

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

**August 6, 2008
Quarterly Meeting**

**Radisson Hotel
La Crosse, Wisconsin**

Charles Barton of the U.S. Army Corps of Engineers called the meeting to order at 8:05 a.m. on August 6, 2008. Other EMP-CC representatives present were Charlie Wooley (USFWS), Mike Jawson (USGS), Rick Mollahan (IL DNR), Martin Konrad (IA DNR), Tim Schlagenhaft (MN DNR), Janet Sternburg (MO DoC), Gretchen Benjamin (WI DNR), and Bill Franz (USEPA). A complete list of attendees follows these minutes.

Minutes from the May 20, 2008 Meeting

Janet Sternburg requested the following two corrections be made to the draft minutes of the May 22, 2008 meeting:

1. Sternburg was asked to give a presentation to the Middle Mississippi River Partnership in June 2008, not February 2009 as indicated on page 3.
2. On page 11, the attendance list should be revised to reflect that Sternburg is with the Missouri Department of Conservation, not the Missouri Department of Natural Resources.

Gretchen Benjamin moved and Martin Konrad seconded a motion to approve the draft minutes of the May 22, 2008 meeting as corrected. The motion was approved unanimously.

Program Management

FY 08 Fiscal Update

Marv Hubbell reviewed the FY 08 EMP appropriation and funding allocation within the program:

- Total appropriation — \$16.851 million
 - Regional management — \$500,000
 - LTRMP — \$5.134 million
 - HREPs — \$11.217 million
 - MVP — \$3.365 million
 - MVR — \$4.487 million
 - MVS — \$3.365 million

In addition, the EMP has received \$5.0 million in emergency supplemental funding to repair flood-related damages. Hubbell reported that the FY 08 appropriations language restricting new design and construction, the spring and summer flooding, and staff assignments overseas and to emergency response work have been significant challenges this year. Total expenditures for EMP are below typical

levels as a result of flooding and delays in receiving state billings for LTRMP. As of the 3rd quarter, expenditures were \$9.036 million and obligations were \$12.343 million. The rates thru the 3rd quarter are as follows:

	<u>Expenditure Rate</u>	<u>Obligation Rate</u>
EMP	31	73
HREP	30	61
LTRMP	26	87

Hubbell reported that many HREP construction projects have been significantly affected by the spring and summer flooding, with the Rock Island District experiencing the largest project impacts. Moreover, many of the Corps staff who would typically have been working on plans and specifications have been diverted to flood-related duties. As a result, a large portion of the funds allocated to HREPs in FY 08 will be carried-over into the next fiscal year.

Since the flood repairs cannot start immediately, Hubbell is currently evaluating whether there are options to enhance overall program efficiency by applying a portion of the FY 08 flood repair funds to year-end contracts and purchases that are high priority, with the understanding that FY 09 appropriations would be used to “repay” these funds. Options include 1) \$500,000 to MVP for Pool 8 Phase III Stage 2B, 2) \$400,000 for LiDAR in Pool 25 through the Open River reach, 3) \$100,000 for equipment refreshment at field stations, and 4) a digital camera for land use/land cover photography in partnership with the Fish and Wildlife Service.

In response to a question from Tim Schlagenhaft about the Pool 8 project status, Hubbell verified that construction was planned to begin next year. Schlagenhaft asked whether other priorities identified in the LTRMP FY 10-14 Strategic Plan were considered. Mike Jawson noted that, while LiDAR is a top priority, it is included as an Administrative APE and is not guaranteed funding in FY 09. Hubbell added that LiDAR presents the best opportunity among Strategic Plan priorities to advance with year-end funds, based on a range of criteria, including the ability to award the contract quickly. Martin Konrad asked if LiDAR acquisition would be completed for the entire UMRS. Hubbell said that it would cover approximately two-thirds of the system, but that some of Pools 1-7 and the Illinois River would remain.

