ENVIRONMENTAL MANAGEMENT PROGRAM
COORDINATING COMMITTEE

Winter Quarterly Meeting

February 11-12, 1997

AGENDA

BACKGROUND
AND
SUPPORTING MATERIALS

Ramada Plaza Hotel O'Hare

Rosemont, Illinois

Environmental Management Program
Coordinating Committee
Winter Quarterly Meeting

Ramada Plaza Hotel O'Hare
Rosemont, Illinois

February 11-12, 1997

AGENDA

Tuesday, February 11

Partner Pre-Meetings

9:00 - 11:30 a.m.	Corps of Engineers In-Progress Review	*(Room D-10)*
9:00 - 11:30 a.m.	U.S. Fish and Wildlife Service	*(Conf. Rm. 2620)*
10:00 - 11:30 a.m.	State EMP-CC Members	*(Room D-21)*

EMP-CC Business Meeting *(Ballroom Section A)*

	12:30 p.m.	Call to Order (Co-Chair J. Blankenship) Introductions
(A)	12:35	Approval of Minutes of November 21, 1996 Meeting
(B)	12:40	Program Management • FY 98 Budget (L. Hiipakka) • FY 98 Program (T. Hempfling) • FY 97 Execution (T. Hempfling) • District Habitat Project Updates
	1:40	Chautauqua River Project Repair
(C)	2:00	Long Term Resource Monitoring • FY 97 Abbreviated Annual Work Plan (B. Delaney) • Science Review Committee Results (B. Delaney) • Management Review Committee Results
	2:45	Break

(Continued)

Tuesday, February 11 (Continued)

Report to Congress Special Session

(D)	3:00 p.m.	Overview of Meeting Format and Objectives (Co-Chair L. Hiipakka)
	3:15	Presentations on Status and Preliminary Drafts of Report Chapters (20 minutes each) • Health of the River (C. Theiling) • Habitat Projects (J. Barko) • Long Term Resource Monitoring (B. Delaney) • Alternatives and Conclusions (J. Skalak)
	4:45	Discussion
	5:30 p.m.	Adjourn

Wednesday, February 12

Report to Congress Special Session (Continued)

8:30 a.m.	Summarize Prior Discussions (Co-Chair L. Hiipakka) Day 2 Objectives
8:40	Discussion of Report Contents and Options for Recommendations
11:30	Lunch
1:00 p.m.	Public Involvement Plan (J. Skalak)
1:30	Next Steps
2:30 p.m.	Adjourn

ATTACHMENT A

Minutes of the EMP-CC Quarterly Meeting

November 21, 1996

DRAFT

Minutes of the
Upper Mississippi River System
Environmental Management Program
Coordinating Committee

November 21, 1996
Fall Quarterly Meeting

Holiday Inn City Centre
Peoria, Illinois

The meeting was called to order at 8:34 a.m. by Larry Hiipakka of the U.S Army Corps of Engineers. Other EMP-CC members present were Matt Kerschbaum (USFWS), George Garklavs (USGS), Al Ames (MARAD), Marvin Hubbell (IL DNR), Kevin Szcodronski (IA DNR), Steve Johnson (MN DNR), Gordon Farabee (MO DOC), and Terry Moe (WI DNR). A complete list of attendees is attached.

Minutes of the August Meeting

The minutes of the August 15, 1996 meeting were approved as written.

Program Management

Tom Hempfling reported that the Saint Paul and St. Louis Districts achieved 97 percent expenditure rates for FY 96. He attributed the Rock Island District's 76 percent rate for FY 96 in part to the flood damage and subsequent delays at the Lake Chautauqua project. The district was permitted to carry forward the unexpended Lake Chautauqua funds to FY 97.

Hempfling also reported that Congress appropriated $16.694 million in FY 98 funds for the EMP, an increase of $1.0 million over the Administration's budget request. In September, Corps headquarters directed NCD to allocate the additional $1 million among the program components. The additional funds were allocated as follows:

$555,000 to LTRMP
$126,000 to NCR
$116,000 to NCS
$84,000 to NCS
$119,000 to savings and slippage

Hempfling said NCD would have preferred to consult with the program partners prior to deciding how to allocate the additional funds, but the division only had a few days to make its allocation decisions. He explained that the division restored the LTRMP to full funding in part because there is a good chance of obtaining additional money for habitat projects if the districts can demonstrate additional capabilities later in the fiscal year.

Terry Moe said the states assume that the EMTC will allocate its additional $555,000 to those components of the LTRMP from which the reductions were originally made. Moe asked the Corps and EMTC to inform the states if this assumption is incorrect and to explain the rationale for any reallocation.

Hempfling distributed a revised spreadsheet summary page and reported that NCD will be working with the districts to make the spreadsheets more informative. Future summary

pages will more closely resemble the old format, but the Corps will not be going back and filling in information for prior years.

Larry Hiipakka noted that the Corps has identified additional FY 97 capabilities and intends to seek additional funds later in the fiscal year. The districts will focus on awarding contracts early in the year in case a moratorium on contract awards is imposed later. If the Corps executes all of its currently identified additional capabilities, FY 97 EMP expenditures would be slightly over $19 million.

Report to Congress

Jerry Skalak reported that the HREP database is nearing completion and will be available via the internet. Approximately 20 people attended a November 6-7 HREP evaluation team meeting. Lead authors for the HREP chapter are Chuck Theiling, Dave Soballe, and Bob Gaugush; John Barko is responsible for coordinating the overall chapter. Projects will be grouped into three broad categories (i.e., islands, water control/sediment deflection, and hydrologic exchange), and specific projects will be highlighted as examples. Skalak reported that the Corps is still awaiting written HREP summaries from some program partners. These qualitative judgments will be combined with the more quantitative analysis being done by the HREP evaluation team.

Skalak noted that Chapters 1 and 2 of the report are essentially complete and have been posted on the Corps' web site. The health of the river chapter will be based largely on the LTRMP's status and trends report, which is expected by the end of December. Chuck Theiling will be drafting the health of the river chapter in conjunction with others. The Corps has drafted the "other program components" chapter and has asked UMRBA staff to assist in revising that draft.

Skalak reported that the Corps held an HREP engineering and design workshop in late October. He noted that the workshop helped highlight strengths and weaknesses with current HREP implementation and will provide useful input to the Report to Congress.

Skalak identified several ways in which the EMTC/LTRMP will be contributing to the report, including:

- GIS/HREP database support
- HREP evaluation support
- Science Review Committee report
- Management Review Committee report
- 5 year trend reports
- status and trends report
- public expectations survey
- report editing, layout, illustration, and printing support

As a result of the October 30-31, 1996 alternatives workshop, a subcommittee was assigned to review and synthesize input from the report scoping effort. The subcommittee's synthesis will be distributed to EMP-CC members and other workshop participants in mid-December.

Another alternatives meeting is scheduled for January 22 and 23, 1997 in the Quad Cities. Skalak also noted that the Corps plans to hold an internal meeting in February at which alternatives will be considered. Larry Hiipakka urged the states and other program partners to begin to assess their positions on the various alternatives. Matt Kerschbaum asked about the Corps' plans for public involvement. Skalak said the recent LTRMP public

survey provides some insights, but emphasized that the Corps will actively solicit public input directly on the Report to Congress.

Hiipakka indicated that the Corps will be seeking headquarters guidance on how to screen alternatives. The Corps' principles and guidelines (P&G) will provide a starting point for determining the evaluation criteria. However, Hiipakka acknowledged that additional criteria beyond those embodied in P&G may be needed to adequately evaluate alternatives for a future EMP.

Hiipakka proposed a revised schedule for the report review in response to concerns expressed by Ron Nargang at the November 20, 1996 UMRBA meeting. Under the new schedule, the Issues Resolution Conference (IRC) will be moved up from May to mid-April 1997. The various draft chapters will be available prior to the IRC. The target distribution date for the draft alternatives and conclusions chapters (i.e., Chapters 8 and 9) has been advanced from March 31 to February 28 to allow program partners to review those draft chapters before the IRC. After the IRC, a revised, consolidated draft report will be distributed for public and agency review by the end of April. Hiipakka noted that these schedule adjustments will add approximately two and one-half months to the public review period, previously scheduled to begin on July 15. Hiipakka and Skalak emphasized that the accelerated deadlines will put additional pressure on the Corps and other program partners who are drafting various portions of the report. Hiipakka also stressed the importance of the February EMP-CC meeting and urged the state EMP-CC members to communicate with their UMRBA representative prior to the February Association meeting.

Steve Johnson observed that the revised schedule allows only about two weeks between the IRC and the distribution of the revised draft for public and agency review. Hiipakka said that, if major changes to the report are required after the IRC, the end of April target for initiating public and agency review will not be met. Hiipakka emphasized his hope to coordinate fully with Corps headquarters and the program partners so that the IRC does not result in major changes. Kevin Szcodronski thanked the Corps for adjusting the schedule in response to the concerns the states had raised.

Tom Hempfling said the Corps will be seeking opportunities to inform various groups about the EMP and let them know that a Report to Congress is under development. He noted that the Corps will be making EMP presentations at the MARC 2000 annual meeting and the upcoming UMR economic conference. EMP-CC members encouraged such outreach efforts and suggested that other communication methods also be pursued. Joan Albert said the Corps will be developing information materials such as a brochure and slide show. Skalak asked EMP-CC members to notify him by December 13 of other scheduled meetings that might present outreach opportunities.

The Corps will be making informational presentations through the end of June. Meetings to solicit public comment will be held in July and August. Hempfling noted that such public meetings will increase the cost of the Report to Congress. Hiipakka said the Corps will develop a proposal regarding the number and location of public meetings. This proposal will be distributed for partner comment along with a revised schedule reflecting the changes discussed today. Matt Kerschbaum and Gordon Farabee suggested selecting locations near habitat projects rather than large population centers. Kerschbaum noted that project site visits could be held in conjunction with the public meetings.

Holly Stoerker reported that the states would like some caucus time at the February meeting to help develop consensus views. The states are assuming that a large portion of the two-day meeting will be devoted to consideration of alternatives, but would also like presentations on some of the major products, including the health of the river, LTRMP, and HREP chapters, as well as the science and management review results. Skalak said he

would arrange to have the right people at the February meeting to make the desired presentations.

Farabee asked that any future HREP evaluation team meetings be held in the Quad Cities or other relatively central location.

Long Term Resource Monitoring

Management Review Committee Report

Brad Thompson reported that Larry Ludke resigned from the LTRMP Management Review Committee (MRC) due to other commitments. The MRC is compiling responses to its survey of LTRMP customers. According to Thompson, respondents expressed concerns related to the LTRMP's contribution to ecological understanding of the system, availability of LTRMP data, and the allocation of resources among program components. The MRC is also soliciting input from current and former LTRMP employees. In addition, the MRC submitted a list of questions to the Science Review Committee (SRC), which is meeting this week. John Kelmelis of USGS will be serving as a link between the MRC and SRC. USGS will also be conducting a routine fiscal audit of the EMTC now that NBS has been merged into USGS. Results of the USGS audit may be available in time for the MRC's consideration. Tom Hempfling suggested that the Corps' two previous LTRMP audits may be useful to the MRC and USGS.

Thompson said the MRC is seeking to complete its review by the end of January. He distributed copies of the committee's report outline and provided a brief overview of its components. Steve Johnson said the accelerated Report to Congress schedule that Larry Hiipakka detailed earlier in the meeting makes the January 31 deadline for the MRC's report critical. Jerry Skalak said he was very pleased with the MRC's efforts in terms of their contribution to the Report to Congress. Terry Moe thanked the Rock Island District for making Brad Thompson available to support the MRC's work.

Larry Hiipakka asked whether the MRC would likely recommend refocusing the LTRMP. Marv Hubbell emphasized that nothing has been decided and a full range of issues and alternatives is still under consideration. Hiipakka suggested that a stronger role for the LTRMP in monitoring HREPs would be appropriate in an extended EMP.

Overhead Assessment Rates

Joan Albert reported that the overhead assessment rate on LTRMP funds retained at the EMTC has been reduced from 19 to 12 percent. The A-Team will be considering how to allocate the additional resources available due to this reduction. Marv Hubbell reported that the Illinois Department of Natural Resources has been able to drop a two percent handling assessment previously charged against funds transferred to the Illinois field stations.

Status Reports

Jerry Skalak reported on the SRC's meeting currently underway in La Crosse. The first part of the week included a series of presentations from LTRMP staff and others. Skalak made a presentation on how habitat projects are prioritized and implemented. The SRC is being asked to look at how the LTRMP can support the habitat program. The committee is also being asked for input on how the LTRMP should adjust to the effects of inflation, as well as to the impacts of potential budget cuts. Skalak said the SRC's report is expected by late December.

Substituting for Bruce Carlson, who had encountered travel delays, Don Powell reported on the LTRMP public survey being conducted under contract by the St. Paul District. [See final section of minutes for comments later made by Carlson.] A contractor administered the telephone survey to 2,500 randomly selected individuals in September and October. According to Powell, the survey was designed to assess the public's general knowledge and opinions about the Upper Mississippi and Illinois Rivers, as well as their preferences for how the system is managed in the future. Five hundred people per state were surveyed, with 300 of those coming from counties bordering the navigable portions of the river system and the remaining 200 from non-riverine counties.

Powell briefly summarized major findings from the survey, including the respondents' near unanimous agreement that it is important to take care of the river for future generations. More than 80 percent agreed with statements that the river is important for its environmental, economic, recreational, and historical values. Twenty-five percent of respondents said the river holds no particular personal importance for them.

Water quality and pollution were respondents' strongest concerns, with approximately 75 percent of people citing water quality concerns. With regard to potential future management efforts, people also expressed their strongest support for improving water quality and reducing pollution. They voiced the least support for removing the locks and dams. When asked about their priorities if it were impossible to find a reasonable compromise between environmental protection and economic development, 80 percent of respondents said environmental protection would be the most important.

