UPPER MISSISSIPPI RIVER RESTORATION
HREP Team Meeting
Monitoring Breakout Session

Monitoring Report Out Form
Cover Sheet

Complete one cover sheet form per table.

Table Topic:	Water Quality

Table Participants	**Role**
1. Shawn Giblin	Facilitator
2. Kathi Jo Jankowski	Scribe
3. Nicole Manasco	Note-Taker
4. Shawn Giblin	Reporter
5. Alecia Keeny - USFWS	
6. Dave Bierman - IA DNR	
7. Jessie S - USACE	
8. Dave Bierl - USACE	

Jim Fisher - WIDNR
Julie Millholin - USACE

Note - 90%+ of discussion focused on HREP WQ rather than LTRM

Water Quality

Dave Bierman - IA
Shawn Giblin - WI
Kathi Jo - USGS
Alecia Lanry - USFWS
~~Dave Bier~~
Julie Millhollin -
Jim Fisher -

UPPER MISSISSIPPI RIVER RESTORATION

HREP Team Meeting

Monitoring Breakout Session

Monitoring Report Out Form

Complete one Report Out Form for each Discussion Question discussed at your table.

Table Topic: Water Quality

Facilitator: Shawn Giblin

Discussion Question:

What are we doing well

Findings:

- Base line data
- Spot measurements (DO, Temp, velocity)
- Winter WQ data for (DO, Temp, velocity)
- Pre-Project monitoring (WI + MVR especially) (but non-existent in other areas)
- Long-Term LTRM data sets - ability to compare

Recommendations:

- Continuous monitoring is good - should be expanded
- Need a WQ position in every state (Shawn Giblin's)
- Should be doing more monitoring of fate and transport of nitrogen and phosphorus.
-

UPPER MISSISSIPPI RIVER RESTORATION
HREP Team Meeting
Monitoring Breakout Session

Monitoring Report Out Form

Complete one Report Out Form for each Discussion Question discussed at your table.

Table Topic: Water Quality

Facilitator: Shawn Giblin

Discussion Question:

What Aren't we doing well

Findings:

- Not doing monitoring systemically (not standardized parameters, locations, different by state) & especially for pre-project monitoring
- HREP - patchiness
- Data management / Sharing / systemic data analysis (HREP)
- Pre-project monitoring
- Pre-project monitoring prior to developing fact sheets to identify potential projects.

Recommendations:

- Nutrient monitoring (Nutrient cycling in HREP's)
- Monitor cyanobacteria / duckweed created as a result of those nutrients
- Measure Retention times (water residence time and how it affects water quality).
- measure BOD - O_2 depletion Rates
- Need better pre-project monitoring that is standardized.
- Need to produce concise, readable reports post-project.
- Studies related to Sediment (phosphorus release and oxygen demand of Sediments).
- Need dedicated time to produce reports post-project.
- Need more continuous monitoring pre and post project.
- Know project water residence time under full range of discharge.

UPPER MISSISSIPPI RIVER RESTORATION
HREP Team Meeting
Monitoring Breakout Session

Monitoring Report Out Form

Complete one Report Out Form for each Discussion Question discussed at your table.

Table Topic: Water Quality

Facilitator: Shawn Giblin

Discussion Question:

Things we should start doing?

Findings:

There are many things we should be doing pre and post-monitoring that we are currently not doing.

Recommendations:

- Need to measure relationship between water quality and biological response - including phytoplankton and zooplankton.
- Need to measure oxygen depletion rates of projects.
- Measure Sediment oxygen Demand.
- Measure P release from Sediments.
- Need more standardized pre-project monitoring.
- Need more continuous monitoring - including chlorophyll and nutrients if possible.
- Need to measure water residence time and how this affects water quality.
- Need to produce concise and readable reports post-project.