

A303 Amesbury to Berwick Down

TR010025

6.3 Environmental Statement Appendices

Appendix 10.5 Non-Significant Effects

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

October 2018



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10 Non-Significant Effects Summary

Table 10-1 Summary of non-significant effects – construction

Potential Impact	Receptor	Attribute	Receptor Sensitivity	Design and Mitigation Measures	Impact magnitude	Residual effect	
Exposure to soil contamination	On-site users	Residential	High	Further ground investigations prior to construction and where unacceptable risks are identified, remediation of contaminated soil/groundwater. Remediation strategies may involve source removal or pathway intervention as appropriate. Measures contained within the OEMP with regards to soils handling and storage will control the impact resulting in a low and very low risk to these receptors.	Neutral effect	Neutral effect	
		Commercial/ public open space	Moderate		Neutral effect	Neutral effect to minor beneficial effect	
	Off-site users	Residential	High		Neutral effect	Neutral effect	
		Commercial/ public open space	Moderate		Neutral effect	Neutral effect	
Exposure to groundwater contamination	On-site users	Residential	High		Measures contained within the OEMP with regards to soils handling and storage will control the impact resulting in a low and very low risk to these receptors.	Neutral effect	Neutral effect
		Commercial/ public open space	Moderate			Neutral effect	Neutral effect to minor beneficial effect
	Off-site users	Residential	High			Neutral effect to minor adverse effect	Neutral effect
		Commercial/ public open space	Moderate			Neutral effect to minor adverse effect	Neutral effect
Exposure to ground gas	On-site users	Residential	High	None required as there are no known potential gas sources on the sites.		N/A	Neutral effect
		Commercial/ public open space	Moderate			Neutral effect	Neutral effect
	Off-site users	Residential	High			Neutral effect	Neutral effect
		Commercial/ public open space	Moderate			Neutral effect	Neutral effect

Potential Impact	Receptor	Attribute	Receptor Sensitivity	Design and Mitigation Measures	Impact magnitude	Residual effect
Contaminated soil, leachate/groundwater and pollution of aquifers	Groundwater	Principal Aquifer	High	Further ground investigations prior to construction and where risks are identified, remediation of contaminated soil/groundwater. Remediation strategies may involve source removal or pathway intervention as appropriate. The impact will be controlled through appropriate hazardous materials storage and handling, pollution response and environmental management; the principles of which will be set out in the OEMP.	Neutral effect to minor adverse effect	Neutral effect to minor beneficial effect
		Secondary A aquifer	Moderate		Neutral effect to minor adverse effect	Neutral effect to minor beneficial effect
		Secondary (undifferentiated) aquifer	Low		Neutral effect to minor adverse effect	Neutral effect to minor beneficial effect
Contaminated soil, leachate/groundwater and impact on surface watercourses	Surface water	River Till	High		Neutral effect	Neutral effect
		River Avon	High		Neutral effect to minor adverse effect	Neutral effect to minor beneficial effect
Impact on property receptors: exposure to explosive gases and/or aggressive ground conditions	Property	Buildings, foundations, and services (on-site and off-site)	Low	Sulphate aggressivity analysis results in the GIR to inform the correct specification of concrete.	Neutral effect to minor adverse effect	Neutral effect
Impact on ecological designations: vertical and lateral migration of leachate/groundwater contamination and/or direct contact with soil contamination.	Ecological designations	SSSI - Parsonage Down	High	Further ground investigations prior to construction and where risks are identified, remediation of contaminated soil/groundwater. Remediation strategies may involve source removal or pathway intervention as appropriate.	Neutral effect	Neutral effect
		National Nature Reserve - Parsonage Down	High		Neutral effect	Neutral effect
		SSSI - Salisbury Plain	High	The impact will be controlled through appropriate hazardous materials storage and handling, pollution response and environmental management; the principles of which will be set out in the OEMP.	Neutral effect	Neutral effect
		SSSI - River Till	High		Neutral effect	Neutral effect
		SSSI - River Avon	High		Neutral effect to minor adverse effect	Neutral effect to minor beneficial effect

Table 10-2 Summary of non-significant effects – operation

Potential Impact	Receptor	Attribute	Receptor Sensitivity	Design and Mitigation Measures	Impact Magnitude	Residual effect
Potential for polluted highway run-off and drainage to be directed towards groundwater and surface water receptors with the new highways drainage system acting as a rapid pollutant pathway.	Groundwater	Principal Aquifer	High	Measures that will contain and control any releases of contaminants along the highway and its associated infrastructure such as drainage control. These include measures in the drainage design to prevent/minimise the risk of discharging pollutants into the Chalk aquifer via drainage pathways and control surface water runoff at its source.	Neutral effect	Neutral effect
	Surface water	River Till	High		Neutral effect	Neutral effect
		River Avon	High		Neutral effect	Neutral effect
Potential for impacts arising from pollutants e.g. fuel spillages, to pass directly into the aquifer, bypassing the drainage system such as in the proposed tunnel where the invert will sit directly onto the Chalk	Groundwater	Principal Aquifer	High		Neutral effect	Neutral effect

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