Fifty-six percent of the respondents had visited the river within the last year, with wildlife observation being the most popular activity, followed by recreational boating, gambling, fishing, swimming, and hunting.

Chautauqua Refuge Project Repair

Barb Kimler provided an overview of the Lake Chautauqua Project, a 4,200 to 4,500 acre backwater complex on the Illinois River surrounded by nine miles of perimeter levees. The area is managed by the Fish and Wildlife Service for migratory waterfowl. The Lake Chautauqua EMP project was designed to address levee deterioration and sedimentation, with its resultant problems of turbidity and loss of water depth. Approval to construct two separate management cells for the benefit of migratory waterfowl and fish was granted in July 1992. The upper lake would be held at a stable 3-4 feet for diving ducks and fish, while the lower lake would be managed as a moist soil unit for dabbling ducks. The project design called for levee enhancements and construction of a pump station, along with use of a 60-year-old radial gate originally constructed by the USDA.

Kimler explained that the radial gate was lost and the levee was damaged by flooding on the Illinois River in early June. The Rock Island District hired an independent engineering firm to investigate the incident. According to the investigation, the gate structure was in place at approximately 12 noon on Saturday, June 1 and had been lost by Monday morning, June 3. The construction contractor had dewatered the upper lake in April and was working on the levee. By late May, with the Illinois River rising, the contractor had made substantial progress on the levee work, but all sections were not at design grade and slope. For the week immediately before the gate structure was lost, the contractor was focused entirely on floodfighting, attempting to raise vulnerable portions of the levee. Corps inspectors were also on-site during these floodfighting efforts and have confirmed that the weakest portions of the levee were not in the immediate vicinity of the gate.

The engineering investigators assessed four possible failure scenarios:

- Structural failure — physical evidence and engineering analysis indicate this was unlikely.

- Seepage undermined the structure — geotechnical analysis and physical evidence indicate this was unlikely.

- Flow through the gate structure created a scour hole that moved back toward structure and undermined it — there was a sufficient concrete apron to protect the structure from such action; also, the scour hole is off to the side of where the gate was located.

- Levee immediately adjacent to the gate failed — investigators believe this is what happened. A cottonwood tree on the levee, which was not at final grade and slope, may have been uprooted, taking with it a substantial root ball and opening up a seepage path. Eventually, the levee was breached and a scour hole formed.

Kimler reported that the district has concluded the contractor did not act negligently under the terms of its contract — i.e., the contractor's actions were reasonable under the conditions. Therefore, the Corps will not be pursuing a liability claim against the contractor.

According to Kimler, there are four outstanding work items if the project is to be completed per its original design:

- Closure of the levee breach
- Replacement of the gate with one of the same design
- Completion of the perimeter levee raise
- Completion of the other original contract items

The district has not completed its assessment of alternatives and cost estimates, but has targeted the end of December for submitting its recommendation to NCD. Preliminary estimates suggest that, if the gate is replaced with one of the same design, costs to complete the project could be as high as $4.8 million, of which approximately $4 million would be new costs attributable to the flood damage and resultant delays. The new gate itself is estimated at $2.6 million. Kimler stressed that these estimates are preliminary and that the district is looking at innovative gate designs in an effort to reduce costs. She estimated that simply sealing the levee breach without replacing the gate would cost approximately $700,000. The current approved cost estimate for the project is $7.1 million.

Russ Engelke indicated that the Fish and Wildlife Service staff at Chautauqua is not in complete agreement with the Corps' conclusions. Specifically, he said a reasonable person should have concluded that the levee was going to overtop and opened the gate before June 1. Given the time required to fill the upper lake, he said the gate should have been opened by May 28 or 29. Kimler said the contractor was not necessarily getting the best information available regarding the river's likely rise.

EMP-CC members discussed various potential modifications to the project design. Matt Kerschbaum said leaving the upper lake in its current condition would eliminate virtually all habitat value, leaving the Service worse off than before the EMP project was initiated. He noted that the merits of the project were initially discussed, evaluated, and prioritized in an established forum. He urged the program partners to give the same careful consideration to what should be done now, perhaps by first forming a small work group to develop a recommended plan of action. Kevin Szcodronski agreed that all options should be carefully considered and stressed the importance of exploring potential funding sources other than the EMP to complete the work.

Kimler emphasized that the expenditures to-date on the Lake Chautauqua are sunk costs. Therefore, the Corps will look at the incremental costs required to complete the project and consider whether those costs are justified by the additional habitat benefits to be gained by completing the project. Larry Hiipakka said this analysis should be done on a programmatic basis, rather then just considering completion of the Chautauqua project relative to other projects in the Rock Island District.

Several EMP-CC members expressed concern with how partner input will be sought and considered in light of the Rock Island District's December 31 target for submitting its recommendation to NCD. Hiipakka agreed that the program partners should have input, but also emphasized the importance of determining what will be done with the project in a timely manner. Kimler explained that the perimeter levee is subject to continued erosion in its present condition. Thus, the costs of repair will increase with time. In response to a question from Hiipakka, Kimler indicated that it may be possible to take some interim protective measures.

EMP-CC members agreed that a small work group, including representatives of the Corps, Fish and Wildlife Service, and Illinois DNR, should evaluate the various options and their associated benefits and costs. Hiipakka emphasized that the work group's conclusions will not substitute for the District Engineer's recommendations to NCD. He did suggest, however, that the District Engineer's final recommendations to the Division Commander be delayed until after the February EMP-CC meeting. Hiipakka also stressed that Colonel Van Epps will want to know the EMP-CC's, and possibly the UMRBA's, position on what should be done with the Lake Chautauqua project.

LTRMP Public Survey

Bruce Carlson distributed a summary of the LTRMP public survey results, along with a copy of the survey instrument. He reviewed the major findings previously described by Don Powell [see LTRMP section of minutes], noting that the survey measured what people thought at the time they were surveyed. Respondents were not asked to consider any new information in giving their answers. According to Carlson, the results demonstrate that people value the river in complex and interrelated ways. With regard to the question of people's preferences if environmental and economic objectives cannot both be met, Carlson cited results of national polling that indicate people generally reject the idea that such objectives are incompatible. He also highlighted results of the LTRMP public survey indicating that fewer than 10 percent of respondents believe laws and regulations governing recreation, commerce, and the environment have gone too far.

Carlson said he will be analyzing the data for differences among residents of the five states, as well as between residents of riverine and non-riverine counties. He will also be looking at how people's stated values relate to their expressed preferences for future river management, and at correlations between demographic variables and survey responses. Carlson said the 61 percent response rate was fairly good for a broad issue survey. He noted that respondents had somewhat higher education and income levels than the region's population at large.

Oblique Photography of HREPs

Jerry Skalak reported that a series of oblique photographs of the Upper Mississippi and Illinois Rivers were taken in September and October. The Rock Island District is in the process of cataloging the 400 photographs, which will be used for the navigation study and EMP, as well as other purposes. Each district will have a set of the photos, some of which may also be available digitally. Skalak showed several samples of the photographs.

HREP Engineering and Design Workshop

Jerry Skalak reported that the three districts and two divisions participated in an October workshop to exchange information about the planning, engineering, and construction of habitat projects. The workshop included site visits as well as presentations from each district on "lessons learned." Among the topics discussed was how to reduce the risks associated with floodplain construction. Minutes of the workshop will be available to other program partners. A workshop to obtain feedback from the other partners will be held in late spring or early summer 1997.

HREP District Updates

Sharon Cotner reported that the Stump Lake Item 3 contract is 100 percent complete, with the final inspection having been completed on September 25. The Item 1 and Item 2 contracts are 99 and 90 percent complete, respectively. The Swan Lake Item 1 contract is 100 percent complete. The Item 3 contract is 60 percent complete and will require additional funds. The Item 2 contract will have to be readvertised due to lack of funds. The St. Louis District is currently redesigning the Item 2 work and hopes to award the contract in June 1997. Cotner also reported that the district hopes to award the Cuivre Island contract in April 1997. The Cuivre Island project cooperation agreement (PCA) is under consideration and outstanding issues will be addressed in the coming months. The district recently responded to headquarters comments on the final definite project report (DPR) for the Batchtown project and is awaiting headquarters comments on the Calhoun Point final DPR. The district continues to work on the Stag Island project and hopes to complete the draft DPR by February 1997.

Don Powell reported the St. Paul District has completed 15 HREPs. The East Channel project is the district's most recent HREP to be completed. Three projects, Trempealeau, Rice Lake, and Mississippi River Bank Stabilization, are under construction; five other projects are in general design and planning. Plans and specifications are underway for Pool 8 Islands Phase II and Stage 2 of the Mississippi River Bank Stabilization project. According to Powell, the St. Paul District has also developed small scale drawdown plan that could be implemented in 1997.

Paul Kowalczyk reported that performance evaluations are underway for the Andalusia and Potters Marsh projects. A public ceremony dedicating the Potters Marsh project is planned for June 1997. The Spring Lake project is 50 percent complete. The contract has been awarded for the Princeton project, and construction is expected to begin soon. Work on the plans and specifications for the Cottonwood Island project are underway, and contract award is targeted for April 1997. The Rock Island District has sent the PCA and Section 215 agreement for Banner Marsh to Illinois for review. DPRs for the Rice Lake, Pool 11 Islands, Gardner Division, and Lake Odessa projects are also pending. The district will not be expending further effort on the Lake Odessa DPR until results of the cultural resources survey are evaluated.

Other Business

The next EMP-CC meeting was set for May 13-14, 1997 in the Twin Cities. Steve Johnson suggested that a site visit to the Rice Lake project be scheduled in conjunction with that meeting. With no further business, the meeting was adjourned at 1:54 p.m.

EMP-CC Attendance List
November 21, 1996

Larry Hiipakka	U.S. Army Corps of Engineers, NCD	312-353-6356
Matt Kerschbaum	U.S. Fish and Wildlife Service, Region 3	612-725-3536x211
George Garklavs	U.S. Geological Survey	612-783-3106
Bill Franz	U.S. Environmental Protection Agency, Region 5	312-886-7500
Al Ames	U.S. Department of Transportation, Maritime Administration	847-298-4535
Marvin Hubbell	Illinois Department of Natural Resources	217-785-8287
Kevin Szcodronski	Iowa Department of Natural Resources	515-281-8674
Steve Johnson	Minnesota Department of Natural Resources	612-296-4802
Gordon Farabee	Missouri Department of Conservation	314-751-4115x353
Terry Moe	Wisconsin Department of Natural Resources	608-785-9004
Tom Hempfling	U.S. Army Corps of Engineers, NCD	312-353-6351
Joan Albert	U.S. Army Corps of Engineers, NCD	312-353-1279
Tom Pullen	U.S. Army Corps of Engineers, LMVD	601-634-5851
Bruce Carlson	U.S. Army Corps of Engineers, St. Paul	
Don Powell	U.S. Army Corps of Engineers, St. Paul	612-290-5402
Paul Kowalczyk	U.S. Army Corps of Engineers, Rock Island	309-794-5210
Kenn Shoemaker	U.S. Army Corps of Engineers, Rock Island	
Jerry Skalak	U.S. Army Corps of Engineers, Rock Island	309-794-5605
Barb Kimler	U.S. Army Corps of Engineers, Rock Island	309-794-5643
Brad Thompson	U.S. Army Corps of Engineers Rock Island	
Sharon Cotner	U.S. Army Corps of Engineers, St. Louis	314-331-8045
Mike Thompson	U.S. Army Corps of Engineers, St. Louis	314-331-8039
Dave Gates	U.S. Army Corps of Engineers, St. Louis	314-331-8478
Pam Thiel	U.S. Fish and Wildlife Serivce, La Crosse	608-783-8431
Ross Adams	U.S. Fish and Wildlife Service, Mark Twain NWR	217-224-8580
Dick Steinbach	U.S. Fish and Wildlife Service, Mark Twain NWR	217-224-8580
Russell Engelke	U.S. Fish and Wildlife Service, IL River Refuges	309-535-2290
Walter Redmon	U.S. Environmental Protection Agency, Region 5	312-886-6110
Gary Clark	Illinois Department of Natural Resources	317-785-3334
Jim Harrison	MN-WI Boundary Area Commission	715-386-9444
Jonathan Ela	Sierra Club	608-257-4994
Ted Illston	Northeast-Midwest Institute	202-544-5200
Holly Stoerker	Upper Mississippi River Basin Association	612-224-2880
Barb Naramore	Upper Mississippi River Basin Association	612-224-2880

ATTACHMENT B

Program Management

- EMP Spreadsheet
- Corps of Engineers Activity Report
- Summary of Proposed Division Restructuring Plan

UMRS-EMP EXPENDITURES AND ALLOCATIONS
($000)

		NON-FED EST COST	TOTAL EXP. THRU 95	UNEXP. CARRY IN	ALLOC.	FY 96 FY96 SCHED EXP.	30 SEP ACTUAL OBLIG.	30 SEP ACTUAL EXP.	UNEXP CARRY IN	ALLOC.	FY 97 TOTAL EXP. SCHED.	31 Dec 96 ACTUAL EXP.	TOTAL SCHED. OBLIG.	31 Dec 96 ACTUAL OBLIG.	ADDIT. CAPAB.	TOTAL	
PROGRAM ELEMENTS																	
HABITAT PROJECTS		4,557	53,870	4,950	10,377	15,327	11,441	13,676	1,629	9,283	10,912	2,951	9,493	3,135	1,811	124,120	
	HABITAT EVAL/MONITORING		2,758	123	628	751	530	577	88	500	588	63	500	66	0	6,188	
PROGRAM COOR.			6,743	28	595	623	603	593	36	477	513	170	485	182	0	10,594	
	REPORT TO CONGRESS		0	40	287	327	140	156	171	300	471	55	467	90		727	
LTRM			40,076	265	5,955	6,220	6,089	6,103	218	5,886	6,104	24	5,886	27	0	74,674	
RECREATION PROJECTS	NCS		9													9	
ECON. IMPACTS OF REC.	NCS		768													768	COMPLE
TRAFFIC MONITORING	NCR		206													206	COMPLE
TOTALS		4,557	104,430	5,406	17,842	23,248	18,803	21,105	2,142	16,446 *3	18,588	3,263	16,831	3,500	1,811	217,286	*2
TOTALS BY ORGANIZATION																	
	NCR	3,440	28,383	752	4,653	5,405	4,399	4,111	1,295	4,731	6,026	1,410	5,012	1,420	751	62,305	
	NCS	397	22,717	738	4,312	5,050	4,310	4,694	354	3,444	3,798	880	3,471	1,001	150	49,311	
	LMS	720	13,003	3,612	2,893	6,505	4,110	6,295	210	2,385	2,595	949	2,462	1,049	910	35,260	
	NCD (LTRM/UMRBA)		40,205	304	5,984	6,288	5,984	6,005	283	5,886	6,169	24	5,886	30	0	74,845	
	LMVD		122		0	0	0	0		0	0					122	
TOTAL		4,557	104,430	5,406	17,842	23,248	18,803	21,105	2,142	16,446	18,588	3,263	16,831	3,500	1,811	245,955	*1

NOTES:

*3

*1 Includes $24,112,000 unprogrammed additional capability if program fully funded thru FY 02.

