



Tar Creek and Spring River Plan Presentation

October 9, 2003



US Army Corps
of Engineers
Tulsa District

Miami, Oklahoma and Vicinity

Grand (Neosho) River Basin, Oklahoma and Kansas



Tar Creek and Spring River Watershed Management Plan

Public Meeting
9 October 2003
Miami Civic Center



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Welcome



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Meeting Purpose

- Announce plans for completion of a Watershed Management Plan by August 2004
- Actively involve community and stakeholders in plan development
- Share information as plan is developed



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Meeting Format

- Formal presentation and open house
- Opportunities for questions
 - ◆ Formal presentation- 3 minute questions
 - ◆ Open house- additional questions
 - ◆ Comment forms
- Future meetings



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Watershed Issues



Health Effects



Drainage/
Flooding



Subsidence

Water Quality



Mine Shafts



American Indian
Concerns

Chat Use



Natural
Resource
Damages





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Local Stakeholders

Kansas

Picher

Spring River

Cardin

Tar Creek

Quapaw

Commerce

North Miami

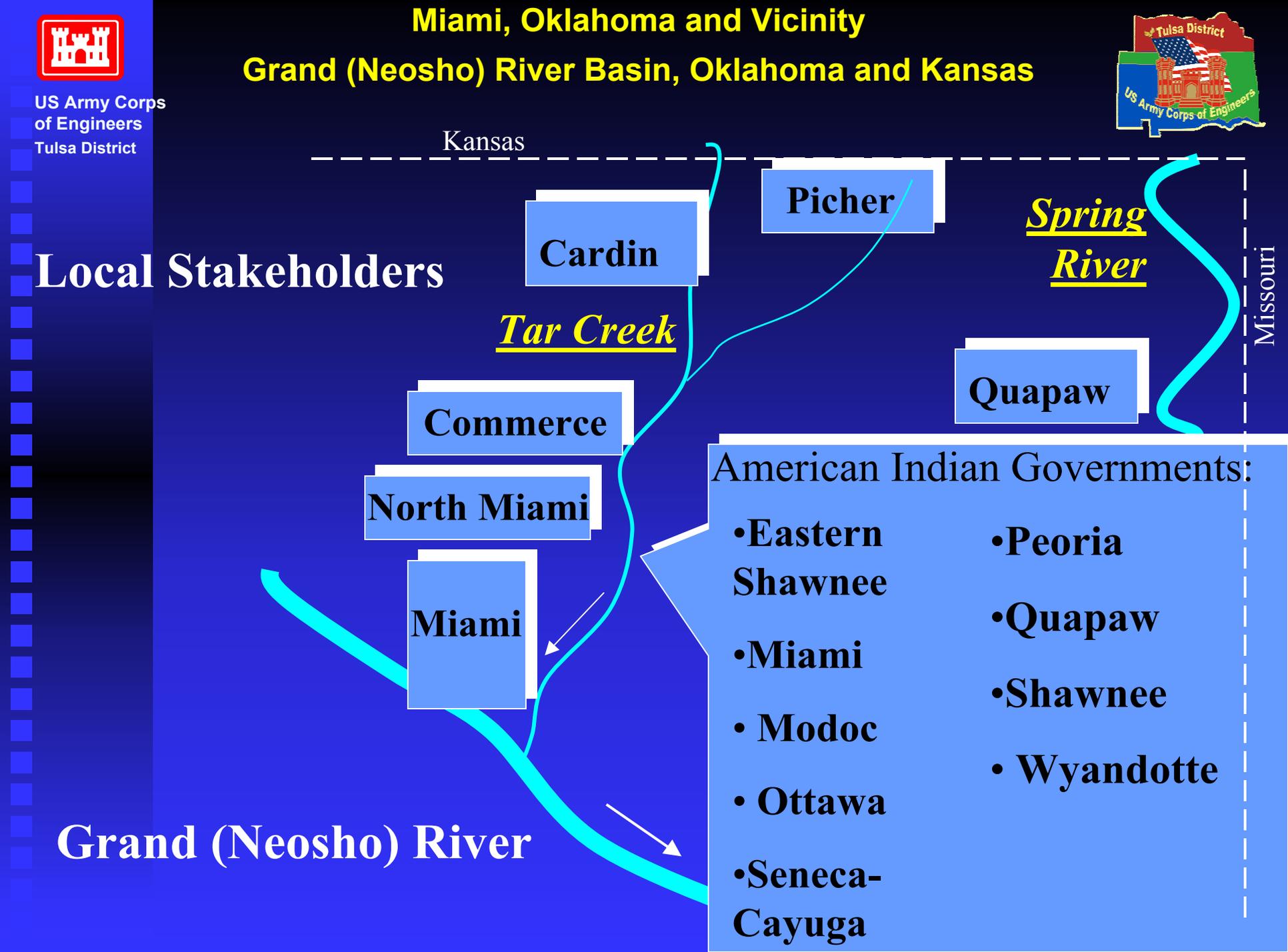
Miami

American Indian Governments:

- Eastern Shawnee
- Miami
- Modoc
- Ottawa
- Seneca-Cayuga
- Peoria
- Quapaw
- Shawnee
- Wyandotte

Missouri

Grand (Neosho) River





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Holistic Response to Issues

- Reconnaissance Phase Plan Development:
 - ◆ Team Approach
 - ◆ Existing Data
 - ◆ Professional Judgment



