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Importance	Criteria	Typical Examples
Very High	Attribute has a high quality, significance or value on a regional or national scale Degree or extent of soil contamination is significant on a national or regional scale Volume of peat and/or soft organic soil underlying route is significant on a national or regional scale*	Geological feature rare on a regional or national scale (NHA) Large existing quarry or pit Proven economically extractable mineral resource
High	Attribute has a high quality, significance or value on a local scale Degree or extent of soil contamination is significant on a local scale Volume of peat and/or soft organic soil underlying route is significant on a local scale*	Contaminated soil on site with previous heavy industrial usage Large recent landfill site for mixed wastes Geological feature of high value on a local scale (County Geological Site) Well drained and/or highly fertility soils Moderately sized existing quarry or pit Marginally economic extractable mineral resource
Medium	Attribute has a medium quality, significance or value on a local scale Degree or extent of soil contamination is moderate on a local scale Volume of peat and/or soft organic soil underlying route is moderate on a local scale*	Contaminated soil on site with previous light industrial usage Small recent landfill site for mixed wastes Moderately drained and/or moderate fertility soils Small existing quarry or pit Sub-economic extractable mineral resource
Low	Attribute has a low quality, significance or value on a local scale Degree or extent of soil contamination is minor on a local scale Volume of peat and/or soft organic soil underlying route is small on a local scale*	Large historical and/or recent site for construction and demolition wastes Small historical and/or recent landfill site for construction and demolition wastes Poorly drained and/or low fertility soils Uneconomically extractable mineral resource

Box 4.1: CRITERIA FOR RATING SITE ATTRIBUTES - Estimation of Importance of Soil and Geology Attributes

 \ast relative to the total volume of inert soil disposed of and/or recovered

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Guidelines on Procedures for Assessment and Treatment of Geology, Hydrology and Hydrogeology for National Road Schemes

Box 4.2: CRITERIA FOR RATING SITE ATTRIBUTES - Estimation of Importance of Hydrology Attributes

Importance	Criteria	Typical Examples	
Extremely High	Attribute has a high quality or value on an international scale	River, wetland or surface water body ecosystem protected by EU legislation e.g. 'European sites' designated under the Habitats Regulations or 'Salmonid waters' designated pursuant to the European Communities (Quality of Salmonid Waters) Regulations, 1988.	
		River, wetland or surface water body ecosystem protected by national legislation – NHA status	
		Regionally important potable water source supplying >2500 homes	
Very High	Attribute has a high quality or value on a regional or national scale	Quality Class A (Biotic Index Q4, Q5)	
		Flood plain protecting more than 50 residential or commercial properties from flooding	
		Nationally important amenity site for wide range of leisure activities	
		Salmon fishery	
		Locally important potable water source supplying >1000 homes	
	Attribute has a high quality or value on	Quality Class B (Biotic Index Q3-4)	
High	a local scale	Flood plain protecting between 5 and 50 residential or commercial properties from flooding	
		Locally important amenity site for wide range of leisure activities	
		Coarse fishery	
		Local potable water source supplying >50 homes	
Medium	Attribute has a medium quality or value on a local scale	Quality Class C (Biotic Index Q3, Q2- 3)	
		Flood plain protecting between 1 and 5 residential or commercial properties from flooding	
	Attribute has a low quality or value on a local scale	Locally important amenity site for small range of leisure activities	
low		Local potable water source supplying <50 homes	
LUW		Quality Class D (Biotic Index Q2, Q1)	
		Flood plain protecting 1 residential or commercial property from flooding	
		Amenity site used by small numbers of local people	

Importance	Criteria	Typical Examples		
Extremely High	Attribute has a high quality or value on an international scale	Groundwater supports river, wetland or surface water body ecosystem protected by EU legislation e.g. SAC or SPA status		
Very High	Attribute has a high quality or value on a regional or national scale	Regionally Important Aquifer with multiple wellfields Groundwater supports river, wetland or surface water body ecosystem protected by national legislation – NHA status Regionally important potable water source supplying >2500 homes Inner source protection area for regionally important water source		
High	Attribute has a high quality or value on a local scale	Regionally Important Aquifer Groundwater provides large proportion of baseflow to local rivers Locally important potable water source supplying >1000 homes Outer source protection area for regionally important water source Inner source protection area for locally important water source		
Medium	Attribute has a medium quality or value on a local scale	Locally Important Aquifer Potable water source supplying >50 homes Outer source protection area for locally important water source		
Low	Attribute has a low quality or value on a local scale	alue on Poor Bedrock Aquifer Potable water source supplying <50 homes		

Box 4.3: CRITERIA FOR RATING SITE ATTRIBUTES - Estimation of Importance of Hydrogeology Attributes



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Box 4.4: CRITERIA FOR RATING IMPACT SIGNIFICANCE AT ROUTE SELECTION STAGE -Rating of Significant Environmental Impacts at Route Selection Stage

	Attribute Importance						
Impact Level	Extremely High **	Very High	High	Medium	Low		
Profound	Any permanent impact on attribute	Permanent impact on significant proportion of attribute					
Significant	Temporary impact on significant proportion of attribute	Permanent impact on small proportion of attribute	Permanent impact on significant proportion of attribute				
Moderate	Temporary impact on small proportion of attribute	Temporary impact on significant proportion of attribute	Permanent impact on small proportion of attribute	Permanent impact on significant proportion of attribute			
Slight		Temporary impact on small proportion of attribute	Temporary impact on significant proportion of attribute	Permanent impact on small proportion of attribute	Permanent impact on significant proportion of attribute		
Imperceptible			Temporary impact on small proportion of attribute	Temporary impact on significant proportion of attribute	Permanent impact on small proportion of attribute		

** In rating impacts on an 'European site' account must be taken of Article 6(3) and 6(4) of the Habitats Directive (Council Directive 92/43/EEC). Also see guidance contained within Guidelines for Assessment of Ecological Impacts of National Road Schemes (Rev 2, National Roads Authority, 2008)