Jennie Sauer expressed support for purchasing a digital camera. She said the camera currently being used is becoming out-of-date and is no longer cost-effective. In particular, the film is becoming very difficult to find. A digital camera can produce color and infrared images simultaneously and can georeference those images. In partnership with the USFWS, the total cost of \$650,000 to purchase the camera would be equally shared. Under this arrangement, the USFWS would also provide flights in FY 10 to capture systemic LC/LU imagery.

Schlagenhaft asked if the proposed budget adjustments would take away from other priorities. Hubbell explained that funds received to reconstruct Lake Odessa will essentially be available for other uses this year since repairs cannot be initiated until next year. Investing in other purchases now may be a more efficient use of the money. In response to a question from Bill Franz, Hubbell said that no more than \$1 million of the repair funds would be advanced to FY 08 priorities. Terry Dukerschein asked whether the Corps is considering FY 10 equipment refreshment needs as well, and Hubbell said they are just looking at FY 09.

Schlagenhaft asked how the Corps would like the EMP-CC to provide input or make a recommendation. Hubbell said that the Corps is hoping to get a sense from EMP-CC of the partnership’s relative priorities among the possible options, particularly between LiDAR and the digital

camera. The Corps will then consult internally, and with USGS and the Service, to explore these various alternatives further.

Charlie Wooley emphasized that purchasing a digital camera would be a long term investment in future assessment and monitoring. The camera currently being used is quickly becoming obsolete. Also, the opportunity to use a Service pilot and aircraft would increase efficiency, and may not be an option in later years. In response to a question from Janet Sternberg, Wooley said the USFWS does not have available funding this year to cover the camera. However, the Service plans to seek supplemental funding from Congress for the digital camera since it is a high priority for Region 3.

Jawson further explained that the Service's pilot and aircraft contribution would represent a significant cost savings. If the camera is not purchased and the LC/LU flights need to be delayed past FY 10, that labor contribution may not be available. That would represent a substantial cost increase to the LTRMP in obtaining the imagery needed to develop the LC/LU coverage. Gary Wege asked if USGS has the software capable of processing the digital images, and Jawson said UMESC has Feature Analyst Software, which will significantly reduce personnel costs in processing the images, when compared with previous years.

To help EMP-CC members provide input, Barb Naramore asked the Corps to identify a bottomline FY 09 appropriation figure, below which the EMP would have trouble repaying the flood repair funds, assuming \$1 million is advanced to FY 08 priorities. Hubbell explained that an appropriation of \$17.5 million would be the lower limit. Below this level, an FY 08 investment in LiDAR or a digital camera could significantly affect the FY 09 program.

According to Hubbell, this is an opportunity to be forward looking and effectively invest in the future rather than simply letting the money roll over into next year. Brian Markert said that a gap in LiDAR data exists that, if filled, can be used immediately in project planning and would lead to potential cost savings. In light of Markert's comment, Sternburg requested that the agenda be modified to move the presentation on the draft LiDAR Plan to the next item and then return to the remainder of the program management discussion.

Long Term Resource Monitoring Program

Draft LiDAR Acquisition Plan Update

Karen Hagerty presented an update on the Corp's draft LiDAR Data Acquisition Plan to complete ongoing efforts for Pools 8-24 and to produce data for Pools 25 to the Open River and the Illinois River. No LTRMP acquisition is currently proposed for Pools 1-7 since local efforts are underway by the St. Paul District, Minnesota Department of Natural Resources, and USGS Geospatial Liaison.

The total cost to acquire LiDAR for the UMRS is estimated at approximately \$1 million. Cost estimates are about \$300,000 to complete Pools 8-24 and \$700,000 to initiate and complete Pool 25 to the Open River and the Illinois River. The proposed acquisition includes \$350,000 for Pool 25 to the Open River; \$240,000 for the Illinois River; and \$50,000 for contract supervision and administration, ground truthing per contract, and area development.

