



**Alternative 1:  
Present**

**Stage 1**  
Same as No  
Project.

**Interlude A**  
Same as No  
Project until  
construction  
is completed.

**Alternative 1:  
2012**

**Stage 2**  
Bluff stabilized.  
No further  
erosion of bluff  
face.

Soil Nail  
Structure

**Alternative 1:  
2027**

**Stage 3**  
No change.  
Maintenance  
performed as  
needed.

**Alternative 1:  
2052**

**Stage 4**  
No change.  
Bluff armoring is  
monitored and  
repaired as  
needed.

Source: Griggs 2001

## **Alternative 1 Erosion Estimate Full Bluff Protection**