects - Moderate (**Significant**)
- Redwick Circular Route – Visual effects - Major (**Significant**)
- Users of Other Footpaths/PRoW crossing through the Site– Visual effects - Major (**Significant**)
- Users of Green Lanes - Visual effects - Moderate (**Significant**)
- **Socio-economics, Tourism and Recreation**
 - Wales Coast Path - Impacts upon recreation - Major (**Significant**)
 - NCN Route 4 - Impacts upon Recreation - Major (**Significant**)
 - Redwick Circular Route - Impacts upon recreation - Moderate (**Significant**)
 - Local PRoW network - Impacts upon recreation - Moderate (**Significant**)
 - Wales Coast Path - Impacts upon tourism - Major (**Significant**)

Decommissioning Phase

19.3.5 Throughout the decommissioning phase of the Proposed Development the residual effects identified in **paragraph 19.3.3** and are considered to be the same as those identified for the construction phase.