In an effort to avoid duplication and reduce costs, Hagerty said the Corps is working to establish and enhance its coordination with other federal, state, and local government agencies that already have, or are planning to, acquire LiDAR data. The Corps is communicating with USGS liaisons in each of the five UMR states to discuss potential opportunities for coordination. Janet Sternberg asked about opportunities to cost-share with states on their initiatives. Haggerty said that a conference call is scheduled for August 26, 2008 to discuss this. Marv Hubbell added that, while there are several

potential partners, the ability to collaborate in a comprehensive and timely manner is a major challenge. In response to a question from Tim Schlagenhaft, Brian Market characterized the pending LiDAR coverage as critical to MVS's project planning.

Program Management (continued)

Bill Franz asked whether there is a possibility to delay the project on Pool 8. Don Powell reported that the St. Paul District is trying to award the last options on the contract. The deadline for exercising those options has expired, and MVP is now working with the contractor to negotiate a new price and timeframe. Since the equipment is already in place, it would be more efficient to exercise the options in FY 08, rather than paying to remobilize the equipment at a later date. Marv Hubbell added that completion of Pool 8 is a priority, as reflected by its inclusion in the states' EMP Phase-Out Plan.

Mike Jawson said instead of doing equipment refreshment, funding could be put towards acquiring LiDAR and committing to a lease-to-buy agreement for the digital camera. Sternberg emphasized the importance of LiDAR data to aid HREP development and for river planning — e.g., forest floodplain restoration and hydrogeomorphic planning.

In an effort to summarize the discussion, Hubbell reviewed the main advantages of each option and expressed gratitude for the input. The Corps, USFWS, and USGS will explore the options further and will report back to the EMP-CC at the November meeting. Schlagenhaft urged that the LTRMP Strategic Plan be used to inform decisions about relative priorities. Barb Naramore said she appreciates the desire to advance program priorities and be efficient. However, given the past history of funding for EMP and the FY 08 appropriations level, she said it is important to be cautious in making assumptions about next year's EMP funding.

FY 09 Outlook

Hubbell reported that the President's FY 09 budget request included \$20 million for EMP. The Senate Appropriations Committee has approved \$18 million for EMP. While the House Appropriations Committee has not yet filed its FY 09 energy and water development report, it is believed the Committee will include \$20 million for EMP. Although the actual appropriation is unknown, the Corps is assuming \$20 million for planning purposes.

In response to comments by Mike Wells, Hubbell agreed that it is highly unlikely Congress and the Administration will complete work on the individual appropriations bills before the start of the federal fiscal year on October 1. According to Hubbell, a continuing resolution will likely be enacted, possibly followed by an omnibus measure for the balance of the fiscal year. Roger Perk said it is quite possible the EMP will be operating at FY 08 funding levels for a large part, or all, of FY 09.

Public Involvement and Outreach

Hubbell reported that the Corps is continuing to work with Dubuque Museum on the traveling display, but said there have been some personnel changes and he does not have a new estimated completion date. Hubbell said the Corps is also in the process of updating the EMP website, including the individual district's pages. Gary Wege and Scott Yess commented on the need for the website to be updated to current standards and to be more accessible via search engines. Yess added that the UMRCC is in the process of developing a new website, which will soon be out for review.

Hubbell said that an Illinois River conference has been postponed to October 2009 due to budget constraints. The conference will include topics such as ecosystem conservation.

Don Powell highlighted outreach efforts on the Pool 8 HREP, including news releases, a public information meeting, and a media day. The media day was held at the construction site. It was well attended and resulted in good coverage by local news outlets.

Gretchen Benjamin mentioned that the Wisconsin DNR, Iowa DNR, and USFWS held their annual teacher workshop recently. This year the workshop discussed restoration activities to enhance the river, specifically highlighting the EMP. Benjamin and Powell also reported that the Corps used the Pool 8 project for a recent national ecosystem restoration class, geared primarily to Corps students.