*2 Does not include the $24,112,000 unprogrammed due to ceiling constraints.

*3 $16,694,000 minus Savings and Slippage of $697,000 and of set by $649,000 reprogrammed to project.

*4 FY 97 LTRM allocation of $5,886,000 reflects a transfer of $69,000 from LTRM to NCS to cover Habitat Project Evaluation.

Total Federal Estimate 241,398

UMRS-EMP EXPENDITURES AND ALLOCATIONS
($000)

9:34 AM1/27/97

	TOT. EXP THRU 95	CARRY IN	ALLOCA.	FY 96 SCHED. EXP.	30 SEP ACTUAL OBLIG.	30 SEP ACTUAL EXP.	FY97 CARRY IN	ALLOCA.	FY 97 TOTAL FY EXP. SCHED.	31 DEC 96 ACTUAL EXP.	TOTAL FY ACTUAL OBLIG.	31 DEC 96 SCHED OBL.	ADDIT. CAPAB.	TOTAL	
HABITAT EVAL/MONITORING													*1		
BIO-RESPONSE TO HREP															
NCR	306	0	67	52	47	37	30	80	110	2	80	2	0	578	
NCS	855	6	134	140	175	181	0	45	45	2	45	3	0	1,259	
LMS	190	27	-8	19	1	19	0	55	55	0	4	0	0	467	
BASELINE MONITORING														0	
NCR	173	2	14	40	9	16	0	15	15	3	10	3	0	242	
NCS	253	6	64	70	9	15	0	65	65	3	65	5	0	707	
LMS	232	28	11	39	15	35	4	20	24	4	36	4	0	367	
HABITAT PROJECT EVAL														0	
NCD	27	5	0	1		0	5	0	0	0	0	0	0	27	
NCR	274	0	223	218	214	181	42	85	127	42	141	42	0	1,124	
NCS	312	10	110	120	38	48	0	90	95	5	86	5	0	957	
LMS	136	39	13	52	22	45	7	45	52	2	33	2	0	460	
HABITAT EVAL/MONITORING SUB-TOTALS														0	
NCD	27	5	0	1	0	0	5	0	0	0	0	0	0	27	
NCR	753	2	304	310	270	234	72	180	252	47	231	47	0	1,944	
NCS	1,420	22	308	330	222	244	0	200	205	10	196	13	0	2,923	
LMS	558	94	16	110	38	99	11	120	131	6	73	6	0	1,294	
HABITAT EVAL/MONITORING TOTALS	2,758	123	628	751	530	577	88	500	588	63	500	66	0	6,188	
PROGRAM COORDINATION							*1							0	
NCD	583	7	10	17		13	4	13	13		0			706	
NCR	2,194	0	312	312	312	315	0	204	204	66	201	64		3,820	
NCS	1,368		148	148	148	133	12	135	151	53	141	64		2,537	
LMS	1,045	18	125	143	143	129	20	125	145	51	143	54		1,975	
LMVD	71	0	0	0	0			0	0					71	
USFWS	1,482	3	0	3	0	3	0	0	0					1,485	
PROGRAM COORDINATION TOTALS	6,743	28	595	623	603	593	36	477	513	170	485	182	0	10,594	
REPORT TO CONGRESS	0	40	287	165	112	156	171	300	471	55	467	90		727	
LTRM															
EMTC	37,295	218	5,838	6,056	5,838	5,858	198	5,825	6,023		5,825			71,162	
LTRM COORDINATION														0	
NCD	123	17	0	17				0	0					123	
LMVD	51	0	0	0				0	0					51	
NCR	504	0	4	3	4	4		0	0					528	
NCS	443	0	4	5	0	0	4	0	5	5	0	0		467	
LMS	194	5	4	9	8	8	1	4	5	5	4	4		227	
ADDITIONAL LTRM														0	
NCD	695	25	75	100	100	86	14	45	59	2	45	11		1,065	
NCR	351													351	
NCS	195		30	30	148	147	1	0	0					475	
LMS	225	0	0	0	0	0		0						225	
NCD MGT REVIEW TEAM	0	0						12	12	12	12	12		12	
LTRM TOTALS	40,076	265	5,955	6,220	6,098	6,103	218	5,886	6,104	24	5,886	27	0	74,674	
RECREATION NCS	9													9	
ECON. IMPACT NCS	768													768	COMPLETE
TRAFFIC MONI NCR	206													206	COMPLETE
TOTALS	50,560	456	7,465	7,759	7,343	7,429	513	7,163	7,676	312	7,338	365	0	93,166	

Note: *1. District and Division Managers are allowed to move their unobligated Carry-in among admin. categories to better manage limited funds (Line items do not directly track through FY 96 to FY 97 Carry-in).

PREPARED BY FRANK MONFELI1/27/97

Admin Summary Page

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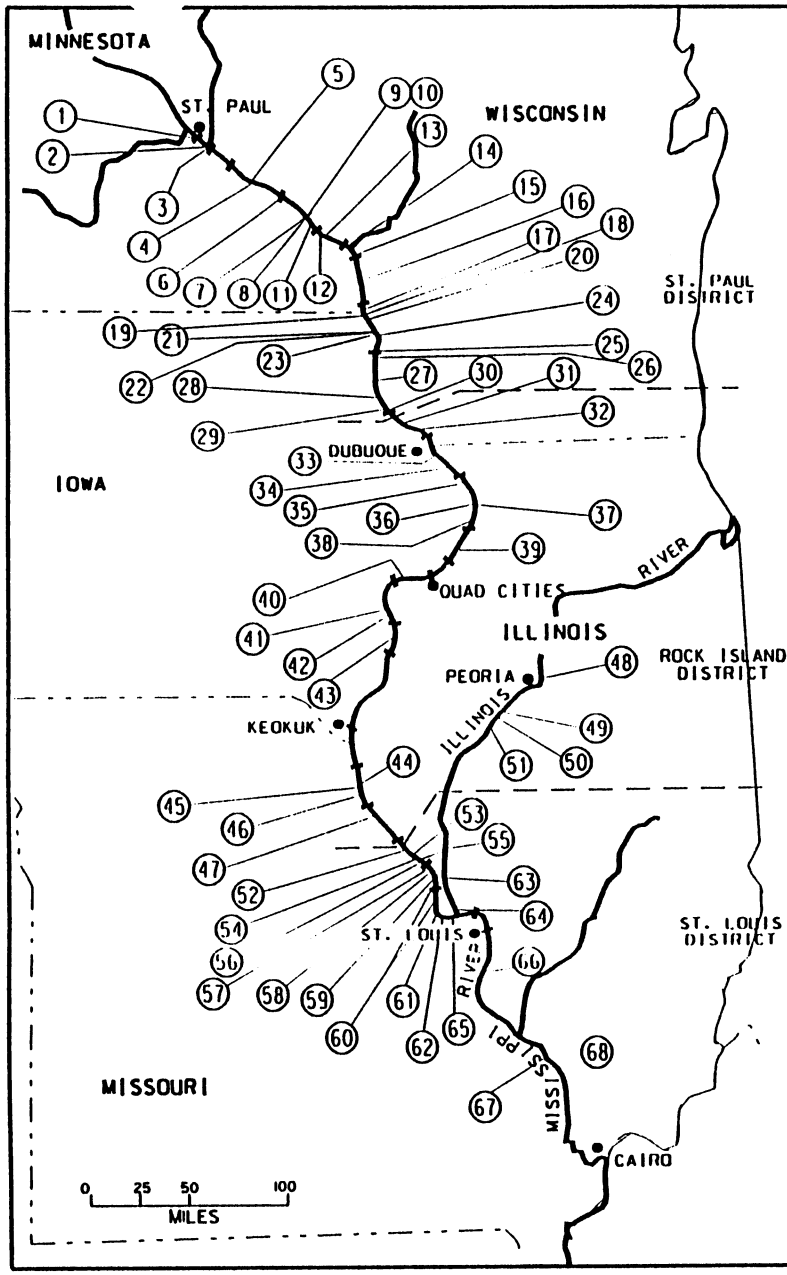

SITE NO.	PROJECT	DISTRICT AGENCY	STATUS (AS OF JAN 97)
NA	GENERAL PLAN	NCD	UNDERWAY
NA	LONG TERM RESOURCES MONITORING	USGS	UNDERWAY
NA	ECONOMIC IMPACTS OF RECREATION	NCD	COMPLETE
NA	TRAFFIC MONITORING	NCR	COMPLETE
NA	REPORT TO CONGRESS	NCD/ROCK ISLAND	UNDERWAY

HABITAT REHABILITATION

SITE NO.	PROJECT	STATUS
1.	RICE LAKE, MN	UNDERWAY
2.	LONG MEADOW LAKE, MN	DEFERRED
3.	GOOSE LAKE, MN	DEFERRED
4.	PETERSON LAKE, MN	COMPLETE
5.	INDIAN SLOUGH BACKWATER, WI	COMPLETE
6.	FINGER LAKES, MN	COMPLETE
7.	ISLAND 42, MN	COMPLETE
8.	WHITEWATER RIVER, MN	DEFERRED
9.	SPRING LAKE PENINSULA, WI	COMPLETE
10.	SPRING LAKE ISLANDS, WI	SCHEDULED AFTER FY 98
11.	POLANDER LAKE, MN	SCHEDULED AFTER FY 98
12.	BLACKBIRD SLOUGH, MN	DEFERRED
13.	TREMPEALEAU REFUGE, WI	UNDERWAY
14.	LONG LAKE, WI	DEFERRED
15.	LAKE ONALASKA, WI	COMPLETE
16.	EAST CHANNEL, WI/MN	UNDERWAY
17.	POOL 8 ISLANDS, PHASE I, WI	COMPLETE
18.	POOL 8 ISLANDS, PHASE II, WI	SCHEDULED AFTER FY 98
19.	POOL SLOUGH, IA/MN	SCHEDULED AFTER FY 98
20.	BLACKHAWK PARK, WI	COMPLETE
21.	LANSING BIG LAKE, IA	COMPLETE
22.	CONWAY LAKE, IA	DEFERRED
23.	CAPOLI SLOUGH, MN	SCHEDULED AFTER FY 98
24.	POOL 9 ISLAND PROTECTION, WI	COMPLETE
25.	COLD SPRINGS, WI	COMPLETE
26.	HARPERS SLOUGH, WI	SCHEDULED AFTER FY 98
27.	AMBROUGH SLOUGH, WI	SCHEDULED AFTER FY 98
28.	BUSSEY LAKE, IA	COMPLETE
29.	GUTTENBERG PONDS, IA	COMPLETE
30.	MISS RIVER BANK STABILIZATION	UNDERWAY
31.	BURTON McCARTHEY LAKES, WI	COMPLETE
32.	POOL 11 ISLANDS, WI	FY 98 NEW START
33.	PEOSTA, IA	SCHEDULED AFTER FY 98
34.	MOLO SLOUGH, IA	SCHEDULED AFTER FY 98
35.	PLEASANT CREEK, IA	SCHEDULED AFTER FY 98
36.	BROWN'S LAKE, IA	COMPLETE
37.	SPRING LAKE, IL	UNDERWAY
38.	POTTERS MARSH, IL	COMPLETE
39.	PRINCETON REFUGE, IA	UNDERWAY
40.	ANDALUSIA REFUGE, IL	COMPLETE
41.	BIG TIMBER, IA	COMPLETE
42.	LAKE ODESSA, IA	SCHEDULED AFTER FY 98
43.	HURON ISLAND, IA	DEFERRED
44.	GARDNER DIVISION, IL	SCHEDULED AFTER FY 98
45.	COTTONWOOD ISLAND, MO	FY 97 NEW START
46.	MONKEY CHUTE, MO	COMPLETE
47.	BAY ISLAND, MO	COMPLETE
48.	PEORIA LAKE, IL	UNDERWAY
49.	BANNER MARSH, IL	FY 98 NEW START
50.	RICE LAKE, IL	SCHEDULED AFTER FY 98
51.	CHAUTAUQUA REFUGE, IL	UNDERWAY
52.	CLARKSVILLE REFUGE, MO	COMPLETE
53.	ALTON POOL, IL	TERMINATED
54.	PHARRS ISLAND, MO	COMPLETE
55.	ANGLE BLACKBURN, MO	DEFERRED
56.	NORTON WOODS, MO	DEFERRED
57.	STAG & KEETON ISLANDS, MO	SCHEDULED AFTER FY 98
58.	SANDY CHUTE, IL	DEFERRED
59.	DAICHTOWN MGMT. AREA, IL	SCHEDULED AFTER FY 98
60.	POOLS 25 & 26, MO	DEFERRED
61.	CUIVRE ISLAND, MO	UNDERWAY
62.	DRESSER ISLAND, IL	COMPLETE
63.	STUMP LAKE, IL	UNDERWAY
64.	SWAN LAKE, IL	UNDERWAY
65.	CALHOUN POINT, IL	DEFERRED
66.	OSBORNE SIDE CHANNELS, IL	TERMINATED
67.	LEAST TERN, MO	DEFERRED
68.	DIKE ALTERATIONS, MO & IL	DEFERRED

UPPER MISSISSIPPI RIVER SYSTEM
ENVIRONMENTAL MANAGEMANT PROGRAM

ROCK ISLAND DISTRICT
NORTH CENTRAL DIVISION

1 JANUARY 1997

CENCD-E-PM/CENCD-P-CE 27 January 1997

Corps of Engineers Activity Report For Main-Stem Upper Mississippi River System Activities

I. ST. LOUIS DISTRICT (LMS)

A. Navigation

1. Melvin Price Locks and Dam - Both the main lock and the auxiliary lock are open to traffic. Remaining project work includes construction of the visitor center, esplanade facilities, highway intersection, visitor parking area, recreation facilities (cost-shared with Alton, Illinois). This work will continue through 2001.