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May 2003 MEMORANDUM OF UNDERSTANDING



- Facilitate Cooperation Among Federal Agencies
- Work Toward a Holistic Response



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MEMORANDUM OF UNDERSTANDING

- Foster Environmental Improvement and Recovery
- Ensure Protection of Public Health
- Encourage Sustained Economic Stability
- Encourage Tribal, State and Local Government and Community Member Participation



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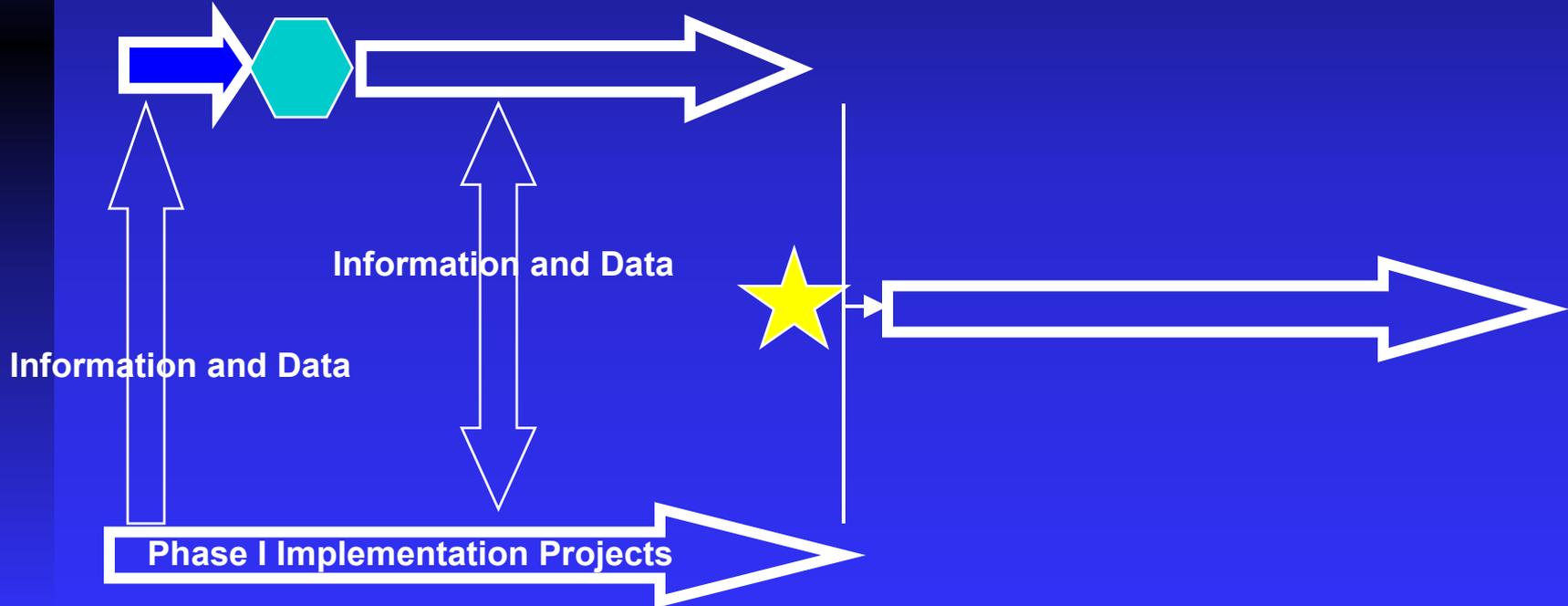


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Watershed Management Plan Development and Implementation





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Guiding Principles

- Address human health and safety needs
- Restore watershed ecosystems
- Identify and compare preliminary alternatives
- Identify favored alternatives for feasibility phase evaluation



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Guiding Principles

- Preliminary alternatives developed engaging stakeholders and interested groups
- All federal, tribal, state and local interests will be full partners



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Guiding Principles

- The watershed management plan will:
 - ◆ serve as a framework for future actions
 - ◆ be a flexible plan recognizing that changes could be made in the future with new information



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Reconnaissance Phase Planning Process Summary



1. Identify problems and opportunities
2. Inventory and forecast conditions
- 3 - 4. Formulate and evaluate alternative plans
5. Compare alternative plans
6. Identify Several Promising Alternatives



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Example Technical Resources Used to Identify and Prioritize Problems and Opportunities

- **Technical Reports such as “Stability Problems Associated with Abandoned Underground Mines in the Picher Field”, by Ken Luza**
- **Information compiled by the Miami, Wyandotte, Seneca-Cayuga, Ottawa, Peoria, and Eastern Shawnee Tribes**



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People are the Key Resources Used to Identify and Prioritize Problems and Opportunities



**Tribal, State, local government officials, and
community members are encouraged to play an
integral part in planning the short- and long-term
solutions**



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What are the Potential Future Possibilities for Tar Creek?





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Example Bureau of Land Management Project at High Ore Creek, Montana



**Tar Creek,
Oklahoma**



Pre-Reclamation - Station 186+00, facing up gradient.

High Ore Creek



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Example Project at High Ore Creek, Montana



**Reclamation - September 1999. Station
186+00, facing up gradient.**



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Example Project at High Ore Creek, Montana



**Post-Reclamation - June, 2000. Station
186+00, facing up gradient**



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Thank You

....Questions?