Don Hultman said the USFWS Director and Regional Directors are meeting this week in La Crosse, Wisconsin. The Directors will take a field trip to dedicate an overlook area at the Brownsville HREP. Hultman said the site provides excellent swan viewing and is very accessible, thus offering important outreach opportunities.

Hubbell mentioned that USACE planning associates from throughout the country visited the Lake Chautauqua HREP on the Illinois River as part of a session on ecosystem restoration. The class went well and the associates gave positive feedback.

Habitat Rehabilitation and Enhancement Projects

District HREP Reports

Marv Hubbell announced that Don Powell will be retiring on September 2. Tom Novack will become MVP's new HREP manager. Hubbell recognized Powell as an integral part of the EMP's success. Barb Naramore expressed the states' appreciation for Powell's leadership, creativity, and commitment to finding solutions since the EMP's inception in 1986. Gretchen Benjamin described Powell as key to the EMP's visibility and viability, noting that he is held in the greatest esteem by those in Wisconsin DNR. Tim Schlagenhaft expressed appreciation for Powell's commitment to involving all partners in the program.

Powell reported that MVP is continuing efforts on the Pool 8 Islands project, with Phase III Stage 2A slated for completion later this month. He added that MVP would like to complete Stage 2B this year, but that work (i.e., placing fill for islands) is not scheduled. The District recently awarded the dredging contract for Clear Lake, to create additional deep water habitat for fish in the Finger Lakes complex. The contract came in below MVP's pre-award cost estimate. DPRs are being completed for Capoli and Harpers Sloughs in Pool 9. MVP is also finishing a mussel survey draft report.

Brian Markert explained that MVS has reallocated funds freed up due to flood-related delays and is putting that money toward the previously reported repairs on completed work needed at Batchtown. As a result, MVS is no longer facing the HREP funding shortfall it had anticipated during FY 08. Planning work continues for Pools 25/26 and Ted Shanks.

HREP Showcase — Lake Odessa

Marv Hubbell explained that the Lake Odessa HREP is in a 6,788-acre site located at the confluence of the Iowa and Mississippi Rivers and spanning Pools 17 and 18. It has been actively managed for wildlife since the mid 1950s, primarily through water level control structures. Currently, Lake Odessa is managed by USFWS and Iowa DNR. A primary issue for waterfowl management has been levee overtopping and breaks that compromise the capability to effectively control water levels, as well as sedimentation from frequent flooding events. High sediment loads and flows from the Iowa River pose a major challenge in the project area.

The HREP project includes construction of perimeter levees in order to decrease sedimentation, reduce flood damage by equalizing pressure on the levee sides, and enhance the overall ecosystem quality. Dredging in the project area has been used to improve depths and contribute materials for the levee work. Since the project is on General Plan lands, the project is 100 percent federally funded. The estimated cost is approximately \$11-13 million.

Project goals are to reduce forest fragmentation, increase bottomland hardwood diversity, enhance migratory bird habitat, restore sand prairie, increase habitat for overwintering fish, provide safe areas for “developing” fish, protect habitat features, and protect archeological sites. More specifically, Roger Perk added that restoration of the perimeter levees and construction of a spillway and wing dams are intended to reduce damages from floods by 1) allowing flood waters to fill the refuge before overtopping the levee, and 2) controlling the rate at which water flows from the site as floods recede.

Hubbell noted that the Iowa River carries high sediment loads and adds significant hydraulic complexity to the project area. He emphasized that open communication between land managers, biologists, and engineers has been a key component of the Lake Odessa project. According to Hubbell, the project’s effectiveness was demonstrated during the 2008 floods. Damages from the May flooding were largely restricted to places that had not yet been addressed under the project. However, the second flooding event caused moderate damage to numerous portions of the exterior levee. As mentioned previously, the Corps has received \$5 million in emergency flood assistance for repairs at Lake Odessa.

Due to the flood damages, project construction has been delayed while the Corps assesses damages, meets with the project sponsors to re-evaluate how to better manage outflows, and estimates repair costs. Options for managing outflows may include armoring exit points along the levee to protect cultural resource sites and mixing sand with fines to promote vegetation.

