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18. SUMMARY OF SIGNIFICANT EFFECTS

18.1 Introduction

18.1.1 Chapters 6 to 16 of this Preliminary Environmental Information (PEI) Report have considered the potential environmental impacts and effects of the Proposed Development. This chapter of the PEI Report provides a summary of those adverse and beneficial environmental effects that are considered to be significant (i.e. moderate and major effects).

18.2 Significant Environmental Effects and Proposed Mitigation Measures

18.2.1 Table 17.1 summarises the significant environmental effects of the Proposed Development that have been identified, following implementation of the embedded mitigation or impact avoidance measures included in the design of the Proposed Development (as detailed in Chapters 6 to 16, where relevant). Table 17.1 also summarises any additional mitigation measures that have been identified in the technical assessments contained in the PEI Report. Cumulative and combined effects are included separately at the end of the table.

18.2.2 As outlined in Chapter 2: Assessment Methodology, for the purposes of this PEI Report an effect is considered to be 'significant' if it is assessed to be moderate (adverse or beneficial) or major (adverse or beneficial). Minor and neutral effects are only referenced in this chapter where a 'significant' effect has been reduced to a 'not significant' effect following mitigation.

18.2.3 To provide further clarification on the nature of the effects, each has been identified as:

- Short term (St) – effects occurring only over a short period of time, e.g. an effect that only lasts for the duration of the construction period, or one that lasts for only part of the operational phase;
- Medium term (Mt) – effects occurring for the duration of the development's operation, but which cease when operations cease; or
- Long term (Lt) – effects occurring beyond the operation of the proposed scheme, for example the permanent change to archaeology;
- Temporary (T) – effects that are not permanent because the effect would no longer occur if the impact was removed within the relevant timescale (for example the visual amenity impact of construction structures would be described as St, T as the impact goes when the structures are removed);
- Permanent (P) – effects that are permanent and cannot be readily reversed within the relevant timescale (for example an environmental feature that is lost and cannot be replaced until after decommissioning would be Mt, P. In the event that it could not be replaced at all, this would be Lt, P); and
- Direct (D) – effects that result from a direct impact, for example , the loss of ecological habitat; or

- Indirect (In) – also known as secondary effects, are effects that result indirectly, for example, increased traffic could indirectly impact on air quality or creation of construction jobs can indirectly impact upon the local area through increased use of services/ goods.

Table 18.1: Summary of significant effects

Development stage	Environmental effect (following development design and impact avoidance measures)	Classification of effect prior to mitigation	Mitigation/ enhancement (if identified)	Classification of residual effect after mitigation	Nature of effect(s) (Lt/ Mt/ St and P/ T and D/ In)
Chapter 6: Air Quality					
Construction	No significant effects identified.				
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				
Chapter 7: Traffic and Transport					
Construction	No significant effects identified.				
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				
Chapter 8: Noise and Vibration					
Construction	No significant effects identified.				
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				
Chapter 9: Ecology					
Construction	No significant effects identified.				
Operation	No significant effects identified.				
Chapter 10: Landscape and Visual					
Construction	No significant effects identified.				

Development stage	Environmental effect (following development design and impact avoidance measures)	Classification of effect prior to mitigation	Mitigation/ enhancement (if identified)	Classification of residual effect after mitigation	Nature of effect(s) (Lt/ Mt/ St and P/ T and D/ In)
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				
Chapter 11: Ground Conditions and Hydrogeology					
Construction	No significant effects identified.				
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				
Chapter 12: Surface Water, Flood Risk and Drainage					
Construction	No significant effects identified.				
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				
Chapter 13: Cultural Heritage					
Construction	Construction of the Proposed Development an impact on Iron Age Ditch (A17)	Moderate adverse (significant).	If impacts cannot be avoided by design, a programme of archaeological excavation and reporting will be undertaken prior to construction.	Moderate adverse (significant).	Lt, P, D
Construction	Construction of Proposed Construction Laydown Area may impact the Square Enclosure (A26).	Moderate adverse (significant).	If impacts cannot be avoided by design, a programme of archaeological excavation	Moderate adverse (significant).	Lt, P, D

Development stage	Environmental effect (following development design and impact avoidance measures)	Classification of effect prior to mitigation	Mitigation/ enhancement (if identified)	Classification of residual effect after mitigation	Nature of effect(s) (Lt/ Mt/ St and P/ T and D/ In)
			and reporting will be undertaken prior to construction.		
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				
Chapter 14: Socio Economics					
Construction	Net employment generated during the construction phase	Moderate beneficial (significant).	None applicable	Moderate beneficial (significant).	St, T, D
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				
Chapter 15: Sustainability & Climate Change					
Construction	No significant effects identified.				
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				
Chapter 16: Human Health					
Construction	No significant effects identified.				
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				

Development stage	Environmental effect (following development design and impact avoidance measures)	Classification of effect prior to mitigation	Mitigation/ enhancement (if identified)	Classification of residual effect after mitigation	Nature of effect(s) (Lt/ Mt/ St and P/ T and D/ In)
Chapter 17: Cumulative and Combined Effects					
Construction	No significant effects identified.				
Operation	No significant effects identified.				
Decommissioning	No significant effects identified.				

18.3 References

None Applicable