2. Review of Avoid and Minimize Measures - In Mar 94, Headquarters, U.S. Army Corps of Engineers (HQUSACE) approved the Avoid and Minimize Program, and directed it be funded from Operations and Maintenance (O&M) funds. Hydrologic and biological monitoring at three chevron dikes began in FY94. Construction and maintenance of mooring buoys began in FY95 and continues. Additional construction work items include chevron dikes, island bull noses, and round point structures. Monitoring, micro-modeling, and thalweg dredge disposal was accomplished during FY96. During FY97, the island bull noses, chevrons, and round point structures will be completed. Mooring buoys, monitoring, micro-modeling and thalweg dredge disposal will continue. A contract for the lower river is scheduled to be awarded in Apr 97, to environmentally enhance a side channel chute and to create interior least tern (endangered species) nesting site(s). During 1998, work will be phased back to the upper river to continue island protection chevrons and MRPS's. Thalweg dredge disposal and monitoring will likewise continue. Some wetland creation with beneficial use of dredge disposal is being contemplated.

3. Endangered Species Act Compliance, Melvin Price Locks, and Dam, Second Lock - With the assistance of the Waterways Experiment Station (WES), LMS began a study of the Federally endangered Higgins' eye pearly mussel in 1988. The study includes monitoring of five mussels beds and completing navigation impact studies on the beds for the period 1989 through 1994. A final summary report for this 7-year baseline study is being printed and distribution is expected in Jul 97. A draft report, entitled, "Measures to Minimize Harm to Lampsilis higginsi Caused by Passage of Commercial Navigation Vessels in the Upper Mississippi River" was distributed to agencies for their review in May 96. That report has been revised, and completion is now scheduled for Sep 97. The St. Louis District is planning to informally consult with the U.S. Fish and Wildlife Service in Feb 97 to determine what further action will be taken on this study.

4. Major Rehabilitation

a. Major Rehabilitation at Lock and Dam No. 25 began in FY94 with the preparation of design reports and plans and specifications. Items to be repaired or replaced include miter gates, and access bridge, culvert valves, the auxiliary lock closure structure, a lock dewatering system, the Illinois abutment, and selected electrical and mechanical items. Construction is completed on the Illinois abutment and the access bridge. The miter gates are being fabricated. Funding ceilings have been increased to allow project completion until 2000.

b. Major Rehabilitation was initiated at Lock and Dam No. 24 in FY96. The project plan provides for the rehabilitation or replacement of miter gates, the auxiliary lock closure structure, several bridge columns, and selected electrical and mechanical items. In addition, correction of an outdraft problem with bendway weirs, a protection cell and larger openings in the guardwall are proposed. Replacement of the bridge columns on six piers is underway. Funding ceilings have been increased to allow project completion in 2001.

B. Upper Mississippi River System Environmental Management Program

1. Clarksville, Missouri - Construction was completed in Apr 90. Missouri Department of Conservation reported that the 1995 moist soil plant (bottom profile showed a significant decrease in sedimentation) production was excellent. A final project evaluation report was completed in Jul 96.

2. Dresser Island, Missouri - Construction was completed in Sep 91. Monitoring results have suggested that the desired water temperature and water level controls are being achieved. Final bottom profiles surveys have been completed. The draft project evaluation report is in preparation and expected to be completed by Feb 97.

3. Pharrs Island, Missouri - Construction was completed in May 92 on the Phase I upstream, bull-nosed dike. A post-1993 flood bottom profile survey has been completed. The post-project fish survey is still in progress and will continue for several more years. Fish cover enhancement consisting of cedar tree placement, as identified in the DPR, were installed in FY 96 by MDOC staff. The draft project evaluation report is expected to be completed in FY99.

4. Stump Lake, Illinois - The project, approved for construction in Oct 92, has been subdivided into three items of construction: Item 1 includes the riverside levee, Item 2 includes interior levees and miscellaneous water control structures, and Item 3 includes the pump station. All contracts have been awarded and were delayed from 1 May 96 through 30 June 96 due to flooding. Item 1 contract is now complete. Item 2 contract is 90 percent complete. The contractor anticipates beginning the final item of work (dredging) on 21 Jan 97. Completion is anticipated in Apr 97. Item 3 contract is 99 percent complete. The only remaining item of work consists of modifying the pump right angle drives to make them submersible.

5. Swan Lake, Illinois - The project was approved for construction in Jun 93 and in Oct

93 the hillside sediment control plan was directed to be initiated. The project is subdivided into four items of construction: Item 1 is the Fuller Lake levee, Item 2 is the three pump stations, Item 3 is the Swan Lake levee and miscellaneous site work, and Item 4 is the hillside sediment control measures. Item 1 contract is complete. Item 3 contract (T.L. James) is approximately 74 percent complete. Current schedule estimates completion in Apr 97. Item 2 contract (scheduled for readvertisement in Apr 96) was delayed due to lack of funding. Meetings have been held to discuss design modifications. The District is proceeding with modifications to the plans and specifications package. Advertisement is anticipated in Apr 97. Item 4 is approximately 36 percent complete.

6. Cuivre Island, Missouri - NCD approved the final DPR (under delegated authority) in Mar 95 and in May 95, Corps Headquarters concurred with the LMS and NCD position to maintain Federal responsibility and funding for the O&M on the portion of the project located on L/D 26 mitigation lands. The Missouri Department of Natural Resources will be responsible for the O&M on the portion of the project located on state-owned lands. A Project Cooperation Agreement (PCA) was submitted to Corps of Engineers Headquarters, Civil Works, Policy Division and the Lower Mississippi Valley Project Management Division simultaneously for review 3 Jul 96. Comments from Headquarters on revised language to the PCA were received in early Jan 97. LMS is coordinating comments with MDOC prior to forwarding to OASA(CW). LMS is completed coordination with MDOC during the week of 20 Jan 97. A service clearing contract is being scheduled for Jun 97. A supply contract for most trees will be performed late FY97 or early FY98. The delays to this scheduled work have been a result of the PCA appproval process. Additional coordination with MDOC has resulted from the PCA approval. The Cuivre Island plans and specs are due to be completed in late Feb 97, with award in Apr 97.

7. Batchtown, Illinois - The draft DPR was completed and distributed for public/agency review in Mar 96. The final DPR is scheduled for submission to HQUSACE in Aug 96. Comments received from HQUSACE in Oct 96 have been resolved. The District is awaiting final approval of the DPR. A Value Engineering study was completed in Sep 96 and the study has been distributed to all agencies. As part of design efforts, LMS plans to micro-model this project to verify sedimentation impacts of the recommended plan. A modeling cost estimate is expected in late Jan 97. Initiation of modeling will depend upon availability of funds.

8. Calhoun Point, Illinois - The final DPR was submitted to HQUSACE in Jul 96 for policy review and construction approval. Comments were received in Nov 96 and responded to in Dec 96. LMS awaits final approval of the DPR.

9. Stag Island, Missouri - Preparation of a draft DPR was initiated in Apr 96 and is scheduled for completion in Apr 97. Final DPR is scheduled for Nov 97.

C. **Section 1135 Program** - LMS has submitted a Section 1135 Preliminary Restoration Plan (PRP) for the alteration of the water control point at Mississippi River Navigation Pool 25. The

modification would alter that pool's water regime to better accommodate fish and wildlife resource management needs and would consist of (1) revising the L/D 25 water control manual, (2) improving water control activation capability (via increased precision and speed of gate adjustments) at L/D 25 by equipping existing gates with motors and starters and using a computer assisted control station, (3) acquiring 600 acres of land that would be impacted by a modified water regime, and (4) excavating accumulated silt from approximately 16,5000 linear feet of channel to improve the connection of several backwater lakes to the rive in the vicinity of the current hinge point. Assuming a Feb 97 approval of the PRP, a draft Project Modification Report (PMR) would be released in Mar 98.

D. Resource Management Activities

1. A Master plan is being prepared for environmental stewardship of Federal public lands and waters on the Mississippi River betweem Saverton, IA (tailwaters of L/D 22) and the Ohio River, the Illinois River between LaGrange, IL and it's mouth, the Missouri River continguous with St. Louis and St. Charles Counties and the Kaskaskia River Navigation Project lands. This is a cooperative effort with other Federal and state agencies and public interest groups concerned with the rivers and their uses. Once completed, the Master Plan will provide a complete re-evaluation of project resources inventory, resource use objectives, land use classification and shoreline zoning, facility demand, site specific plans for development and management of public lands and waters, and environmental compliance requirements. Public involvement will be solicited throughout the process.

2. A Plan of Investigation has been prepared to identify the planning process, scope, schedule, and special requirements. River issues and resource use objectives have been identified through interagency and public input which has aided in establishing a foundation for preparing a responsive master Plan. A draft master plan has been scheduled for completion in FY98.

D. Flood Control

The St. Louis Region Study is a Reconnaissance Phase of a General Investigation study to investigate flood control for the communities along the Mississippi River and its Tributaries in the city of St. Louis and in the counties of Jefferson, Ste. Genevieve and St. Louis. The reconnaissance report was submitted to Corps headquarters in Dec 95. The study found that there is a Federal interest in proceeding to feasibility phase studies for the Chesterfield Valley, Festus and Crystal City, River Des Peres, and Kimmswick areas. The reconnaissance report has received certification and is proceeding as four separate feasibility studies. Chesterfield, Festus and Crystal City, and River Des Peres have been budgeted for feasibility starts in FY97.

II. ROCK ISLAND DISTRICT (NCR)

A. Major Rehabilitation

1. The Major Rehabilitation program in the Rock Island District began in 1986 for navigation structures located on the Mississippi River. Rehabilitation projects have since been completed at Locks and Dams (L/D) 15, 16, 17, 18, 20, 21 and 22. The rehabilitation at L/D 13 is scheduled to be completed in May 97. The rehabilitation work requiring lock shutdown at L/D 13 has been completed. Plans and specifications are currently being prepared for the Stage I lock rehabilitation at L/D 14. The Stage I lock contract was awarded in Dec 97 . The Stage I lock closure at L/D 14 is scheduled for Dec 97 through Feb 98.

2. A Major Rehabilitation Evaluation Report for L/D 12 was prepared and submitted for consideration in FY95. This report has not been approved for Major Rehabilitation project funding.

3. The Major Rehabilitation project on the Illinois Waterway for the four locks of Lockport, Brandon Road, Dresden Island and Marseilles is complete.

B. Upper Mississippi River System Environmental Management Program

1. Brown's Lake. IA - The final supplemental Performance Evaluation Report is scheduled for distribution in Feb 97. New fisheries data from the Iowa DNR and the results of Iowa State University's tree revegetation study are included in the report.

2. Andalusia, IL - The State of Illinois is operating the project under a cooperative agreement with the USFWS. The Corps has corrected several construction problems with the project with the final item, improvement to the access road, to be corrected in the summer of 1997. The district continues to provide technical support to the State to facilitate project operation. A draft Performance Evaluation Report was issued in Nov 96. The final Performance Evaluation Report with all comments included is scheduled to be completed in Mar 97.

3. Big Timber, IA - A draft supplemental Performance Evaluation Report will be issued in Jun 97.

4. Bay Island, MO - A draft Performance Evaluation Report is scheduled to be issued in Feb 97.

5. Peoria Lake, IL - Minor construction is continuing on rock work needed to turnover the project. A draf Performance Evaluation Report is scheduled to be issued in Oct 97.

6. Spring Lake, IL - The contractor has completed 57% of the construction as of Dec 96. Levee and structural work in the upper lake, including the pump station, is near completion. The construction on the hemi-marsh is also nearly complete. Work is continuing on the lower lake levee.

7. Princeton, IA - The contractor has initiated construction and has accomplished 3% of the contract. Work is proceeding as the weather permits.

8. Potters Marsh, IL - The LTRM field station at Bellevue, IA is completing its initial report on the potholes. This report will be incorporated into the performance evaluation report scheduled for Jun 97. A seperate contract for conducting fishing creel surveys was awarded and the results will also be incorporated into the performance evaluation report.