Charlie Wooley highlighted the impressive working relationships among the agencies and disciplines that he observed during his recent visit to the Port Louisa National Wildlife Refuge.

Long Term Resource Monitoring Program

FY 08 Program Update

Mike Jawson noted that the LTRMP field stations received the Department of the Interior’s Customer Service Excellence Award. The award was presented at the field stations’ June meeting in Muscatine. Jennie Sauer said the award recognizes the many ways field station staff do outreach efforts.

Jawson reported that the LTRMP products highlights for the 3rd quarter of FY 08 include the following two recently released APE completion reports:

- Efforts Toward Using Submersed Aquatic Vegetation Data as a Bioindicator for the Upper Mississippi River, and
- Application of Wind Fetch and Wave Models for Habitat Rehabilitation and Enhancement Projects.

In an effort to increase the usability of completion reports that are typically fairly technical and dense, Jawson proposed LTRMP create one-page fact sheets that highlight major findings to better inform the public and managers. He noted that the Missouri field station staff already prepare summaries for their completion reports. Martin Konrad expressed support for the idea. Jawson said he also supports the idea, but noted that it would require some extra time by the investigators. However, based on Missouri’s experience, Jawson said he does not anticipate the additional time required would be significant.

Jawson introduced Nathan DeJager, who was recently hired as LTRMP's Landscape Ecologist. DeJager encouraged program partners to communicate with him regarding their priorities for analyses.

Jawson updated the status of the APE proposals. The call for Letters of Intent went out in late May, and the submission deadline for those letters was in mid-July. UMESC received 27 Letters of Intent. USGS, USACE, and the A-Team are currently in the process of selecting those letters for which full proposals will be invited. The proposals will be due in October.

Pending Information Access and Issues

Sauer reviewed the existing methods of accessing LTRMP information, and outlined the following enhancement options:

- Distribute completion reports electronically within the partnership.
- Put completion report titles and abstracts from 2006 to the present on the web.
- Assess historical completion reports, with the potential of adding titles and abstracts on-line.
- Compile and place online the UMRS science questions that were developed from the science planning effort in 2003 and the FY 07 and FY 08-09 APE Focus Areas. A hardcopy of this information was distributed to meeting participants.
- Develop and maintain a research focus area matrix that lists the APE projects, their focus area, and product type and status. A draft matrix was distributed to meeting participants. The matrix will be posted online.
- Develop and distribute APE fact sheets.

Sauer noted that Outcome 4 in the FY 10-14 LTRMP Strategic Plan addresses the need to provide decision makers with targeted, easily accessible, and usable information regarding the UMRS ecosystem.

Tim Schlagenhaft expressed his appreciation for the efforts put forth by USGS. Gretchen Benjamin concurred, and recommended also developing a record of questions posed in APE proposals that were deferred or dismissed. Jawson noted that the Component Specialists receive frequent queries, and asked whether posting these questions and the specialists' responses would be helpful. Benjamin encouraged development of such a database, which she said would help avoid expending program resources on duplicative queries over time.

Janet Sternburg asked whether there will be a mechanism for releasing completion reports that are not developed into manuscripts. Barry Johnson added that less than 50 percent of completion reports are accepted for journal publication. Jawson and Sauer explained that there may be copyright issues, and said the author(s) would need to approve broader release. Barb Naramore suggested creating a centralized point of access, rather than listing contact information for each individual author. This would enhance customer service and reduce the burden on authors, while ensuring that any issues surrounding release of a particular report are addressed by the program and the author(s). Sauer said UMESC is working to develop such a system.

A-Team Report

Sternburg reported on the A-Team's conference call on August 1, 2008. The Team's recent efforts include:

- Working with USACE and USGS to select the APE Letters of Intent for which to invite full proposals.
- Planning for a discussion of biological indicators at the Team's October 2008 meeting. This will include a presentation on a fish indicators proposal by Gregg Sass.

