
MATERIALS ASSESSMENT

APPENDIX 10.1

10.1 MATERIAL RESOURCES ASSESSMENT CRITERIA

10.1.1 Thresholds for sensitivity and magnitude of impact from materials and waste are based on recent Highway's England guidance as presented in Table 10.1 and Table 10.2. The assessment has taken into account the nature of impacts (adverse/beneficial, permanent/temporary, direct/indirect) from materials and waste generated and disposed of, and uses professional judgement to determine the significance of effect.

TABLE 10.1 – SENSITIVITY CRITERIA		
SENSITIVITY	MATERIALS	WASTE
VERY HIGH	<ul style="list-style-type: none"> → Comprises no re-used/recycled aggregate (alternative materials) and/or → Are forecast (through trend analysis and other information) to suffer from known issues regarding supply and stock or are known to be insufficient regarding supply and stock and/or 	<ul style="list-style-type: none"> → The project will require new (permanent) waste infrastructure to be constructed to accommodate waste.
HIGH	<ul style="list-style-type: none"> → Offer little or no sustainable features and benefits compared to traditional materials 	<ul style="list-style-type: none"> → >50% of project waste requires disposal outside of the region
MEDIUM	<ul style="list-style-type: none"> → Comprises re-used/recycled aggregate (alternative materials) below the lower of the relevant regional or national percentage target (refer to Notes below) and/or → Are forecast (through trend analysis and other information) to suffer from some potential issues regarding supply and stock and/or → Offer some sustainable features and benefits compared to traditional materials 	<ul style="list-style-type: none"> → 1-50% of project waste requires disposal outside of the region
LOW	<ul style="list-style-type: none"> → Comprises re-used/recycled aggregate (alternative materials) above the higher of the relevant regional or national percentage target (refer to Notes below) and/or → Are forecast (through trend analysis and other information) to be generally free from known issues regarding supply and stock, and/or → Offer sustainable features and benefits compared to traditional materials 	<ul style="list-style-type: none"> → Waste infrastructure has sufficient capacity to accommodate waste from the Proposed Scheme, without compromising integrity of the receiving infrastructure (design life or capacity) within the region
NEGLIGIBLE	<ul style="list-style-type: none"> → No reduction or alteration in the availability of material assets at a 	<ul style="list-style-type: none"> → No reduction or alteration in the capacity of waste infrastructure at a regional scale

TABLE 14.1 – SENSITIVITY CRITERIA

	regional scale in relation to the resources the project will use		
NOTES	Recycled aggregate targets 2005 - 2020 ⁱ		
	The higher target for recycled aggregate between the national average or region shall apply. Where a project is located in more than one region, the region's target where the majority of the materials are to be sourced shall apply.		
	Region	Recycled content target (alternative materials)	Total aggregate provision (million tonnes)
	South East	26%	502
	England Average	25%	434

TABLE 10.2 – MAGNITUDE CRITERIA

MAGNITUDE	MATERIALS*	WASTE
MAJOR	→ >50% of primary materials to be sourced internationally and/or → Sterilises ≥1 mineral safeguarding site and/or peat resource	→ >1% reduction or alteration in <i>national</i> capacity of waste infrastructure, as a result of accommodating waste from a project
MODERATE		→ >1% reduction or alteration in the <i>regional</i> capacity of waste infrastructure as a result of accommodating waste from a project
MINOR	→ >50% of primary materials to be sourced nationally (with other primary materials sourced at a lower geographic scale)	→ >1% reduction or alteration in the regional capacity of waste infrastructure as a result of accommodating waste from a project
NEGLIGIBLE	→ Requires ≤50% of primary materials to be sourced nationally (with other primary materials sourced at a lower geographic scale)	→ ≤1% reduction or alteration in the regional capacity of waste infrastructure
NO CHANGE	→ No reduction or alteration in the availability of material assets at a regional scale in relation to the resources the project will use	→ No reduction or alteration in the capacity of waste infrastructure at a regional scale
NOTES	* for materials: magnitude of impact may be reduced wherever non-renewable / virgin / primary material consumption is reduced e.g. through use of recycled / secondary content, or materials with sustainable features	

ⁱ Department for Communities and Local Government. National and regional guidelines for aggregates provision in England 2005-2020(2009) [\[link\]](#)