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St. Louis District EMP Overview





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ENVIRONMENTAL MANAGEMENT PROGRAM (EMP)

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Current EMP Projects

- Batchtown, Mississippi River – Pool 25
- Calhoun Point, Miss. River – Pool 26
- Pools 25 & 26, Miss. River –Pools 25/26
- Swan Lake, Illinois River
- Schenimann Chute, Miss. - Open River
- Wilkerson Island, Open River
- Ted Shanks, Pool 24
- Multiple Open River Projects pending NESP coordination.



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Batchtown

- Emphasis on sediment reduction, waterfowl & aquatic habitat.
- Local Sponsor – FWS & IDNR.
- **Status:** PED & Construction phase ongoing.
- Phase I - Dredging & Lowland Sediment Traps complete.
- Phase II – Levee & Structures complete.
- Phase III – P&S 99% complete; construction on hold due to funding constraints.
- Phase IV - Hillside Sediment Control Measures (HSCM), 500k Cost Share (NRCS), will complete in FY02.



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Batchtown

Upland Sediment Control –
reduction of sediment into
complex.



Dredging in FWS Refuge
– increase water depth.





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Calhoun Point

- Emphasis on reduced sedimentation, waterfowl management & hardwood bottomland forest.
- Local Sponsor – IDNR.
- Phase I & II Plans & Specifications are completed. Awaiting funding for construction.
- Phase III – Forest Management has been initiated.



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Pools 25 & 26

- Emphasis on reduced sedimentation, waterfowl management & aquatic spawning & nurseries.
- Local Sponsor – MDOC.
- **Status:** Currently in Plan Formulation phase of project. Four islands – 2 in Pool 25 & 2 in Pool 26.



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Schenimann Chute

- Emphasis on aquatic habitat and connectivity to main river. Main features include dredging, notches in dikes, and hard points.
- Local Sponsor – MDOC.
- **Status:** Completing Planning phase.



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Schenimann Chute



Lower end of
Schenimann Chute - sand
bar habitat ←

Middle portion of Schenimann
Chute – connectivity and
sinuosity of channel bed →





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Swan Lake

- Emphasis on reduced sedimentation, aquatics & waterfowl management.
- Project functioning as designed, however, construction sequence generated dredging and levee construction deficiencies.
- FWS and IDNR – O&M Sponsor.



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Wilkerson Island

- Emphasis on reconnecting side channel and reforestation.
- Local Sponsor – FWS
- **Status:** Fact Sheet Approval
- Location: Open River (MRM 167) Illinois side.



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Completed EMP Projects

- Stump Lake, Illinois River.
- Stag Island, Pool 25 - Mississippi River.
- Dresser Island, Pool 26 – Miss. River.
- Pharrs Island, Pool 24 – Miss. River.
- Clarksville Refuge, Pool 24 – Miss. River.
- Cuivre Island, Pool 26 – Miss. River.



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Stump Lake

- Emphasis on reduced sedimentation & waterfowl management.
- Project 100% Complete (2000), finalizing O&M Manuals.
- IDNR – O&M Sponsor.



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Stag Island

- Emphasis on backwater overwintering aquatic habitat.
- 100% Complete (1998).
- MDOC - O&M Sponsor.
- Utilized existing Regulating Works contract through modification to complete during high water event in FY98.
- Project completed early & under budget.



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Dresser Island

- Emphasis on waterfowl management and backwater aquatic spawning habitat.
- MDOC - O&M sponsor.
- 100% Complete (1992).



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Pharrs Island

- Emphasis on aquatic backwater/wetland habitat and reduced sedimentation.
- 100% Complete (1992).
- MDOC - O&M Sponsor.



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Clarksville Refuge

- Emphasis on sediment reduction and waterfowl management.
- 100% Complete (1991).
- MDOC - O&M Sponsor.



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Cuivre Island

- Emphasis on Green Tree Reservoir ecosystem, waterfowl & aquatic habitat.
- Local Sponsor – Missouri Department of Conservation (MDOC).
- **Status:** Project 99% Complete – Monitoring project for design & construction deficiencies.
- Cost-Shared project with MDOC.



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Future EMP Projects

- Reds Landing, Pool 25 - Mississippi River.
- Establishment Chute, Open River.
- Ft. Chartres/Salt Lake, Open River.
- Kaskaskia River Oxbows, Kaskaskia River.
- Stone Dike Alterations – Open River.



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Open River (mrm 0-200)

- MVS currently working in plan formulation phase on Open River projects (side channels).
- Side Channel projects will focus on utilization of Natural River Processes. Micro-models being used for plan formulation.
- Huge potential for new EMP projects.
- Smaller scale projects, working through a streamlined process for projects under \$2 million.



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Stone Dike Alterations

- Emphasis on aquatic habitat through diverse depositional patterns.
- Local Sponsor – MDOC, IDNR, & FWS.
- **Status:** Beginning of plan formulation phases; first reach Herculaneum.
- Open River dike fields will be broken down by Reaches.
- Main features include notches, modified dimensions, & removal of dikes.
- Micro-models being utilized in plan formulation.