Developing near-term and long-term solutions for managing impacts of water quality and hydrologic modification on the Miccosukee Federal Indian Reservation

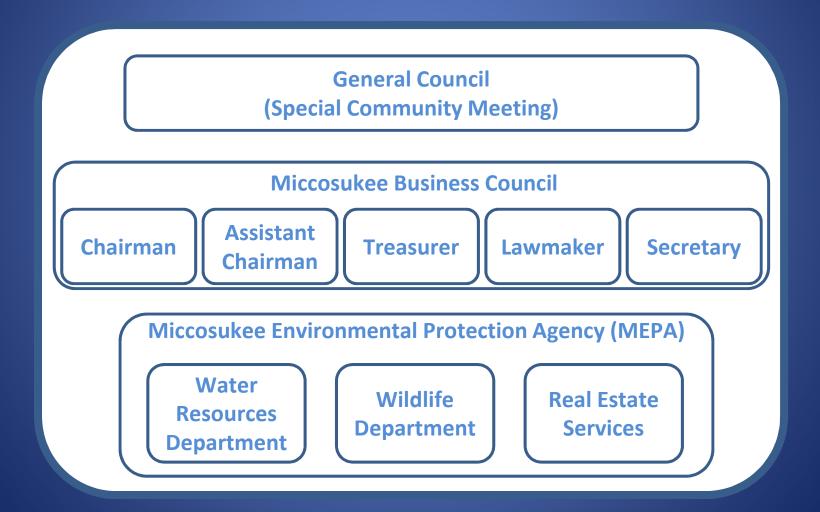
Florida Natural Resource Leadership Institute Graduation Practicum Class XIV April 2015



James M. Erskine Miccosukee Tribe of Indians of Florida Water Resources Department

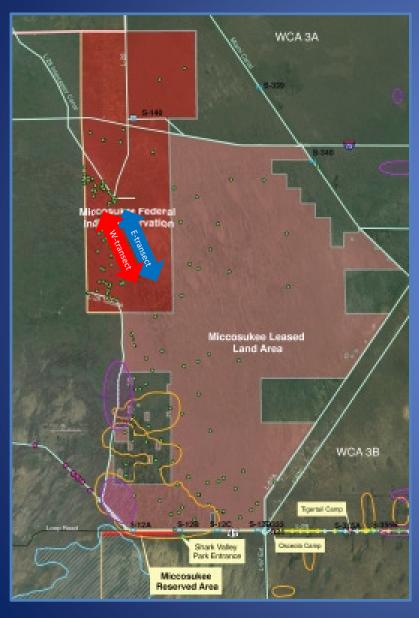
Miccosukee Tribe of Indians of Florida

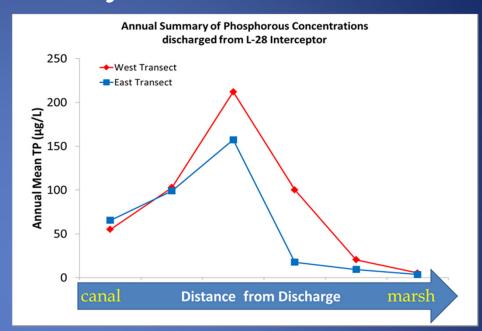
Have lived in the Everglades immemorial and as such have developed a unique Tribal culture and governance.



