

# FY17 RSM IPR

## Rock Island District, Sedimentation Impacts at the Confluence of the Sangamon and Illinois Rivers

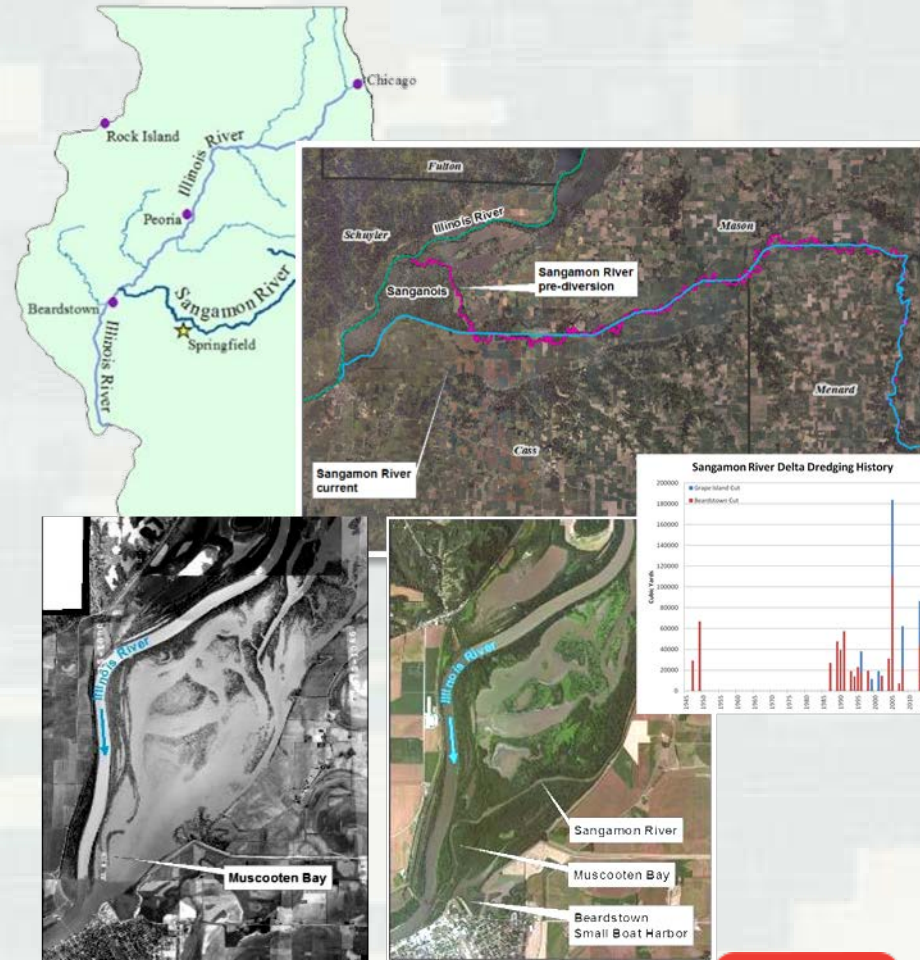
**BLUF:** This effort achieves greater understanding of the consequences of channelization and other land use activities in the Sangamon River watershed and explores opportunities for addressing sediment delivery to the Illinois River.

### Description/Challenges

- Most expensive dredging location in the District
- Historic USACE project changed outlet of River
- Backwater areas of the Illinois have filled in with sediment (also affecting Federal Small Boat Harbor)
- Lack of data
- Lack of regional/political will
- Massive sand stockpiles to offload

### Objectives

- Continue sediment data acquisition and analyses
- Expand collaboration efforts – Gov. conference, continued stakeholder engagement
- Develop beneficial use strategies for sediment
  - IDOT use of sand for new bridge
  - Partnership for soil manufacturing
  - Increase topographic diversity
  - Improve local ag. fields



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## District/Other USACE PDT Members