9. Lake Chautauqua, IL - The investigation of the loss of the radial gate structure has been completed by the AE firm contracted by the Corps. The probable cause of the failure has been determined to be the result of erosion of the levee adjacent to the structure which created a large scour hole that the radial gate slid into. Based on the AE investigation results, the Corps has determined that under the contract there is no contractor liability. The contractor's actions prior to the loss of the structure were not inconsistent with those of a reasonable contractor. The failure was a direct result of 1996 flooding. The portions of the current contract that could not be completed due to the loss of the structure were terminated. The remaining work, which includes the pump station, cross dike levee, and inlet channel are now 95% complete. The final work on this contract will be completed inthe Spring of 1997. The remaining perimeter levee work and replacement of the water control structure are being designed at this time. A biological work group, composed of the USFWS and the State of IL representatives has met twice with the Corps since the EMP-CC, in Nov 96, requested them to review repair alternatives from a biological perspective. The work group has not completed its review, but is expected to give a report to the EMP-CC at the Feb 97 meeting that includes a recommendation.

10. Banner Marsh, IL - A draft project cooperation agreement (PCA) and associated Section 215 agreement have been forwarded to the State of Illinois for review. The agreements must still be reviewed and approved at the Corps headquarters and ASA(CW) level. As of 21 Jan 97, the Corps is awaiting the completion of the state review. Following final approval and execution of the agreements, the State of Illinois will complete critical levee repairs with state funds and receive credit toward their share of the project costs.

11. Pool 11 Islands, WI - A tentative listing and prioritization of project alternative features was developed in a Dec 96 coordination meeting. A Draft DPR is scheduled for Apr 97.

12. Cottonwood Island, MO - Construction on the project was initiated with the execution of a timber clearing contract in select areas where project construction is to occur. That contract is nearing completion. The construction contract for the EMP funded portion of the project was advertised on 13 Jan 97, with a bid opening scheduled for 12 Feb 97. Award is scheduled for Mar 97.

13. Lake Odessa, IA - A phase II archeological survey contract has been awarded and

all of the field work is complete. The report of findings is expected to be issued in Mar 97. After evaluating the recommendations, a decision on how to proceed with the project will be made. The draft DPR is scheduled for Nov 97.

14. Gardner Division, IL - Design work is continuing toward a draft DPR in Nov 97.

15. Rice Lake, IL. The State of Illinois continues to indicate its support for a project at Rice Lake, IL. The draft DPR is scheduled for in Feb 97. At that time, based upon the costs shown, a decision will be made on the ultimate scope of the project.

16. Pleasant Creek, IA - A survey has been initiated for this project.

17. Molo Slough, IA/ Pleasant Creek, IA/ Peosta Channel, IA - These projects are being deferred pending the availability of additional funds.

18. Biological Response study efforts - Aerial waterfowl inventories have been conducted at the Peoria Lake and Lake Chautauqua projects covering fall and spring migration for the past 5 years. Continuance of weekly waterfowl censuses during Fall of 1996 and Spring of 1997 and subsequent preparation of the 1996-97 Annual Report by the Illinois Natural History Survey will complete the sixth year of waterfowl bioresponse studies at these two projects. Bio-response studies of vegetation, fish and mussels have been initiated as features of both projects are being constructed or recently completed. A study of larval fish use of Lake Chautuaqua was initiated in the Spring of 1996, and analysis of field data is currently underway, with a final report scheduled for completion in the Spring of 1997. NCR is pursuing setup of scoping meetings to determine post-construction study needs at both projects.

19. Report To Congress (RTC) - Multiple work activities requisite to preparation of the RTC are continuing. Every effort is being made to complete the draft report so as to allow public review distribution by Apr 97. Submittal of the final report to CENCD remains scheduled for Sep 97. Additional report development information is contained in the Status Update (as of 15 Jan 97) and Schedule (dated 21 Jan 97) documents provided as Attachment C in the EMP-CC Feb 97 background materials notebook. The POC for this project is Mr. Jerry Skalak, CENCR-PR-W.

D

C. Section 1135 Activities - An update will be provided in the May 97 Activity Report.

D. Upper Mississippi River - Illinois Waterway System Navigation Study.

1. The Site Specific Habitat Assessment Team (HAT) has completed their field data collection work at L/D 20, 21, 22, 24, and 25 on the Upper Mississippi River and Peoria and LaGrange L/D on the Illinois Waterway. The information collected will now be used as input

into the Habitat Evaluation Procedure (HEP) models which will help gauge potential impacts on the evaluation species. This effort will begin in the next couple weeks.

2. The collection of low flow prototype data on the Illinois Waterway for the sedment transport study which had been hampered by high water levels this summer was recently completed by WES. The latest data collection from Sep 96 provided information on the velocity discharges, suspended sediment, and waves present prior to and following vessel passage for low water levels. Data was also collected on bathymetry, bed sediments, and weather. This effort completes the data collection for this study, which had previously collected the same information during medium and high flow periods. In addition to the LaGrange Pool on the Illinois Waterway, similar data was collected for Pools 8 and 26 on the Upper Mississippi River. The data collected as part of this effort will now be analyzed and used for calibration of the sediment model.

3. Recent accomplishments of the Effects of Recreational Boating study include: CEWES-HS-L analyzing data from field measurements of wake waves and sediment resuspension generated by 6 types of recreational boats in Pool 8 for use in model development and calibration; the contractor (RUST, Inc.) completed sampling of recreational boat fleet composition; and RUST is initiating a series of workshops for delineation of navigated areas throughout the UMRS, this information will be used in the development of a GIS database showing areas navigated by recreational boats for the entire UMRS. Work is also underway on forecasting total recreational boating activity and allocation of boating activity between rive reaches.

4. The objectives of the effects of Navigation on Aquatic Plants effort are to determine the extent to which navigation-induced hydraulic disturbances and sediment resuspension affect the growth and distribution of submersed aquatic plan communities, and predict the nagnitude of these effects in the UMRS. A draft report providing analysis and interretation of data from the flume study on the resistance of vegetation to uprooting and fragmentation has been completed. Site selection for propagule field experiments is being conducted this summer, and experiments are being conducted at the WES-Lewisville Aquatic Ecosystem facility relative to the effects of sediment resuspension and depostion on plant growth.

5. Historic Properties: The draft report, Architectural and Engineering Resources of the Illinois Waterway between 130th Street in Chicago and LaGrange that was provided by the contractor has been accepted and finalized. The report documents historically significant architectural features of the Illinoise Waterway Locks and Dams. This report will be a supporting document of the Programmatic Memorandum of Agreement provided to meet National Historic Preservation Act (NHPA) requirements. The contractor, Bear Creek Archeology, is evaluating the potential for site specific impacts to archeological resources related to potential construction activities. Site visits were completed at Upper Mississippi River Locks and Dams 11-25.

6. Engineering: Work on operation and maintenance, and rehabilitation costs continue and are scheduled for completion before Jun 97. Along with other work group input, efforts continue on qualitative assessment of the small-scale and large-scale measures. Work on the draft engineering appendix for the Feasibility report has been initiated and should be completed during Jul 97.

7. Economics:

a. All draft commodity forecasts have been received by the study team. The documents have been reviewed and all comments have been furnished to the contractor for consideration. The reports include draft forecasts for grain, agricultural chemicals, animal feeds, industrial chemicals, cement, coal and petroleum products, construction materials, iron and steel, and an overall summary.

b. The Accidents and Hazardous Spill report was completed Aug 96. The Transportation Rate Analysis report has also been completed by TVA.

c. The simulation model development is progressing. This activity is scheduled to be completed during the first quarter of FY97. Support activities for the Environmental Work Group on Accidents and Hazardous Spills as well as Emissions and Fuel Use are ongoing and scheduled for completion this calendar year.

8. Public Involvement: The Jan 97 newsletter was mailed on 25 Jan 97. The next newsletter is scheduled to be printed during Apr 97 and mailed during May 97.

9. Coordination Committees Meeting Schedule:

Economics Coordination Committee	18 Feb 97	Chicago, IL
Governors' Liaison Committee	18 Feb 97	Chicago, IL
Navigation Environmental Coord Cmte	8 Apr 97	Moline, IL

III. ST. PAUL DISTRICT (NCS)

A. Navigation

1. Channel Maintenance - Dredging for the 1996 season was completed in early November. A total of 1,230,000 cubic yards was dredged at 37 locations. All material was placed in accordance with the District's Channel Maintenance Management Plan with 76 percent of it being placed at beneficial use sites. Approximately 870,000 cubic yards was dredged hydraulically and the remainder was accomplished with mechanical equipment. A complete summary report is being prepared.

2. Channel Maintenance Management Plan (CMMP) - The Draft EIS on the CMMP was released in November. Comments were due by 21 Jan 97. It is anticipated that the Final EIS will be completed by early spring. Implementation of the CMMP is moving forward at many locations. To provide direction to the process, real estate acquisition and placement site excavation plans have been prepared and coordinated with the River Resources Forum.

3. Channel Management Plan -

a. As one element of the CMMP, the St. Paul District is conducting channel management studies. These studies are focusing on the use of channel structures to reduce or control dredging requirements, provide a safer navigation channel, and to correct channel maintenance situations that are either causing adverse environmental impacts or are not maximizing potential habitat benefits. The use of channel structures to provide non-navigation benefits is also being considered following guidelines established by the Interagency Hydraulic Evaluation Team (IHET) working under the auspices of the RRF.

b. Lower Pool 8 Channel Management Study - The feasibility phase of this study is currently underway. An interagency meeting is scheduled for early March to review model development.

c. Pool 5 Channel Management Study - A Problem Appraisal Report is scheduled to be completed in fiscal year 1997 and the feasibility phase in fiscal year 1999. A public meeting is being held in January to get input to the problem appraisal phase.

4. Lock and Dam Rehabilitation - Construction of the new control building at Lock & Dam 5 is underway with a scheduled completion scheduled in September 1997. The shop drawing preparation and review/acceptance process continues for the crane carrier contract. The crane carrier and bulkhead hoist installation schedule will be amended as part of on-going negotiations with the contractor. Sandblasting and gate painting at Lock & Dam 7 is completed. The contract for installation of machinery at Lock and Dam 10 is underway with completion scheduled in June 1997. The new crane for Lower St. Anthony Falls is anticipated to be delivered when the carrier is delivered in May. Pending construction starts in FY 97 include the following: Control building at Lock and Dam 6, electrical and structural rehabilitation at Lock and Dam 7, and installation of crane carriers and bulkhead hoists.

5. Water Level Management - The Water Level Management Task Force (WLMTF) is an interagency advisory subcommittee to the River Resources Forum. Discussions with the WLMTF led to the elimination of historically-practiced winter drawdowns on the UMR within the St. Paul District (NCS) and the initiation of a study for water level management on the UMR within NCS. A study was initiated to increase understanding of the existing system of river regulation on the Upper Mississippi River, quantify the effects of water level management alternatives, and identify water level management alternatives that may be feasible to implement.

Pool 8 was selected as the study pool because of the availability of data about the physical and biological conditions for the pool. A variety of alternatives were evaluated, ranging from small-scale drawdowns of backwater areas to changes in river regulation involving the whole pool. Effects of the water level management alternatives on ecological conditions, navigation, recreation, and other water uses were assessed in a problem appraisal report that was completed in November 1996. A number of water level management measures appear feasible to implement, including a growing season drawdown of pool 8 of up to three feet without requiring closure of the navigation channel. Some of the water level management activities identified may be funded and implemented by agencies and organizations other than the Corps of Engineers. The water level management study complements the NCS Channel Maintenance Plan and the Channel Management Plan for the system of channel training structures. The WLMTF has provided recommendations to the River Resources Forum that included implementation of a partial pool drawdown as a pilot study and undertaking a feasibility study for water level management within the NCS. These recommendations are currently being reviewed with the goal of providing a proposed plan of action at the River Resources Forum meeting in April.

B. Upper Mississippi River System Environmental Management Program

1. Bussey Lake, IA - All construction work has been completed and the ponds are operational. An O&M manual will be prepared this year and the project will be transferred to the U.S. Fish and Wildlife Service.

2. Lansing Big Lake, IA - All construction work has been completed. An O&M manual will be prepared early this year and the project will be transferred to the U.S. Fish and Wildlife Service.

3. Finger Lakes, MN - Biological monitoring of the culvert project completed in 1994 is continuing through this fiscal year.

4. Polander Lake, MN - Current funding levels have delayed further development of the Stage 2 portion of the project, currently scheduled for fiscal year 2000.

5. Peterson Lake, MN - All construction work has been completed. An O&M manual will be prepared this year and the project will be transferred to the U.S. Fish and Wildlife Service.

6. Trempealeau NWR, WI - Placement of fill and rock protection for the three dikes of the water level control project was substantially completed in September. Installation of 3-phase electrical power for the pump stations has also been completed. Work has been suspended for the winter. The water control structures will be constructed this year.

7. Mississippi River Bank Stabilization - A contract to stabilize 3 sites in pool 10

(Norwegian Slough, East Channel, and Billy Slough) has been awarded and will start construction in the spring. Preparation of plans and specifications for the next stage of work in pool 9 (Harpers Slough area) has been initiated in order to advertise and award a construction contract this year.

8. East Channel, WI/MN - Stabilization and extension of the I-90 peninsula and stabilization of the heads of two islands has been completed. Willow planting will occur in the spring.

9. Rice Lake, MN - A contract for channelization, a control structure, and revegetation has been awarded. The contractor has mobilized equipment to the site and will start channel excavation in the lake soon.

10. Spring Lake Islands, WI - A draft Problem Appraisal Report will be prepared after further coordination with the agencies.

11. Pool 8 Phase II, WI - Preparation of plans and specifications for the approved project has been initiated. A contract may be advertised this fiscal year, pending availability of funds.

12. Pool Slough, IA/MN - A preliminary draft Definite Project Report is nearly completed for the moist soil unit project.

13. Capoli Slough, WI - Planning work has been deferred because of funding limitations.

14. Ambrough Slough, WI - Field information is currently being collected to assist in identifying potential project components.

15. Harpers Slough, IA/WI - Surveys of the existing islands and bathymetry of the area have been completed. A draft Problem Appraisal Report will be prepared this year.

