

JMCT Construction – Individual contribution

Connor Gilbert 1705190

EIA – Environmental Impact Assessment

- ▶ The overall purpose and the specific aims of the development.
- ▶ Physical characteristics of the development.
- ▶ Production process that will be involved.
- ▶ Levels of waste and emissions likely to arise from the development.
- ▶ Clearly document all efforts which were taken to reduce or stop the environmental effects.

Environmental Factors

- ▶ Water
- ▶ Land
- ▶ Air
- ▶ Aquatic Wildlife

Land			
Landscape	<u>Excavations and earthworks</u> • Creation of a new landform.	<u>Physical presence of bridge</u> • Change of surrounding landscape	<u>Decommissioning</u> • Temporary visual impacts due to work being carried out on site
Soils	<u>Use of vehicles and machinery on site</u> • Compaction. • Erosion. <u>Earthworks</u> • Further erosion of the exposed soil. • Removal of the soils on site for the bridge.	<u>Use of vehicles and machinery for on-site maintenance</u> • Soil erosion • Soil compaction	<u>Use of vehicles and machinery on site</u> • Compaction • Erosion <u>Decommissioning earthworks</u> • Further erosion of the exposed soil • Removal of the soils on site for the bridge
Geology	Excavations		

Energy

Three main aspects:

- ▶ Economic
- ▶ Environmental
- ▶ Social

Green Design

Sustainable Design



Aesthetics

- ▶ Good lighting
- ▶ Space above bridge
- ▶ Clear structural design system
- ▶ Environmental integration
- ▶ Suitable materials
- ▶ Colour
- ▶ Simplicity