

Geologic Resources

East Lynn Lake Coal Lease LUA/EIS

Wayne County, West Virginia

Potential impacts to geologic resources include:

- Utilization of the coal
- Surface subsidence as a result of mining

Sensitivity of Various Surface Structures and Surface land to Various Types of Ground Deformations (modified from Krath, 1983)

Structure	Subsidence	Slope	Curvature	Displacement	Tension	Compression
House		x	x		x	x
Commercial building		(x)	x		x	x
Row of houses		x	x		x	xx
Machine shop			(x)		(x)	(x)
Blast furnace		xx				
Machinery		xx				
Conveyor belt				x	x	x
Chimney		xx				
Pipeline crossing				x		
Reservoirs, water tank		x	xx		x	
Water treatment plant		xx			x	x
Railway	x				x	x
Railway station	x	(x)			x	x
Road	(x)				x	x
Canal	xx					
Lock	xx	x	x		x	(x)
Bridge	x	(x)		x		
Pipeline					x	x
Water mains				(x)	x	x
Sewer	xx			(x)	x	x
Gas mains	(x)			branch off	x	x
Underground cable					(x)	x
Field meadows	x					
Woods	x					
Drainage trench	x	xx				
Natural water flow	xx	xx				

Note: Sensitivity level, xx high, x medium, (x) slight.

