8.5.6 Conclusion of the representation, process and evaluation models:

Valley with abundance of springs and water courses

Availability of flat land by filing of marshy areas

Alluvial deposits from the flooding processes.

Swamps and lowland areas, karst topography

Fertile soil owing to alluvial deposits

Initial development of Roanoke City with farming and allied businesses

Development of Railroads

Industrial development and urbanization

Contamination of land from the industrial development

Transportation hub of southwest of Virginia

Building of bridges across the river

Clearing of riparian and forested areas

Filling of lowland areas and sink holes in karst topography

Increased impervious surface area

Dissociation of people from river because of railroad & industrial development occupying the river front

Contamination of river water due to flooding

Fragmentation of natural resources by transportation corridors

Disruption of fluvial processes

Increased flooding frequency

Reduced water quality

People's perception of river as cause for flooding, unhealthy river system, than a place to enjoy and play

Poor habitat diversity

Increased flooding frequency

Reduced water quality