

Assessment Criteria and Performance Measures

1. Performance measures (assessment criteria) which were adopted for use in the Initial and Hybrid Options promulgated under the Phase I Study, and used in the Phase II Stage I Study, are included for reference in Table 2.1 below. The following symbol * denotes performance measures which were adopted for use in the assessment of the Medium-Term Strategy. For the present assessment, it is not possible to use all of the performance measures given below, although the appraisal has taken account of these measures wherever possible in order to identify key issues and areas of concern associated with the three options for the medium term strategy (as indicated by the following symbols * •).

Table 2.1 Performance Measures

Performance Measure	Used in Initial Options	Used in Hybrid Option	Used in Medium-Term Strategy
<u>Water Quality:</u>			
- areas of development without connection to trunk sewers or sewage treatment facilities	*	*	*
- surplus capacity in the trunk sewers	*	*	*
- projected maximum daily flow (domestic and industrial)	*	*	*•
- projected increase in BOD from all sources	-	*	*
- flows in excess of committed disposal capacity	*	-	-
- relative increase in BOD discharge from effluent flows	-	*	*
- proximity of outfall to : SSSI/Reserve, Marine conservation Area, Mariculture Zone, Gazetted Beach	*	*	*
- proximity of outfalls to confined water body	-	*	*
- estimate of <u>E.coli</u> generated from domestic loads	-	*	*
- extent of new reclamations, significance of the location, whether any contaminated mud will require disposal.	-	*	*•
<u>Air Quality:</u>			
<u>Traffic</u>			
- kilometers of new road	-	*	*•
- interface of new road with agricultural lands, residential areas, Country Parks, SSSI's, Landscape Protection Areas	-	*	*
- interface of junctions with agricultural lands, residential areas, Country Parks, SSSI's, Landscape Protection Areas	-	*	*
- kilometres of road passing through airshed	-	*	*
- projected number of vehicles on roads	-	*	*•
- projected number of goods vehicles on roads	-	*	*•

Table 2.1 Performance Measures (Cont'd)

Performance Measure	Used in Initial Options	Used in Hybrid Option	Used in Medium-Term Strategy
- total AM peak traffic	-	*	*.
- estimated CO emission rates - peak AM	-	-	-
Industry			
- total emissions for industrial developments for NOx, SOx,	-	*	*.
- proximity to residential areas	-	*	*
- proximity to pollution blackspots	-	*	*
- proximity to areas of ecological significance	-	*	*
- impact on existing air quality (cumulative effects)	-	*	*
- population within a confined airshed or with existing poor/bad air quality	-	*	*
- length of interface between industry and residential area	-	*	*
- industry within confined airsheds	-	*	*
- from mathematical modelling studies determine whether industrial developments and/or vehicular traffic will cause AQO's to be exceeded	-	*	*.
Noise:			
Rail Traffic			
- direct interface with residential areas	-	*	*
- estimated volume of rolling stock	-	*	*
- "peak flows"	-	*	*
Major Road Links			
- direct interface with residential areas	*	*	*
- interface with other noise sensitive receptors	-	*	*
- estimated noise levels	-	*	*.
- length of interface of industrial and residential uses	*	*	*
- population within the Noise Exposure Forecast 25 contour	*	-	-
- estimate the relative noise levels compared to the existing situation	-	*	*
Waste:			
- projected domestic waste production	*	*	*.
- industrial waste production	*	*	*
- employee generated waste from industrial sectors	*	*	*
- total industrial waste generated	-	-	-
- proximity to appropriate disposal facilities	-	*	*.
Potentially Hazardous Installations			
- kilometers of new road passing through PHI consultation zones	*	*	*.
- population within the PHI consultation zone	*	*	*

Table 2.1 Performance Measures (Cont'd)

Performance Measure	Used in Initial Options	Used in Hybrid Option	Used in Medium-Term Strategy
<u>Ecology:</u>			
- length of interface with ecologically significant sites	-	*	*
- minimization of the extent of wetland depletion (ha.)	*	*	*
- extent of coastal modification	*	-	*.
- volume of dredged contaminated spoil requiring off-site disposal	-	*	*
<u>Planning Guideline Compliance</u>			
- air quality	*	*	*
- noise	*	*	*
- water quality	*	*	*
- waste	*	*	*
- ecology	*	*	*
<u>Sustainability of Development Proposals</u>	-	*	*