Step 1: Identify the problem

Brief Water Quality Overview

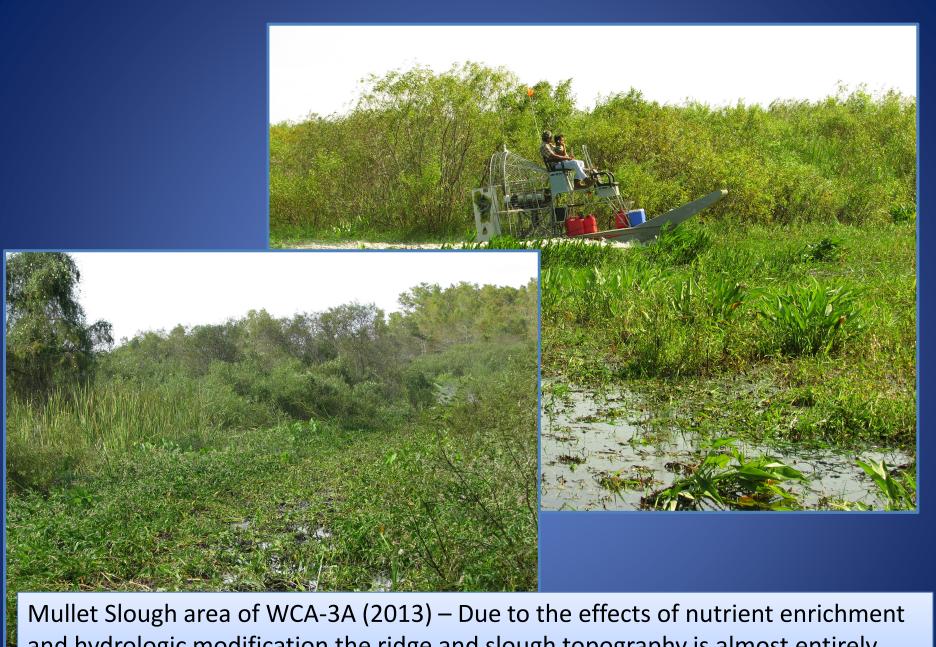




- Canal and levee system has significantly altered hydrology.
- Degradation of unique everglades ecosystem.
- Loss of tree islands
- Loss of ecosystem services







Mullet Slough area of WCA-3A (2013) – Due to the effects of nutrient enrichment and hydrologic modification the ridge and slough topography is almost entirely gone, sloughs and ridges are overgrown with vegetation.

Step 2: Identify stakeholders



Identified Stakeholders

- Miccosukee Tribe of Indians of Florida
- Elected Officials
- Community Members
- Wildlife Department
- Real Estate Services
 Department
- Water Resources Department
- Tribal Housing
- Everglades Study Participants
- Tribal Elders
- Tribal traditional hunters
- Tribal traditional fishermen
- Tribal fisherman
- Traditional camp owners
- Tribal Independents
- Previous McCormacks camp inhabitants (family)
- Miccosukee Cultural Services Department
- Seminole Tribe of Florida
- Seminole Ag/ Cattle

Step 3: Stakeholder engagement



Stakeholder Engagement Multi-Agency Meeting



South Florida Ecosystem Restoration Task Force November, 2014



NRLI Tools:

- Process agenda
- Preparation
- Emphatic listening

Lessons learned

 Emphasized the importance of incorporating the Tribal community in the development of solutions.

Substantive Interests
Procedural interest

Outcomes

Tribal commitment to a participatory public process.

Stakeholder Engagement



Place based information sharing meeting with Miccosukee Indian School, Tribal cultural leaders, community members and Tribal scientists, April 15, 2015.

Reinforced NRLI competency that participation is a learned skill

Stakeholder Analysis Identified

- An overwhelming call for action within the community.
 - Generally, those interviewed felt the more the community is involved in developing a solution the higher the degree of satisfaction.
 - Good support for participatory process.
- Agreement between community members that there should be public meetings on the subject.
 - A substantial amount of community outreach & education will help participation in a public meeting.
 - During interviews individuals were asked how they could contribute at community meeting.
- More community education is needed and Water Resources needs to play a role in educating and engaging the school children.

Stakeholder Analysis Identified

- Solutions involving canal filling and levee re-grading are not widely supported at this time.
 - Climate change models are predicting an increased drought severity & frequency.
 - Data is may not be available to support as the best decision.
 - Ecosystem is dependent on canal until more CERP benefits achieved.
 - Concerns with trespassing levees provide physical barriers.
- Significant fisheries and wildlife concerns.
 - Fisheries quality, quantity, makeup and consumption
 - Endangered species habitat
 - Exotic species flora & fauna

Next Steps

- Define critical questions and identify data needs.
- Continue interviews & community education.
 - Miccosukee Indian School curriculum.
 - Focus on CERP Restoration goals
 - Introduce the principles of a participatory process to reinforce that NRLI competency that participation is a learned skill.
- Hold information & solution oriented community meeting.
- More engagement of non-tribal stakeholders
 - Discussing a focus group with hunting camp lease holders.
- Submit the stakeholder analysis for internal review
- Development of near-term and long-term solutions.