In response to a question from Benjamin, Sternburg said the A-Team intends to include people who have been working on EMAP in its discussions. Schlagenhaft said the Lake Pepin TMDL is incorporating biological indicators and suggested the October meeting have a broader scope. Sternburg acknowledged the multiple contexts in which indicators are being discussed, but said the A-Team is limited in what it can do in terms of coordination prior to October. Walt Popp asked Sternburg whether the A-Team's approach will be at a systemic level or more specific. Sternburg replied that the A-Team will need to discuss this further and make sure other efforts are engaged. Schlagenhaft suggested discussing the coordination of various work being done on biological indicators during the Joint Session meeting.

APE Project Showcase — Approaches to Analyses of LTRMP Data

Barry Johnson presented an overview of the LTRMP monitoring data and the types of statistical analyses it will support. According to Johnson, the observational monitoring data can be used to assess trends, cycles, status, correlations among variables, and comparisons among areas. They also have utility in generating hypotheses, providing baseline data, revealing seasonal dynamics, documenting occurrence and distribution, contributing to Clean Water Act assessments, assessing the effectiveness of methods, exploring the effect of certain management actions, and modeling and assessing indices of biological integrity.

However, Johnson emphasized that determining cause and effect typically requires a focused study, with additional experimentation and sampling. Johnson described the need to balance focused research (e.g., small scale experiments and evaluation of management actions) with annual monitoring to address a broad array of questions, including unknown future questions. He added that development of an operational plan for FY 10-14 presents an opportunity to identify the analyses the partnership wants done and determine what data are needed to support those analyses.

Draft Bathymetry Acquisition Plan Update

Karen Hagerty gave an update on the status of the Draft Bathymetric Acquisition Plan, under which a system-wide coverage would be completed. The plan will include the current coverage status, priority areas for data collection, data standards, acquisition plans, and estimated funding requirements. Hagerty also briefly reviewed the status of bathymetric data on the UMRS, some of which is currently served on the UMESC web site. Hagerty said she hopes to have a draft plan available to discuss at the EMP-CC's November 2008 meeting.

Sternburg asked what funding sources have supported the bathymetric data collection to-date. Hagerty explained that NESP paid for Pool 18, Section 519 funded Starved Rock, and the Corps' O&M program has funded a considerable portion of the currently available data. Hagerty explained that the remaining cost to EMP depends in part on how quickly the partners want the systemic coverage completed, noting that, eventually, other programs will likely gather the remaining data.

FY 10-14 LTRMP Strategic Plan

Hubbell, Jawson, and Naramore acknowledged the efforts of the EMP-CC and the Strategic Planning Team and described process of developing the draft FY 10-14 LTRMP Strategic Plan as productive, and inclusive. Hubbell emphasized that the Strategic Plan presents an important opportunity to be forward-looking while building off of the program's history.

Hubbell conveyed the Strategic Planning Team's unanimous recommendation that the EMP-CC endorse the Strategic Plan, with the understanding that an operational plan for the same 5-year period remains to be developed. Schlagenhaft moved and Benjamin seconded a motion for the EMP-CC to endorse the FY 10-14 LTRMP Strategic Plan, as well as the development of a follow-on operational plan. The motion carried unanimously.

LTRMP Operational Plan

Hubbell explained that an operational plan will link the Strategic Plan with LTRMP annual work plans. A small work group will be tasked with scoping and drafting a plan for review by the full Strategic Planning Team. The process of developing an operational plan will begin in October 2008, with a target of having the plan ready for the EMP-CC's consideration at its May 2009 meeting. Hubbell anticipates it will require a three meeting sequence.

Jawson said much of the operational planning process will revolve around determining relative priorities under different funding scenarios. Possible differences in these priorities depending on which program (i.e., NESP or EMP) the LTRMP is operating under will also need to be considered, according to Jawson. He emphasized the operational plan's utility in guiding decisions about the allocation of annual appropriations in FY 10-14.

