

Appraisal Summary Table

Option: A419 Blunsdon Bypass		Description: 3.5km dual carriageway bypass of Blunsdon village with a grade separated junction which provides a free flowing A419	Problems: High level of congestion particularly at peak times, and a high accident rate	Scheme Cost £65.490 m
OBJECTIVE	SUB-OBJECTIVE	QUALITATIVE IMPACTS	QUANTITATIVE ASSESSMENT	ASSESSMENT
ENVIRONMENT	Noise	Overall improvement due to the scheme. Substantial reductions in noise at 20 properties close to existing route of A419. Substantial increases in noise at 1 property at the end of Widhill Lane and another in Lady Lane. Mitigation has been designed to reduce noise impacts where practicable and effective.	Do minimum 654 people annoyed, Do something 569 people annoyed	Estimated population annoyed by noise, 83 people less annoyed.
	Local Air Quality	Does not affect an AQMA. No predicted exceedences of the objective. >1µg/m ³ increases in PM ₁₀ concentration, but concentrations well below objective.	207 properties with an improvement, 140 properties with a deterioration.	PM ₁₀ = -208.6, NO ₂ = -630.6
	Greenhouse Gases	Increase due to increase in speed and distance travelled.	Neutral (0.0011% increase in UK)	5980 tonnes CO2 increase
	Landscape	Reduced lighting combined with landscape mitigation will improve views in the north and central sections of the scheme (designated Area of Local Landscape Interest). To the south of the scheme new planting will provide enhancement. There will be a reduction in visible traffic movements through Blunsdon.		Slight Beneficial
	Townscape	No effect on Townscape.		Neutral
	Heritage of Historic Resources	Slight adverse impacts upon the rural historic landscape and the setting of the Listed building at Upper Widhill Farm.		Slight adverse
	Biodiversity	Loss and severance of species rich hedgerows from Lady Lane to the bottom of Blunsdon Hill affecting habitat connectivity. Main Badger sett would be lost. Appropriate mitigation for these impacts has been identified.		Slight adverse
	Water Environment	Features and elements present in the water environment are typical of the locality and the scheme will have negligible impacts on surface and ground water quality, quantity and flow.		Neutral
	Physical Fitness	The scheme will not result in a significant increase in pedestrian journey times, and will provide new facilities and improve NMU amenity which could facilitate increased future use.	1155 – Pedestrians, 394 – cyclists current number of non motorised users	Minor health benefits
	Journey Ambience	There are significant beneficial impacts in relation to driver stress, but the scheme will result in the loss of traveller facilities.		Neutral
SAFETY	Accidents	The removal of through traffic from Blunsdon and at Turnpike roundabout results in a reduction in accidents.	Accidents -225, Deaths -6, Serious -28, Slight -233	PVB £10.8m
	Security	No adverse impact.		Slight beneficial
ECONOMY	Public Accounts		Investment cost = £58m Indirect tax revenues = £-40.8m	PVC £17.2m
	Transport Economic Efficiency: Business Users & Transport Providers	The Scheme provides significant benefits. A BCR ratio of 5.1 is estimated.	Provides benefits to the business users and transport of £14.8m	PVB £14.8m
	Transport Economic Efficiency: Consumers	The Scheme provides significant benefits. A BCR ratio of 5.1 is estimated.	Provides benefits to the consumers of £62.8m	PVB £62.8m
	Reliability	Grade separation will minimise unreliability for A419 through traffic.		Moderate beneficial
	Wider Economic Impacts	Not a Regeneration Area.	N/A	N/A
ACCESSIBILITY	Option values	No adverse impact.	Neutral	Neutral
	Severance	The scheme will reduce severance for over 1000 known NMU movements and the improved facilities may increase usage as a result of the scheme.	N/A	Large Beneficial
	Access to the Transport System	No overall impact on alternative modes.	Neutral	Neutral
INTEGRATION	Transport Interchange	None	N/A	N/A
	Land-Use Policy	The scheme has indirect beneficial impact on major development allocated in North Swindon although these are not dependent on the scheme.		Beneficial
	Other Government Policies	Assists in achieving Government policies through improving a strategic route and contributing to economic prosperity and social integration in an environmentally conscious manner		Beneficial