

Green Island Headwall (Modification Project)

Rock Island District

AUTHORITY: Section 1135 of the Water Resources Development Act, as amended (Modifications for Improvement of Environment).

CONGRESSIONAL DISTRICT: IA-01

BACKGROUND: The previous water control structure for the lower impoundment (Blakes Lake) consisted of three gated 36-inch diameter Corrugated Metal Pipe (CMP) tubes which ran through the Green Island Levee. The slide gates for the CMP tubes are attached to a concrete headwall on the interior side of the levee. High Mississippi River water levels exerted pressure on these slide gate assemblies causing them to tear loose from the inside headwall. The 3,722 acre refuge within the impoundment occasionally flooded during the growing season due to high water conditions. This type of structural failure damaged the wildlife habitat and food resources within the Green Island Wildlife Area. The Green Island Wildlife Area is a backwater complex of marsh, forested floodplain, and cropland lying within the 6-mile, U-shaped levee. The selected alternative included the construction of new riverside gatewells and the reuse of the existing corrugated metal pipes.

LOCATION: The Green Island Headwall Modification Project is located within the Rock Island District on the Green Island Levee and Drainage District in Jackson County, Iowa. The project site is immediately downstream of the confluence of the Maquoketa and Mississippi Rivers. The water control structure's headwall and slide gate assembly is located at river mile 546.5. Bellevue, Iowa, is approximately 9.6 miles to the north.

CURRENT STATUS: The project was completed in July 1995, is being operated by the sponsor, at a total project cost of \$255,000.