16. Small Scale Drawdown, WI - A draft Definite Project Report is nearly completed to document the selection of two sites (Lizzy Pauls Pond in pool 5 and Peck Lake in pool 9) for implementation of drawdowns in 1997. Pre-project monitoring and sampling have been completed.

17. Economic Impacts of Recreation - The technical summary report is available to interested parties on the Internet.

18. UMRS Survey of the General Public -

a. Data collection was completed in October 1996. Initial results (for all respondents combined) show that citizens value the river for many reasons and have diverse opinions about

how the river system should be managed in the future. The results were announced in a press release in December 1996, which has resulted in a number of news reports and articles. Approximately 75 copies of the initial summary (handed out at the EMPCC meeting in Peoria) have been distributed to date. Presentations have been proposed for the Upper Mississippi River Conservation Committee and the Mississippi River Research Consortium annual meetings.

b. Future analytical efforts will examine the data for differences that may exist between residents of different states, between river county and non-river county residents, and between respondents familiar with different stretches of the river system. The data will also be analyzed to see what relationship respondents' values, knowledge, beliefs, and familiarity with the river have to their preferences for future management actions. This effort is targeted for completion in fiscal year 1997.

c. Selected survey results will be incorporated into the Report To Congress (RTC). At the February EMPCC meeting, members need to identify the most important information to be included in the RTC, so those analyses can be conducted first to meet the RTC deadline. Bruce Carlson (612-290-5252) of the St. Paul District is conducting the analyses.

19. Monitoring of Habitat Projects - The District is monitoring 15 projects this year to determine the degree to which habitat objectives are met. A list of 1997 HREP monitoring tasks has been distributed to partner agencies for review and comment. Elevation surveys will be conducted this year at Lansing Big Lake, Bank Stabilization sites in pool 9, Spring Lake, and at the Small Scale Drawdown sites. Vegetation surveys will be conducted at the Pool 9 Island, Bussey Lake, Finger Lakes, Indian Slough, Spring Lake, and at Pool 8 Islands Phase II projects. Winter water quality monitoring is proceeding at Lake Onalaska, Finger Lakes, Spring Lake, and Ambrough Slough. Summer water quality monitoring will be conducted at the Indian Slough project. Discharge and hydraulic measurements will be made at Lake Onalaska, Finger Lakes, Indian Slough, Spring Lake, Peterson Lake, Polander Lake, East Channel, Pool 8 Islands Phase II, and at Ambrough Slough. The District participated in development of a HREP project performance evaluation monitoring database. The database is being used in the preparation of the EMP Report to Congress.

20. Biological Response Monitoring of HREP Projects -

a. The Finger Lakes Biological Response Study has been under way since 1991. Pre-project hydrology, limnological conditions, and fishery have been thoroughly investigated, revealing some unique aspects of Mississippi River floodplain lakes. Project construction is complete, and flow through the culverts began in November 1992. Work in 1994 and 1995 included limited monitoring of water quality conditions, vegetation, and fish populations. A GIS aquatic habitat analysis and visualization application was developed using spatial data from the Finger Lakes. Intensive post-project monitoring of fish populations and limnological conditions resumed in the fall of 1995. Field work will be completed in 1997 to determine the effect of

introduced flows on habitat conditions and fish populations. An angler creel survey is being conducted this winter. The work is being performed for the District through a collaborative effort by the USGS Upper Mississippi River Science Center, the USGS Environmental Management Technical Center, the Corps of Engineers Waterways Experiment Station, and the Minnesota DNR. The study has been incorporated into the research agendas of the Upper Mississippi River Science Center and the EMP Long Term Resource Monitoring Program, augmenting HREP funding for the work by approximately 100 percent. A draft synthesis report is scheduled to be completed by the end of fiscal year 1997.

b. The Islands Biological Response Study began in 1992. The physical effects of islands and the response of aquatic vegetation are the primary subjects of investigation. Work focused on the influence of river islands on the pattern of wave action, currents, and sediment resuspension. A hydrodynamic model of Lake Onalaska was developed to evaluate the effects of islands on flow patterns. Models for estimating the areas that islands protect from wind, wave action, sediment resuspension, and current have been calibrated using data from Lake Onalaska. Measurements of the physical attributes of a number of existing islands was conducted. A final synthesis report will be completed in 1997. Work is being performed by the EMTC and the St. Paul District. Approximately 50 percent of the study cost has been funded through the EMP Long Term Resource Monitoring Program research budget.

C. Natural Resource Management Activities

1. Comprehensive Recreation Management Plan (CRMP) - A plan of study for the CRMP was completed in May 1992. The goal of the plan is to document the importance of recreation within the study area and to recommend recreation management strategies that enhance the multi-purpose values and ecological integrity of the resource. The ad-hoc task force of the River Resource Forum's Recreation Work Group, has essentially completed a comprehensive access inventory and with the assistance of the EMTC, has produced GIS based inventory maps of the NCS navigation pools. Recreational boating data has been collected for four seasons (89, 91, 93, & 95).

2. Forest Inventory - The Natural Resource Management Section of the Mississippi River Area Office has completed a forest inventory in the St. Paul District. This information is now being used to develop forest management prescriptions to restore and maintain habitat.

3. Reforestation - Approximately 6,000 tree seedlings were planted at six locations along the river during the spring of 1996. That brings the total to over 20,000 trees planted on project lands since 1992. These trees provide diversity within the floodplain forest, maintain important wildlife habitat, enhance recreational values, reduce erosion, and provide a potential source of timber for the future.

4. Dresbach Island (RM 704.5) - Approximately 15 acres of this non-active dredged

material placement site in Pool 7 is currently being rehabilitated. The sand will be capped with fine material and revegetated to mast trees. A mini-dredge was rented on purchase order and operated by Corps hired labor. Fine material was spread and incorporated in April 1996 and tree planting was completed in May 1996.

5. Richmond Island (RM 712.8) and Dresbach Island (RM 705) Bank Stabilization Projects - Both of these projects are scheduled for construction by the Corps Rivers and Harbors unit in FY 97. The projects will protect important wetlands and other high value wildlife habitat.

6. Geographic Information System (GIS) - The Natural Resource Section is developing a GIS for forest inventory and other land management information on Corps project lands. A portion of this data was provided to the National Biological Service in Onalaska, WI, for use in their Migratory Bird Management Strategy. This information will serve as an important data layer in combination with other wildlife and natural resource datasets, and will be part of a computer interface program intended for use by various Mississippi River Resource managers. It is anticipated that the entire Corps dataset will be made available to other agencies upon completion.

7. Nesting Success of Neotropical Migrant Songbirds in Mississippi River Floodplain Forests - NCS cost shared a study in 1996 by the National Biological Service to determine the nesting success of neotropical migrant songbirds in floodplain forests on Corps fee title lands. This study provides important information for use in forest management decision making.

D. The Big River Partnership

The Big River Partnership Summit Meeting - 1997 is scheduled to be held in St. Louis, Missouri, on February 6-7, 1997, at the Airport Marriott. The goals of this second Summit Meeting are to review the accomplishments of the five study teams, evaluate the Big River Partnership's efforts as a whole, determine how to make identifiable projects a reality, and integrate economic issues into established objectives.

FYI

No. 97-003
January 24, 1997

SECRETARY OF THE ARMY APPROVES
REVISED CORPS OF ENGINEERS DIVISION RESTRUCTURING

Secretary of the Army Togo D. West, Jr. approved a revised plan to restructure the U.S. Army Corps of Engineers divisions in accordance with two provisions in recent legislation.

The plan creates a new division structure of 8 divisions with each division containing at least 4 subordinate districts. The plan also reassigns some districts to new divisions.

"There was some concern in Congress with our previous plan as to whether we could effectively coordinate the regional issues and a concern as to whether we would be able to continue to support our military construction mission in the Pacific Rim," said H. Martin Lancaster, Assistant Secretary of the Army (Civil Works).

The major components of the revised plan involve realigning the staffs of four current division offices into two divisions, each under the control of a single commander. The new Great Lakes and Ohio River Division will consist of the staffs currently at the North Central and Ohio River divisions, located in Chicago, Ill. and Cincinnati, Ohio, respectively. The new Northwestern Division will consist of the staffs currently at the North Pacific and Missouri River divisions, located in Portland, Ore. and Omaha, Neb., respectively. Division headquarters will remain open at all four locations to better coordinate and address regional issues.

Additionally, the current New England Division, which is already an operating division similar to a district, will be converted to the New England District and will be placed under the control of the North Atlantic Division Commander in New York City.

The plan also alters the authority line for a number of districts. Two districts managing the Upper Mississippi Valley (St. Paul and Rock Island districts) will be realigned with four districts in the current Lower Mississippi

-more-

Valley to create a new Mississippi Valley Division and enhance the integrity of the watershed management of the Mississippi River. The plan also calls for the Alaska District to report to the Pacific Ocean Division, based in Honolulu, and for the Albuquerque District to report to the South Pacific Division in San Francisco. Alaska and Albuquerque currently report to the North Pacific in Portland, Ore. and Southwestern divisions in Dallas, respectively.

The revised plan is in response to Public Law 104-206 Energy and Water Development Appropriations Act, 1997, which directs the Corps of Engineers to reduce the number of its divisions. A provision in Public Law 104-303, the Water Resources Development Act of 1996, prohibited the reassignment of the St. Louis District of the Corps of Engineers from the operational control of the Lower Mississippi Valley Division. The St. Louis District will continue to be under the control of the newly renamed and aligned Mississippi Valley Division. The plan will now be transmitted to Congress.

"We are eager to move forward on this directive," said Lt. Gen. Joe N. Ballard, Chief of Engineers, U.S. Army Corps of Engineers. Ballard noted that in addition to meeting the requirement of the law to reduce the number of divisions, the plan also meets other criteria he established: optimizing support to military forces, minimizing district realignments and maintaining geographical balance. The plan also ensures continued customer service, ensures the management of major watershed basins stays under a single division headquarters, and minimizes work disruptions and personnel turbulence.

Mr. Lancaster said that the details of the implementation of restructuring were still being developed and that the Corps would begin the implementation on April 1, 1997 as provided by the law.

-end-

For more information, contact Carol Sanders, Army Corps of Engineers Public Affairs, (202) 761-0011 or 761-1802.

ATTACHMENT C

Long Term Resource Monitoring

- Correspondence related to FY 97 Abbreviated Annual Work Plan
- Science Review Committee Report — Executive Summary

United States Department of the Interior
U.S. Geological Survey
Environmental Management Technical Center
575 Lester Avenue, Onalaska, Wisconsin 54650-8552

IN REPLY REFER TO:

January 7, 1997

Mr. Dwight A. Beranek, P.E.
Director, Engineering and
Technical Services Directorate
NCD, U.S. Army Corps of Engineers
111 North Canal Street
Chicago, Illinois 60606-7205

Dear Mr. Beranek:

The normal development process for the Long Term Resource Monitoring Program (LTRMP) Annual Work Plan (AWP) begins when we are provided a funding target by the Corps of Engineers, usually in February or March, for the upcoming fiscal year (FY). The FY 1997 funding target precipitated a chain of events that was outside the normal annual work planning process.

Working with Program partners to develop a whole series of alternatives under a variety of potential budget scenarios was time consuming. The entire process took most of the spring and summer - time usually spent in AWP development. In fact, it was not until late October that we knew the FY 1997 LTRMP budget target. Receipt of funds occurred in mid-December 1996.

Because of the unusual circumstances surrounding the FY 1997 LTRMP budget targets, I am proposing a modification of the normal AWP preparation process. We will prepare a FY 1996 progress status report and identify proposed changes for FY 1997. This abbreviated document will serve as a substitute for an entire FY 1997 AWP. Because no major changes will occur to the work efforts identified in the FY 1996 AWP, staff time could be more productively engaged in continued scientific analysis and reporting. We will provide, of course, detailed budget spread sheets to support the FY 1997 activities.

Please notify me if this course of action is not acceptable.

The Status Report and budget spreadsheets will be provided to your office by February 15, 1997. If you have questions, please call me at 608/783-7550, extension 51.

Sincerely,

Robert L. Delaney
Center Director

cc: BRD Eastern Chief Biologist

DEPARTMENT OF THE ARMY
NORTH CENTRAL DIVISION, CORPS OF ENGINEERS
111 NORTH CANAL STREET
CHICAGO, ILLINOIS 60606-7205

January 3, 1997

REPLY TO
ATTENTION OF:

Planning Division

Mr. Robert Delaney
Director, Environmental Management
Technical Center
U.S. Geological Survey
Biological Resources Division
575 Lester Avenue
Onalaska, Wisconsin 54650-8552

Dear Mr. Delaney:

A Military Interdepartmental Purchase Request (MIPR) for $5,825,000 for Fiscal Year 1997 Long Term Resource Monitoring Program (LTRM) work was provided by separate correspondence and accepted by you on 11 December 1996. Due to the $1 million Congressional addition to the FY97 appropriation for the Environmental Management Program and an NCD decision to provide full funding to LTRM, LTRM received $550,000 more funding for FY97 than originally scheduled in mid-year FY96. We understand that changes in LTRM activities for FY97 have been and are being made in order to make the best possible use of these funds and that it was impractical to provide a routine Annual Work Plan at the beginning of the fiscal year.

A fully-bound and illustrated document, such as the FY96 Annual Work Plan, is not necessary under these circumstances. In our view, however, it is essential to maintain accountability for this program by tracking the annual plans and accomplishments as we have done in the past. We suggest preparing an abbreviated work plan that includes the essential management information submitted in previous years. This would include a FY97 LTRMP spreadsheet and basic information on each work unit; funds expended last fiscal year; work accomplished last fiscal year, work to be accomplished this fiscal year (including products), and funds to be expended this fiscal year. To allow sufficient review by the program partners, we suggest the abbreviated plan be coordinated several weeks before the Analysis Team meeting scheduled for 18-19 February, that is, about the last week of January 1996.

