Checklist for rural and urban water supply and sanitation projects

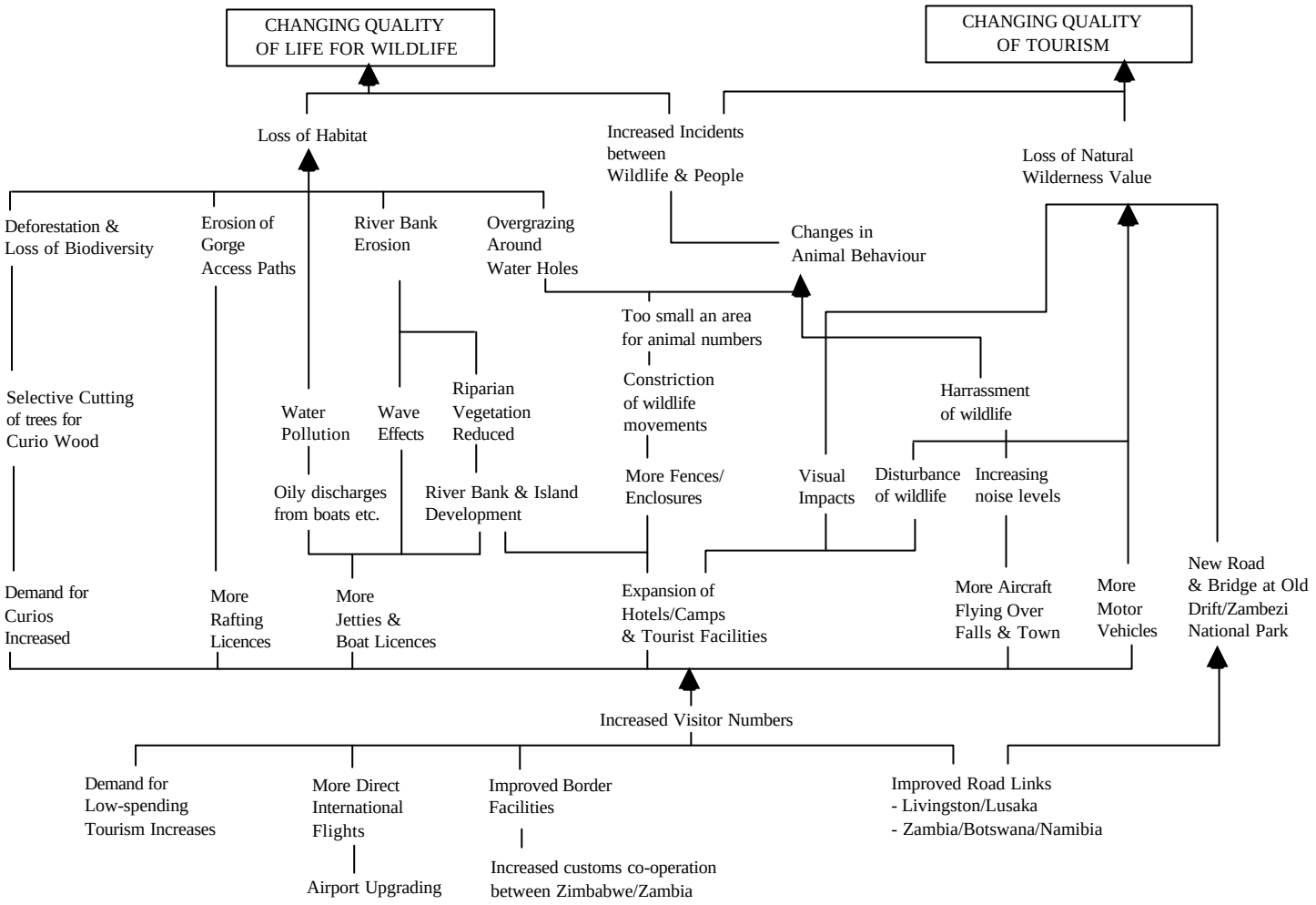
Aspects of EIA	Checklist Questions Will the project:	Yes	No	Additional Data needs
Sources of Impacts	1. Require the acquisition or conversion of significant areas of land for reservoir/treatment works etc. (e.g. > 50 ha rural, > 5 ha urban)?	☐	☐	☐
	2. Result in significant quantities of eroded material, effluent or solid wastes?	☐	☐	☐
	3. Require significant accommodation or service amenities to support the workforce during construction (eg > 100 manual workers)?	☐	☐	☐
Receptors of Impacts	4. Flood or otherwise affect areas which support conservation worthy terrestrial or aquatic ecosystems, flora or fauna (eg protected areas, wilderness areas, forest reserves, critical habitats, endangered species); or that contain sites of historical or cultural importance?	☐	☐	☐
	5. Flood or otherwise affect areas which will affect the livelihoods of local people (eg require population resettlement; affect local industry, agriculture, livestock or fish stocks; reduce the availability of natural resource goods and services)?	☐	☐	☐
	6. Involve siting sanitation treatment facilities close to human settlements (particularly where locations are susceptible to flooding)?	☐	☐	☐
	7. Affect sources of water extraction?	☐	☐	☐
Environmental Impacts	8. Cause a noticeable permanent or seasonal reduction in the volume of ground or surface water supply?	☐	☐	☐
	9. Present a significant pollution risk through liquid or solid wastes to humans, sources of water extraction, conservation worthy aquatic ecosystems and species, or commercial fish stocks?	☐	☐	☐
	10. Change the local hydrology of surface water-bodies (eg streams, rivers, lakes) such that conservation-worthy or commercially significant fish stocks are affected?	☐	☐	☐
	11. Increase the risk of diseases in areas of high population density (eg onchocerciasis, filariasis, malaria, hepatitis, gastrointestinal diseases)?	☐	☐	☐
	12. Induce secondary development, eg along access roads, or in the form of entrepreneurial services for construction and operational activities?	☐	☐	☐
Mitigation Measures	13. Be likely to require mitigation measures that may result in the project being financially or socially unacceptable?	☐	☐	☐
Comments				
	I recommend that the programme be assigned to Category	☐		
	Signature: Delegation.....Desk.....			

Source: Directorate-General for Development Commission of the European Communities, 1993

Example of an assessment matrix

		Treatment - Comminution - Sedimentation - Millscreening - Oxidation ponds - Activated sludge - Trickling filter - Nutrient removal - Chlorination - Further treatment offsite	Disposal - Land - Rapid infiltration - Surface flooding - Spray irrigation Disposal - Inland Water - River - Lake Disposal - Marine Water - Estuary - Inshore marine - Offshore marine Deep well injection
BIOLOGICAL ENVIRONMENT	Forest Shrubland Grassland Herbfield (alpine) Sand/shingle/rock Cropland Urban land Lakes Rivers Estuaries Inter-tidal Marine Wetlands		
PHYSICAL ENVIRONMENT	River regime Erosion/land stability Sedimentation Surface water Ground water Agricultural soil Foundation materials Climate/atmosphere Nuisance (noise, dust, smell) Landform		
SOCIAL ENVIRONMENT	Public participation Employment Settlement Land value Existing land uses Risks and anxieties Personal and social values Historical/cultural Landscape/visual Recreation		
Environmental Effects / Development			

Network showing impact linkages leading to changes in quality of life, wildlife and tourism (arising from increased visitor numbers)



(Source: Bisset personal communication)

Impact characteristic summary table

IMPACT CHARACTERISTIC	IMPACT TYPE		
	air quality	health	etc
nature			
magnitude			
extent/location			
timing			
duration			
reversibility			
likelihood (risk)			
significance			