

Southwestern Illinois Flood Prevention District

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District Engineer



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Public Safety is the Top Priority

Agenda

- USACE Restoration Projects in the Metro East
- 408 Permissions
- Levee Certification for FEMA Accreditation
- Work-In-Kind Credit



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USACE Projects

- USACE has the legislative authority and necessary approvals to restore MESD and the majority of the Wood River Drainage and Levee District and improve the Chain of Rocks Levee.
- The St. Louis District is preparing Limited Re-Evaluation Reports (LLR) to obtain approval for restoring the Prairie Du Pont/Fish Lake Drainage and Levee Districts and the Wood River/Mel Price levee segment.
- USACE has consistently supported the Metro East by constructing and improving levees since 1936.



USACE Projects

- Original Legislative Authorization for Levee Construction
 - ▶ Prairie Du Pont Levee – 1936
 - ▶ Fish Lake Levee – 1954
 - ▶ Metro East – 1936, Additional constr approved 2010
 - ▶ Chain of Rocks – 1945, Additional constr approved 1999
 - ▶ Wood River– 1938, Additional constr approved 2005 & 2011

- Legislative Authorization for Reconstruction
 - ▶ Metro East Sanitary – 1988
 - ▶ Wood River - 2007



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408 Permission

- United States Code
 - ▶ Title 33: Navigation and Navigable Waters
 - ▶ Chapter 9, Subchapter 1, Section 408
- *(Condensed)* It shall not be lawful for any person or person to build upon, alter, deface, destroy, move, injure, obstruct or in any manner whatever impair the usefulness of any levee or other work built by the United States
- ... That the Secretary may, on the recommendation of the Chief of Engineers, grant permission for the alteration or permanent occupation or use of any of the aforementioned public works when in the judgment of the Secretary **such occupation or use will not be injurious to the public interest and will not impair the usefulness of such work**



408 Permission

- Currently expecting 8 applications for 408 permissions from the Southwestern Illinois Flood Prevention District (FPD).
- The first application was received on 6 Feb 2012. USACE expects to provide approval within the FPDs required timeline.
- USACE expects to provide approval for the majority of the applications within the FPDs required timeline.
- Areas of Concern for approval and to meet the FPDs timeline.
 - ▶ Cutoff Walls
 - ▶ Graded Filters
 - ▶ Alterations for additional interior water (H&H)
 - ▶ 404 Permit – Public Review Period



Levee Certification

- USACE owns and/or operates levee segments within MESD and the Wood River Drainage & Levee District.
- USACE policy only allows certification of levee systems.
- The St. Louis District will provide the FPD with a levee performance evaluation, which essentially meets FEMA requirements for certification.
- The St. Louis District intends to operate these two segments until they are completely restored and can be operated by the local levee district.



Funding for USACE Metro East Projects

- USACE has the authority and approval to restore MESD and the majority of the Wood River and improve the Chain of Rocks. The current total cost estimate is \$336.4 Million.
- The total cost estimate will grow with the addition of Prairie Du Pont/Fish Lake and the Wood River/Mel Price segment.
- The St. Louis District has already restored a significant portion of the Metro East Levees. USACE and the Metro East Levee districts have already expended \$146.9 Million.
- Currently, \$189.5 Million is needed to complete the authorized reconstruction.



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Funding for USACE Metro East Projects

Project	Authorized (Millions)	Expended To Date (Millions)	Remaining (Millions)
Prairie Du Pont/Fish Lake (Cost Shared)	\$ 3.4	\$ 2.7	\$ 0.7
Metro East Sanitary District (Cost Shared)	\$ 201.4	\$ 54.8	\$146.6
Chain of Rocks (100% Federal)	\$ 59.3	\$ 53.7	\$ 5.6
Wood River (Cost Shared)	\$ 72.3	\$ 35.7	\$ 36.6
Wood River/Mel Price (100% Federal)	TBD	TBD	TBD
Total	\$ 336.4	\$ 146.9	\$ 189.5

Funding for USACE Metro East Projects

Work-in-Kind Credit

- Current administration policy requires a 35% cost share from the local sponsor for a USACE project.
- Work-in-kind credits rather than cash contributions can be allowed for USACE projects, however, the Metro East Levees do not currently qualify.



Flooded St. Louis Riverfront 1993



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Typical Levee Stratigraphy with Gravel Filter in Bottom of Drainage Trench.