I appreciate your continued cooperation in this matter. If you have any questions, please call me at (312) 353-6311, or Dr. Donald Williams of my Planning Management Branch, at (312) 886-5470.

Sincerely,

Dwight A. Beranek, P.E.
Director, Engineering and
Technical Services Directorate

LTRMP/EMTC Second Science Review Committee Report

presented to
United States Department of the Interior
Biological Resources Division, United States Geological Survey
Environmental Management Technical Center
Onalaska, Wisconsin

December 31, 1996

EXECUTIVE SUMMARY

This is the report of the Science Review Committee (SRC) which visited the Environmental Technical Management Center (EMTC) on November 18-20, 1996. The Committee's charge is to review the scientific activities of the Long Term Resource Monitoring Program (LTRMP) in the Upper Mississippi River Basin (UMRB). This is an appropriate time for the review because the first 5-year trend analyses have just been completed. The Committee found that the nine recommendations of the 1990 SRC have been conscientiously implemented with a high level of success. Noteworthy achievements that support the scientific activity include the development of the Computerized Information and Analysis system (CIA), external communications, and the level of cooperative activity that has been established. Continuing attention is needed to the advice of the 1990 Committee to analyze the UMRB system over a range of space and time scales, and to thoroughly examine historical data resources.

The present SRC has reviewed the legislative mandate and the social context of the LTRMP and concludes that the primary focus must be placed on the detection of trends in the entire UMRB system. Knowledge of these trends is needed to properly inform the policy debate and management of the system. Measurements need to be made of the fluxes of water, sediments and contaminants through the entire river system in order to understand more local ecosystem processes. The current monitoring effort is focused on local physicochemical and ecological sampling within certain pools. These local observations are important for understanding the structure and function of riverine ecosystems and to establish the magnitude and pattern of local variability.

Some changes are needed in the monitoring framework in order to expand from understanding the local level to understanding the entire system. System-wide trends will be measured over periods of a decade or more. Consideration should be given to selecting new sites for study so that eventually most or all pools and reaches in the system are observed. A rotation of intensive study sites can be set up so that pools and reaches are studied intensively for 3 to 5 years, then effort is transferred to other areas. After the lapse of a decade or more, the intensive effort returns to the original study sites to determine whether or not conditions have changed. Long term trends can also be studied by comparing current observations with historical data sets. Valuable efforts are being made within the CIA program to recover information on historical land use and river configuration. Similar efforts need to be made using historical information on water quantity, quality, and aquatic ecology.

Sampling protocols and methods for the pool studies are well established. The laboratory procedures for data quality assurance, quality control and information control are particularly effective. The staff is well aware that trend analysis of the current field data will permit optimization of further sampling effort. The SRC recommends that the EMTC senior staff place a high priority on analytical activities. The SRC remains concerned that much of the field sampling appears to be focused on obtaining only a few closely related measures at any one time. For example, limnological measurements and biotic sampling appear not to be simultaneous. Strong

diurnal and synoptic variability may substantially interfere with analyses made from non-coincident data. Statistical methods also deserve close scrutiny. There appears to be a deliberate effort to organize observations to meet the requirements of advanced parametric methods with stringent control requirements. However, many environmental data cannot meet parametric completeness or distribution assumptions. Historical data almost certainly will not meet such assumptions. The SRC recommends that attention be paid to non-parametric methods within the context of a "clinical" approach to sampling and analysis.

Communications are a key aspect of any mandated program. The external technical communications of the LTRMP group appear to be at a high level, but there appear to be needs for increased internal communications to optimize scientific efforts. The role of cooperating scientists from partner agencies and from regional colleges and universities is a particular strength of this program. These people expand the number of active scientists well beyond the number of the core staff, and provide important sources of background information and communication routes to the larger public. The provision of data resources from the Center via the Internet is a pioneering achievement. The SRC reminds the Center that traditional written communications remain important for the general public and for many resource managers. The SRC is concerned that the data records of the program continue to be published on paper because rapid technological change can make electronic storage media obsolete over periods of decades.

The Committee was invited to consider the prospects for continued monitoring of the UMRB beyond the current legislative mandate. The SRC recommends that the program be continued, and that any reauthorization take into account what has been learned already. In particular, processes and activities throughout the basin influence the riverine system, and the program should be authorized to study these influences. The UMRB is a large and nationally significant system which continues to change over long periods of time. Public policy decisions about the system will be shaped both within and outside traditional agencies. The EMTC staff has established an excellent information base for current and future decision making. The LTRMP provides information on physical and ecological processes at the landscape scales and, over time, will be able to provide information for regional land management. These capabilities have been achieved by effective cooperation among several federal agencies and five state partners, so that problems which span several political and administrative units may be tackled efficiently.

Following are the 16 recommendations of the current SRC. These are repeated at the end of the report with a small number of additional contextual remarks.

Strategic recommendations: the structure of the program

1. There must be increased emphasis on studies at the systemic scale and on the upstream-downstream connections that make the river system what it is. As the first step, a box-cascade model of the river system should be articulated within the guiding conceptual model and used as the basis for implementing this approach to the system.

2. A detailed quantification of inputs to the river system must be conducted to reveal the basin and watershed influence on the river, and help to identify basin problems that need to be addressed to help to maintain and improve river conditions. An increased emphasis should be placed on viewing the UMR system as a single, integrated system, which means devoting more attention to the reach, river and basin scales. This is essential and is not inconsistent with the clear intent of the legislation, even though the legislation directs primary attention to the river itself.

3. Increased emphasis must be placed on lengthening the time horizon of observations, particularly by seeking and using historical records. This is the only way in which long-term trends will be discerned in less than one or two more decades, and we doubt that either the Congress or the public will be willing to wait so long for a first assessment of changes in the UMRB.

4. To further ensure that the research conducted at EMTC will meet the mandate of the UMRB program, adapt the conceptual model to explicitly show that the impacts of management changes in the system will be evaluated in terms of multiple sets of societal goals and values, and that the scientific information necessary to achieve these evaluations will be secured. In short, incorporate social context into the conceptual model.

Operational recommendations: data collection and analysis

5. Increased attention to hydrographic, morphometric and sedimentation data is necessary to understand the river system. These characteristics drive the system yet they are receiving comparatively little attention. Model approaches can be helpful but even they are limited to available data. The association of a geomorphologist and/or sedimentation specialist with the program may be helpful in this regard.

6. There is no distinction between monitoring and data analysis; they must both be conducted to answer questions. Hence, the analysis of data should be stressed, along with the collection of data. Within the LTRMP, there should be increased and continuous analysis of data collected and comparisons with historical conditions to guide and prioritize future sampling.

   The "why" of each data collection effort must be obvious, so there needs to be a strong linkage between collection and analysis. Justifying or modifying further data collection effort in light of the results of analysis is also an opportunity to effect economies in the program.

7. It is necessary to use survey sampling and clinical statistical methods to better analyze the sampling efforts on both the spatial and temporal scales. This will help validate the approach, and help to prioritize sampling collection efforts based on input to analysis procedures. To facilitate this work, it would be desirable to associate with the program a statistician who is very familiar with clinical and survey sampling approaches using nonparametric and multivariate methods.

8. Place increased emphasis on simultaneous collection of limnological data with fish and vegetation sampling in order to facilitate analyses that will answer critical questions. Limnological sampling should include additional cations and anions, and sediment sampling.

9. Consideration should be given to a NAWQA-type approach to long-term monitoring that will sample pools intensively for 3-5 years each on a rotational basis, with an ultimate focus on systemic conditions.

A temporally staged pattern of sampling, such as this, may be the only practical way to obtain sufficient data to distinguish system-wide and local long-term trends in the face of significant short-term variability and the large geographical area.

10. The CIA/GIS/photointerpretation and remote sensing efforts appear excellent and should be continued, with additional attention to recovery of data of historical conditions. Other research can be facilitated by making additional use of the data resources provided by this program. This area of emphasis may require additional laboratory space in the Center.

Recommendations about communications

11. It is desirable to foster further in-house cooperation and sharing of resources and results. This will be essential to achieve the central goal of analyzing the status and trends of the river system in a holistic way.

12. It is desirable to further cooperative efforts with local, state and federal agencies. This is to share resources, to facilitate communication and to foster image. Include explicit consideration of what interest groups can best articulate the various goals that may be used to guide the Center's activities. Explicitly incorporate contacts with these groups into the science advisory process.

13. Volunteers may be appropriate for certain data collection activities and would be an effective way of involving the wider public directly in the program.

14. A book series of data reports (as USGS Open-File Reports or similar series) should be inaugurated, describing methods and error analyses as well as listing all the monitoring data, to provide assurance of continued accessibility of the data long after the program has ended. Consider the same approach to publishing research analyses.

Recommendations about the future

15. The Science Review Committee should meet in the next eighteen months to further evaluate the scientific efforts. This review should be held during the growing season to facilitate a limited amount of field evaluation of data collections and sites.

16. In re-authorizing this Program, Congress should consider expanding the scope of the effort to include scientific modeling of the relationships between human and natural activities in the entire UMR drainage basin as they affect the ecological status of the designated river reaches. Conditions in the river cannot be separated from conditions in the drainage basin that sustains it.

Participating members of the 1996 Science Review Committee (SRC)

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Huges STX Corporation
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Dr. Stanley A. Nichols
Department of Environmental Science
University of Wisconsin-Extension
Madison, WI 53705

ATTACHMENT D

Report to Congress

- Report to Congress Schedule
- Report to Congress Status Update

UMRS-EMP Report to Congress Schedule (as of 15 Jan 97) 1/

Milestone 2/	Baseline Schedule	Revised Schedule	Actual Completion Date	Notes
EMP Congressional Report Work Group meetings	*10/24/94, 3/8/95*		*10/24/94 3/8/95*	*Pre-project coordination/ preliminary report outline*
1 Initial Scoping Workshop	**11/7-8/95**		**11/7-8/95**	**Moline, IL**
Corps UMRS-EMP IPR/EMP-CC Project Status Review	*11/29-30/95*		*11/29-30/95*	
2 Corps internal coordination televideo conference	**2/15/96**		**2/15/96**	
Corps UMRS-EMP IPR/EMP-CC Project Status Review	*2/21-22/96*		*2/21-22/96*	
3 Regional Scoping Workshops	**4/17,24/96**		**4/17,24/96**	**Springfield, IL; LaCrosse, WI**
Corps UMRS-EMP IPR/EMP-CC Project Status Review	*5/22-23/96*		*5/22-23/96*	
4 Complete report scoping process	**6/20/96**		**6/20/96**	**Letter Report and Annotated Outline received from contractor; posted to WWW (7/7/96)**
5 Distribute draft report Chapters I and II (Introduction, History & Background)	**8/9/96**		**8/7/96**	**Draft chapters prepared by UMRBA staff; distributed to EMP-CC mailing list and others**
Corps UMRS-EMP IPR/EMP-CC Project Status Review	*8/14-15/96*		*8/14-15/96*	*LaCrosse, WI*
6 Forward Plan of Action to CENCD	**8/30/96**		**8/29/96**	
7 Complete HREP biological and engineering databases	**9/30/96**	**1/97**		
LTRMP 5 Year Trend Reports				
Contents peer-reviewed and revised	*9/96*		*10/96*	
Copy editing/formatting/reproduction	*11/96*	*1/97*		
Distribute Final Annotated Draft of Chapters I & II (Introduction and History & Background)	*10/96*		*10/21/96*	*Distributed to EMP-CC mailing list and others*
Corps HREP Engineering & Design Workshop	*10/29-30/96*		*10/29-30/96*	*Rock Island, IL*

Milestone	Baseline Schedule	Revised Schedule	Actual Completion Date	Notes
8 Alternatives Formulation Workshop	**10/96**		**10/30-31/96**	**Rock Island, IL**
LTRMP Status and Trends Report	*10/31/96*	*1/31/97*		
LTRMP Public Survey	*11/96*		*11/96*	*Presentation made by B. Carlson, CENCS, at 21 Nov 96 EMP-CC meeting*
LTRMP Science Review Committee Meetings	*11/19-21/96*		*11/19-21/96*	*Onalaska, WI*
Corps UMRS-EMP IPR/EMP-CC Project Status Review	*11/20-21/96*		*11/20-21/96*	*Peoria, IL*
LTRMP Science Review Committee Report (draft)	*11/96*		*1/7/97*	
HREP Evaluation Sections				
Water level Management (draft)	*12/96*		*12/5/96*	*Evaluation team subcommittee initial review completed*
Hydraulic Exchange (initial draft)	*12/96*	*1/97*	*1/17/97*	*Initial review underway.*
Islands and Sediment Control Structures (initial draft)	*12/96*	~~1/97~~		
9 Distribute draft report Chapters III, VI and VII (Health of the River, Other Programs, Public Perspectives)	**12/31/96**	**2/15/97**		
10 Alternatives Formulation Workshop II	**1/22-23/97**			**Moline, IL**
Corps Engineering and Design Workshop Report (final)	*1/97*			
LTRMP Science Review Committee Report (final)	*1/97*			
LTRMP Management Review Committee Report (draft)	*1/31/97*			
LTRMP Management Review Committee Report (final)	*2/97*			
11 Distribute draft report Chapters IV & V (HREP, LTRMP/CIA)	**2/28/97**			
12 Distribute draft report Chapters VIII and IX (Alternatives, Conclusions)	**3/31/97**			
Corps UMRS-EMP IPR/EMP-CC Project Status Review	*2/11-12/97*			*Chicago, IL*
Informational Open Houses on the UMRS-EMP and RTC	*3/97- 4/97*			*Locations to be determined*

Milestone	Baseline Schedule	Revised Schedule	Actual Completion Date	Notes
13 Partnership Issues Resolution Conference (IRC)	**5/97**	**4/97**		**date and location TBD**
14 Distribute draft report for agency and public review	**7/15/97**	**4/30/97**		
Corps UMRS-EMP IPR/EMP-CC Project Status Review	*5/97*			
15 Public meetings/survey(?)	**6/97**			**dates and locations TBD**
Corps UMRS-EMP IPR/EMP-CC Project Status Review	*8/97*			
16 Forward final report to CENCD	**9/30/97**			

1/ Completed actions or products are shaded.
2/ Numbered milestones relate to significant, project-specific actions and products. Italicized line items (not numbered) are events or products important to report development yet, in most cases, not unique to it.

