CEMVR-ED-DM 24 March 2003

MEMORANDUM FOR RECORD:

SUBJECT: Bay Island HREP, 2002 Performance Evaluation Report.

1. On October 29th, 2002 a joint inspection was made at the Bay Island Habitat Rehabilitation and Environmental Project (HREP). The inspection included representatives from the Corps of Engineers, Missouri Department of Conservation and the U.S. Fish and Wildlife. The following personnel were present at the site visit:

Corps of Engineers - Charlene Carmack, Biologist in PM-A
Kirk Sunderman – Project Engineer in ED-DM
Gary Swenson – Forester in OD-MN

Missouri Department of Conservation – Keith Jackson – Site Manager

U.S. Fish & Wildlife Service – Karen Westphall, EMP Coordinator

2. Both the north and south wetland management units (WMUs) were filled with impounded water. The North WMU was at elevation 464.7 feet and the south WMU was at elevation 465.5 feet during the inspection. The WMUs were filled about two weeks prior to the inspection. The north WMU had held its water level consistently over those two weeks but the south WMU had lost a half-foot of pool over the same period. The Missouri Department of Conservation (MDOC) continues to monitor the seepage that is occurring in the south WMU by periodically taking gage readings and recording hours of pump operation. It was noted that the pump station had no problems starting up and pumping after sitting through another season.

3. The MDOC was having the original acorn/seedlings area disked in preparation for planting 5 to 6 foot tall root-pruned-method (RPM) trees. Only about a dozen trees are still growing from the original plantings that included around 7,500 acorns and seedlings in this 10-acre area. The new mast trees will include pecan, pin oak, swamp white oak, and persimmon planted about 30 feet apart. Pumping water into the north WMU was delayed to facilitate planting and growth of existing trees. The planting location in the south WMU are at elevations above normal pool, and thus not appreciably impacted by flooding operations.

4. Locations that had been seeded with Virginia Wild Rye and redtop were found to be doing real well at the site. Reseeding of the exterior levee is once again planned for spring 2003.

5. Cover management within the WMUs was being addressed by selective mowing and brush cutting to clear areas overgrown by undesirable vegetation.

6. Overall the project looked to be in great shape.

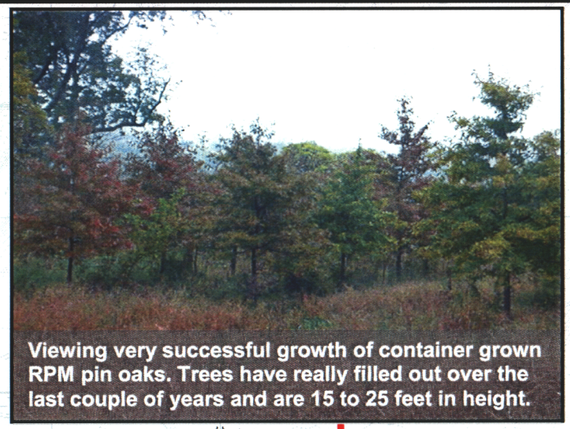
Kirk Sunderman

Kirk Sunderman, P.E.
Project Engineering Section

CF by e-mail:

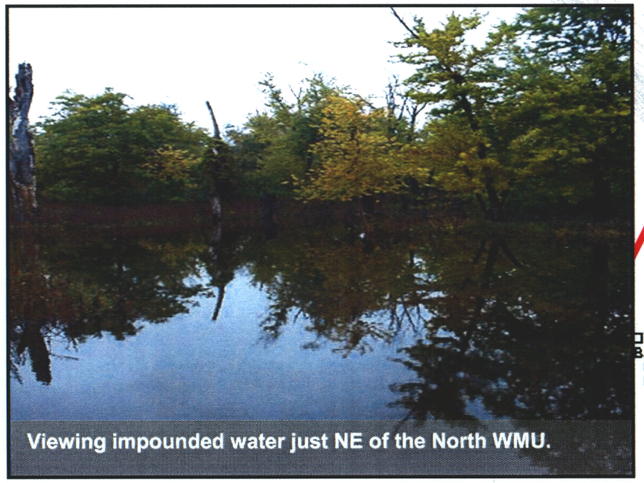
CD-C (Lester)
ED-DN (Ensey)
ED-DN (Johnson)
ED-DM (Sunderman)
OD-MN (Swenson)
PM-A (Carmack)
PM-M (Perk)
PM-M (Niles)

MDOC (Keith Jackson)
USFWS (Karen Westphall)



Viewing very successful growth of container grown RPM pin oaks. Trees have really filled out over the last couple of years and are 15 to 25 feet in height.

Brush cutter that was being used to manage unwanted growth at the site.



Viewing impounded water just NE of the North WMU.

Original site of acorn plantings where only about a dozen trees have developed. Field was recently disked in preparation for root-pruned-method (RPM) tree planting by the Missouri Department of Conservation.

SOUTH RIVER DRAINAGE DISTRICT PUMP STATION

NORTH WETLAND MANAGEMENT UNIT

SOUTH WETLAND MANAGEMENT UNIT

CLEAR CREEK

ZEGLER CHUTE

MISSISSIPPI RIVER

MISSOURI HWY. 68

" ON TOP LT. BACK WALL OF OVER CLEAR EL. 466.35)

EXISTING SITE ACCESS ROAD

EXISTING PUMP STATION

R-310.9 FND. CONC. MONO. W/BRASS CAP 16" DEEP 22.77' FROM ℄ RR.

LEGEND:

- EXISTING LEVEE
- EXISTING WATER CONTROL STRUCTURE
- EXISTING WATER SUPPLY BERM
- BENCH MARK

SITE PLAN

0 500 1000

SCALE IN FEET

US Army Corps of Engineers Rock Island District

Revisions

Designed By: MLW/KJS | Date: 24 FEB 00
Drawn By: PLC | Scale: AS SHOWN
Checked By: KJS | Project Code: @pAS
Reviewed By: BLK | Solicitation Number: DACW25-00-B-0007

U.S. ARMY ENGINEER DISTRICT ROCK ISLAND, ILLINOIS

UPPER MISSISSIPPI RIVER SYSTEM ENVIRONMENTAL MANAGEMENT PROGRAM POOL 22, RIVER MILE 311 BAY ISLAND, MISSOURI

SITE PLAN

Sheet Reference Number: a

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25-JAN-2002 08:19