Other Business

Barb Naramore announced that the upcoming quarterly meetings are scheduled as follows:

- **November 2008 – Quad Cities**
 - UMRBA — November 18
 - NECC/ECC — November 19
 - **Joint EMP-CC and NECC — afternoon of November 19**
 - **EMP-CC — November 20**

- **February 2009 – St. Louis**
 - UMRBA — February 17
 - **EMP-CC — February 18**
 - **Joint EMP-CC and RAP (or NECC) — afternoon of February 18** (if needed)
 - RAP (or NECC/ECC) — February 19

- **May 2009 – St. Paul**
 - UMRBA — May 19
 - RAP (or NECC/ECC) — May 20
 - **Joint EMP-CC and RAP (or NECC) — afternoon of May 20** (if needed)
 - **EMP-CC — May 21**

With no further business, the meeting adjourned at 11:45 p.m.

**EMP-CC Attendance List
August 6, 2008**

EMP-CC Members

Charles Barton	U.S. Army Corps of Engineers, MVD
Charlie Wooley	U.S. Fish and Wildlife Service, Region 3
Mike Jawson	U.S. Geological Survey, UMESC
Rick Mollahan	Illinois Department of Natural Resources
Martin Konrad	Iowa Department of Natural Resources
Tim Schlagenhaft	Minnesota Department of Natural Resources
Janet Sternburg	Missouri Department of Conservation
Gretchen Benjamin	Wisconsin Department of Natural Resources
Bill Franz	U.S. Environmental Protection Agency

Others in Attendance

Terry Smith	U.S. Army Corps of Engineers, MVD
Terry Birkenstock	U.S. Army Corps of Engineers, MVP
Don Powell	U.S. Army Corps of Engineers, MVP
Jeff DeZellar	U.S. Army Corps of Engineers, MVP
Rebecca S. Soileau	U.S. Army Corps of Engineers, MVP
Gary Meden	U.S. Army Corps of Engineers, MVR
Roger Perk	U.S. Army Corps of Engineers, MVR
Marvin Hubbell	U.S. Army Corps of Engineers, MVR
Ken Barr	U.S. Army Corps of Engineers, MVR
Karen Hagerty	U.S. Army Corps of Engineers, MVR
Brian Markert	U.S. Army Corps of Engineers, MVS
Gary Wege	U.S. Fish and Wildlife Service
Loyd Mitchell	U.S. Fish and Wildlife Service, Region 3
Jon Duyvejonck	U.S. Fish and Wildlife Service, RIFO
Don Hultman	U.S. Fish and Wildlife Service, UMR Refuge
Rick Frietsche	U.S. Fish and Wildlife Service, UMR Refuge
Sharonne Baylor	U.S. Fish and Wildlife Service, UMR Refuge
Scott Yess	U.S. Fish and Wildlife Service, UMRCC
Barry Johnson	U.S. Geological Survey, UMESC
Nathan DeJager	U.S. Geological Survey, UMESC
Bernard Schonhoff	Iowa Department of Natural Resources
John Fleig	Iowa Department of Transportation
Mike Wells	Missouri Department of Natural Resources
Dru Buntin	Missouri Department of Natural Resources
Walt Popp	Minnesota Department of Natural Resources
Jim Fischer	Wisconsin Department of Natural Resources
Terry Dukerschein	Wisconsin Department of Natural Resources
Marc Miller	Illinois Lieutenant Governor's Office
John Barko	NESP Science Panel Chair
Tom Boland	MACTEC
Max Starbuck	National Corn Growers Association
Vince Shay	The Nature Conservancy
Gabe Horner	The Nature Conservancy
Doug Blodgett	The Nature Conservancy
Brad Walker	Prairie Rivers Network
Christine Favilla	Sierra Club - Illinois
Barb Naramore	Upper Mississippi River Basin Association
Dave Hokanson	Upper Mississippi River Basin Association
Kirsten Mickelsen	Upper Mississippi River Basin Association