Abbreviations/Acronyms
CENCD- Corps of Engineers North Central Division
CENCR- Corps of Engineers Rock Island District
CENCS- Corps of Engineers St. Paul District
CECW- Corps of Engineers Civil Works (Headquarters)
EMP-CC- Environmental Management Program - Coordinating Committee
HQUSACE- Headquarters United States Army Corps of Engineers
HREP- Habitat Rehabilitation and Enhancement Project
IPR- In-Progress Review
LTRMP/CIA- Long Term Resource Monitoring Program/Computerized Inventory and Analysis
NGO- Non-Governmental Organization
TBD- To Be Determined
UMRS-EMP- Upper Mississippi River System - Environmental Management Program
WWW- World Wide Web

Upper Mississippi River System - Environmental Management Program (UMRS-EMP)
Report to Congress
(RTC)

Status Update
(as of : 1/15/97)

General Project Notes:

- At the November 21st, 1996 EMP-CC meeting (Peoria, IL) the Corps committed, at the general request of the States, to reschedule the public distribution date for the report from 7/15/97 to 4/30/97. This expedited schedule will provide an extended opportunity for partner agencies and interested NGOs to develop and coordinate their positions and submit their review comments.

- The following report documents are accessible via the Internet (see address below):
  1. Report to Congress Information Paper (dated 11/22/96)
  2. Report to Congress Status Update (as of 12/11/96)
  3. Draft Report to Congress Chapters 1 & 2, Introduction and History and Background (dated 9/30/96)
  4. UMRS-EMP Report to Congress Milestones (as of 12/4/96)

  (Internet address: http://ncrsun7.ncr.usace.army.mil/emp/rtc_home.html)

  Note: Posted documents will be updated as revisions are made and resources allow.
  POC: Dr. Kevin Anderson, CENCR-PD-W, 309-794-5586

Status of Report Chapters/Sections:

1. Letter of Transmittal: (no action to date)

2. Executive Summary: (no action to date)

3. Chapter I, Introduction:

99 copies of the final draft, as prepared by the UMRBA, were distributed (EMP-CC mailing list and others) on 10/21/96. To date no additional comments have been received.

POC: Mr. Jerry Skalak, CENCR-PD-W, 309-794-5605

4. Chapter II, History & Background

99 copies of the final draft, as prepared by the UMRBA, were distributed (EMP-CC mailing list and others) on 10/21/96. Two additional comments have been received from the USFWS Upper Mississippi River Refuge Complex since distribution of the final draft. These comments, referring to USFWS Region 3's HREP implementation costs and O&M responsibilities and the Service's overall investment in the HREP program, will be addressed prior to public distribution of the report.

POC: Mr. Jerry Skalak, CENCR-PD-W, 309-794-5605

5. Chapter III, Health of the River

- **5 Year Tend Reports**

Peer review and subsequent revision of these reports has been completed. Final editing is underway. The contents of these reports will be reflected in Chapter III. They are also expected to provide context material for chapter VIII.

POC: Dr. Ken Lubinski, EMTC, 608-783-7550, ext. 61

- **Status and Trends Report**

This document draws extensively upon the 5 Year Trend Reports (see preceding item). The final draft of this document is currently out for review. Much of Chapter III and context material for Chapter VIII is expected to be provided by this document.

POC: Dr. Ken Lubinski, EMTC, 608-783-7550 x 61; Mr. Chuck Theiling, EMTC/INHS, 618-466-9690

6. Chapter IV, Habitat Rehabilitation and Enhancement Projects (HREP)

- **HREP Database:**

The three Corps districts (NCS, NCR and LMS) have completed data speadsheets for their respective HREPs. EMTC (Dr. Dave Soballe) will merge the contents of these spreadsheets into a seamless database. This action should be completed later this month. Some external review of the database contents will be pursued prior to any database queries. Database queries will provide cumulative values for incorporation in several report sections. The entire database will be included as an appendix to the report.

POC: Mr. Dan Wilcox, CENCS-PE-M, 612-290-5276; Dr. Dave Soballe, EMTC, 608-783-7550 x 55

- **HREP Evaluation:**

Nineteen members of the interagency HREP Evaluation Team met at the EMTC on 6-7 November to provide input/guidance to the previously identified lead authors (Dr. Dave Soballe and Dr. Bob Gaugush, EMTC and Mr. Chuck Thieling, INHS) for selected sections of this report chapter. A basic outline for these sections was developed. HREPs with features that exemplify the following three general feature categories: 1) hydraulic exchange; 2) islands and sediment control structures; and 3) water level management were identified. Commitments were made to have draft write-ups on these categories distributed for preliminary review not later than December 31st.

Mr. Chuck Theiling distributed an initial draft of his report section (water level management) to a subset of the HREP evaluation team on 12/5/96. Mr. Keith Beseke, UMR Fish & Wildlife Refuge HREP coordinator, provided an extensive alternative write-up for this report section in response to Mr. Theiling's draft. Efforts are underway to merge these documents for distribution, tentatively later this month, to a broader audience for review and comment.

An in-progress review with the three lead authors (see above) was held on the 19th of Dec. At that time report section development progress to date will be assessed and a plan for accomplishing product review and editing requirements developed.

Dr. Steve Havera, INHS, was contracted to develop a document summarizing the status and habitat needs of migratory waterfowl. His report was received by CENCR on January 8th. Copies of this report have been distributed to the lead authors (see above) and certain others.

An initial draft of the section on islands and sediment control features was provided to Theiling, Barko and Skalak on January 15. Copies of this draft were subsequently distributed to other CENCR offices (PD-E and ED-DN) and CENCS (Gates) and CENCS (Wilcox).

POC: Dr. John Barko, EMTC/WES-ES-P, 608-783-7550 ext. 50 or 601-634-3654

- **HREP Summaries**

The States of IA, MN and MO and the USFWS have provided HREP summaries (as requested via letter dated August 26, 1996) to CENCR. Copies of these summaries have been distributed to the 3 Corps Districts, CENCD (J. Albert) and the lead HREP evaluation section authors (see item 2 above). Summaries from the States of IL and WI have not yet been provided.

POC: Jerry Skalak, CENCR-PD-W, 309-794-5605

- **Corps HREP Engineering & Design (E&D) Workshop**

Corps staff from the three Districts and two Divisions responsible for UMRS-EMP program execution participated in an HREP engineering and design workshop held on 29-30 Oct in Rock Island, IL. Extensive review of the Corps' HREP E&D experiences was the primary purpose of this workshop. Workshop results (e.g. lessons learned, alternative solutions, etc.) will be distributed to the EMP-CC members and others yet this month. Ultimately the workshop results will be reflected in the RTC.

A second workshop is being planned for early summer '97. This workshop will include project sponsors and others. A meeting focusing on technical aspects of HREPs will be held this fall.

The creation of an inter-district engineering and design data exchange message board has been proposed.

POC: Mr. Jose Ordonez, CENCD-E-EQ-Q, 312-353-9057; Ms. Barb Kimler, CENCR-ED-DN, 309-794-5643

- **Oblique Photography of HREP Sites**

High and low oblique photography of all HREP sites on the Mississippi River and the lower reach of the Illinois River was taken on 9/24-25/96. Projects located on the middle reach of the Illinois River were photographed on October 11th. Representative samples of this photography were presented at the recent EMP-CC meeting. Many of these photographs will be used in the Report to Congress.

CENCR cataloging of this photography is continuing. This action should be completed by the end of this month.

Note: Additional uses of this photography are already being realized. Several photos have been incorporated into the Andalusia Refuge, IL HREP performance evaluation report while others were recently provided to the IA DNR for use in an upcoming IA Conservationist magazine article.

POC: Jerry Skalak, CENCR-PD-W, 309-794-5605 or Brad Thompson, CENCR-PD-W, 309-794-5256

7. **Chapter V, Long Term Resource Monitoring Program/Computerized Inventory and Analysis**

- **Management Review Committee (MRC)**

The Management Review Committee (MRC) is pushing forward on 4 primary program review fronts: 1) Program Focus; 2) Customer Focus and Satisfaction; 3) Strategic and Out-year Planning; and 4) Administration. CENCR has assumed broad MRC coordination and product development roles. Committee members are to meet on the 27th and 28th of January in the Quad Cities to review final report contents and coordinate/consolidate recommendations. The committee' s final draft report is scheduled to be completed by January 31st.

POC: Mr. Brad Thompson, CENCR-PD-W, 309-794-5256

- **Science Review Committee (SRC)**

The SRC met at the EMTC the week of November 18th, 1996. SRC informational briefings included a presentation on the HREP element of the EMP. The draft SRC report was distributed to the MRC members and certain others on 1//7/97.

POC: Mr. Bob Delaney, EMTC, 608-783-7550 ext. 51

8. Chapter VI, Other Program Components

A preliminary draft of this report chapter has been prepared by CENCS and CENCR staff. UMRBA staff are editing this draft. Distribution (EMP-CC mailing list and others) of a draft of this report chapter for initial review and comment purposes is expected to occur yet this month.

POC- Brad Thompson, CENCR-PD-W, 309-794-5256

9. Chapter VII, Public Perspectives

- **LTRMP Survey of the General Public**

Data collection (2,500 interviews) was completed in October of 1996. Initial survey results (descriptive statistics for the five states combined) were presented at the 11/21/96 EMP-CC meeting. More detailed analysis (e.g differences by region and relationships between values, knowledge, preferences for future action, etc.) of the survey results will be accomplished yet this fiscal year. The results of this survey will be included in the RTC. A news release on the survey results was provided by CENCS to the other UMR Corps Districts on 12/19/96 for subsequent distribution to major media outlets.

POC- Bruce Carlson, CENCS-PE-M, 612-290-5252

- **Program and Report Presentation Opportunities**

At the recent EMP-CC meeting a request went out for identification of those upcoming opportunities to inform (via presentations, displays, etc.) the various publics about the status of the UMRS-EMP and the RTC. To date the following opportunities have been identified:

Date	Meeting Purpose/Theme	Location
February 6-7	Summit II	St. Louis, MO
February 19	UMRBA Quarterly Meeting	Chicago, IL
March 11-13	UMRCC	Winona, MN
April 24-25	Mississippi River Research Consortium	LaCrosse, WI

POC: Mr. Jerry Skalak, CENCR-PD-W, 309-794-5605

- **Public Outreach Plan**

CENCR-PD-C is developing a public outreach plan that includes a series of informational open houses (March-April) and public meetings (June). Specific locations and dates are yet to be determined. Partner agency support and participation will be necessary. This effort will include development/revision of informational materials (brochures, displays, etc.) and a packaged presentation for general use (see preceding item). An EMP/RTC-specific survey instrument may be employed to supplement/supplant the public meetings.

POC- Sue Simmons, CENCR-PD-C, 309-794-5573

10. Chapter VIII, Alternatives

An alternatives formulation workshop was held on 30-31 October in Rock Island, IL. Representatives from the UMRBA, USFWS, MARC2000, American Rivers, NRCS, EMTC/LTRMP, CENCD, CENCR, CENCS, CELMS, MNDNR, WIDNR, MODOC, IADNR and INHS participated in this workshop. A subcommittee was tasked with developing a draft document consolidating all program alternatives identified. The subcommittee's products were distributed to the EMP-CC representatives, October workshop participants, and selected others on 12/31/96. The subcommittee's products, particularly the alternatives worksheet, will be the focus of discussion at a follow-on alternatives formulation workshop scheduled for January 22-23 (see item 11. below for additional information).

POC: Mr. Jerry Skalak, CENCR-PD-W, 309-794-5605; Mr. Dan Wilcox, CENCS-PE-M, 612-290-5276

11. Upcoming program-specific meetings and other relevant actions/activities:

January 22-23 - Alternatives Formulation Workshop II, Moline Holiday Inn, Moline, IL
February 11-12 - Corps In-Progress Review (IPR)/EMP-CC, Ramada Plaza O'Hare, Chicago, IL
April- Issues Resolution Conference (specific date and location TBD)
April 30- Public Distribution of Draft Report to Congress

Note: This update was prepared by Jerry Skalak, CENCR-PD-W, RTC Project Manager.

Acronyms/Abbreviations:

CELMS- Corps of Engineers, St. Louis District
CENCD- Corps of Engineers, North Central Division
CENCR- Corps of Engineers, Rock Island District
CENCR-ED-DN- Corps of Engineers, Rock Island District, Engineering Division, Environmental Engineering Branch
CENCR-PD-C - Corps of Engineers, Rock Island District, Planning Division, Economic and Social Analysis Branch
CENCR-PD-W- Corps of Engineers, Rock Island District, Planning Division, Waterway Systems Branch
CENCS- Corps of Engineers, St. Paul District
EMP-CC- Environmental Management Program - Coordinating Committee
EMTC- Environmental Management Technical Center
GIS- Geographical Information System
HREP- Habitat Rehabilitation and Enhancement Project
INHS- Illinois Natural History Survey
IPR- In-progress Project Review
LTRMP- Long Term Resource Monitoring Program
MRC- Management Review Committee

NGO- Non-Governmental Organization
RTC- Report to Congress
NRCS- Natural Resources Conservation Service
SRC- Science Review Committee
TBD- To Be Determined
UMRBA- Upper Mississippi River Basin Association
UMRS-EMP- Upper Mississippi River System - Environmental Management Program
USEPA- U.S. Environmental Protection Agency
USFWS- U.S. Fish and Wildlife Service
WES- Waterways Experiment Station