- Matt Afflerbaugh, Operations
- Jason Appel, Real Estate
- Elizabeth Bruns, Engineering
- Nicole Manasco, Engineering
- Chuck Theiling, Planning

## Stakeholders and Partners

- Illinois State Water Survey
- National Great Rivers Research & Education Center
- Ducks Unlimited
- University of Illinois
- Illinois Department of Natural Resources
- USGS – Illinois Water Science Center
- Local Communities
- Minnesota Soil and Mulch

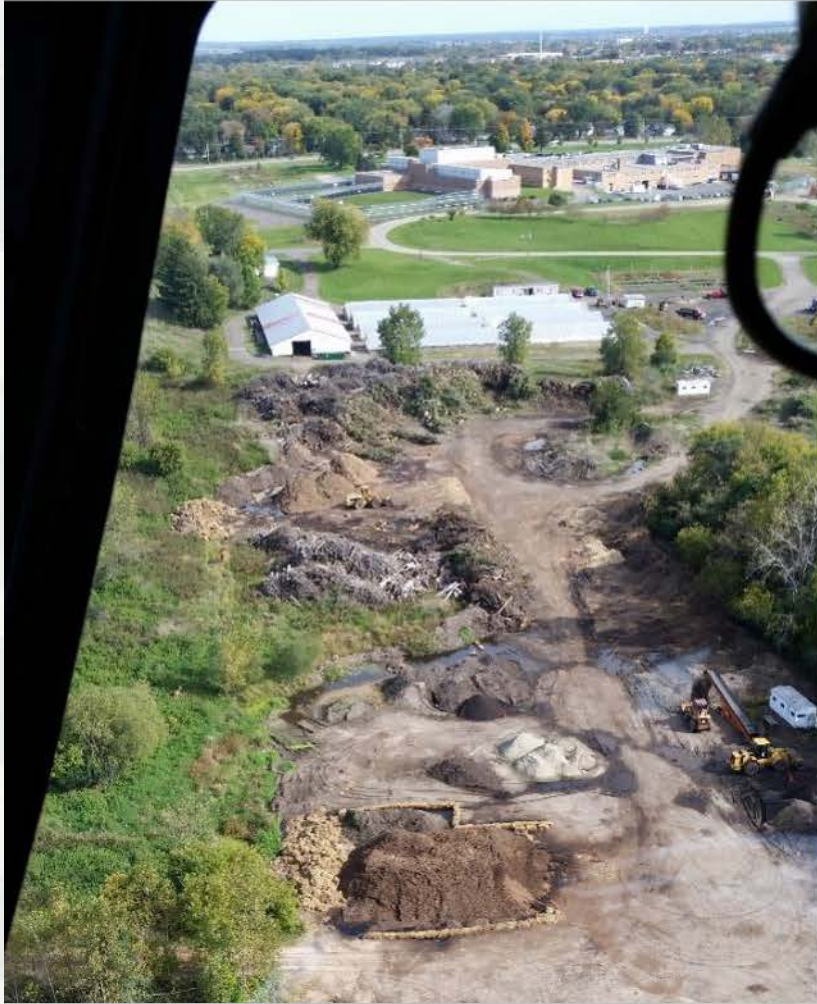
## Leveraging/Collaborative Opportunities

- ISWS – Previous USACE suspended sediment station reopened by state
- NGRREC – Suspended sediment and nutrient monitoring
- USGS – Proposed ADCP Suspended Sediment Station
- PL 84-99 – Borrow site for levee repairs
- ERDC Levee Setback Research Project – Using 2015 Sangamon HEC-RAS model for case study
- 2015 Stakeholder meetings published in USACE “Collaboration Corner”





## Mulch Compost



# Site Operations

## Sand Stockpile and Blending



# Site Operations

Drying fine material



Input stockpiles



Custom soil inventory





# Manufactured Soil

**Minnesota**  
mulch & soil



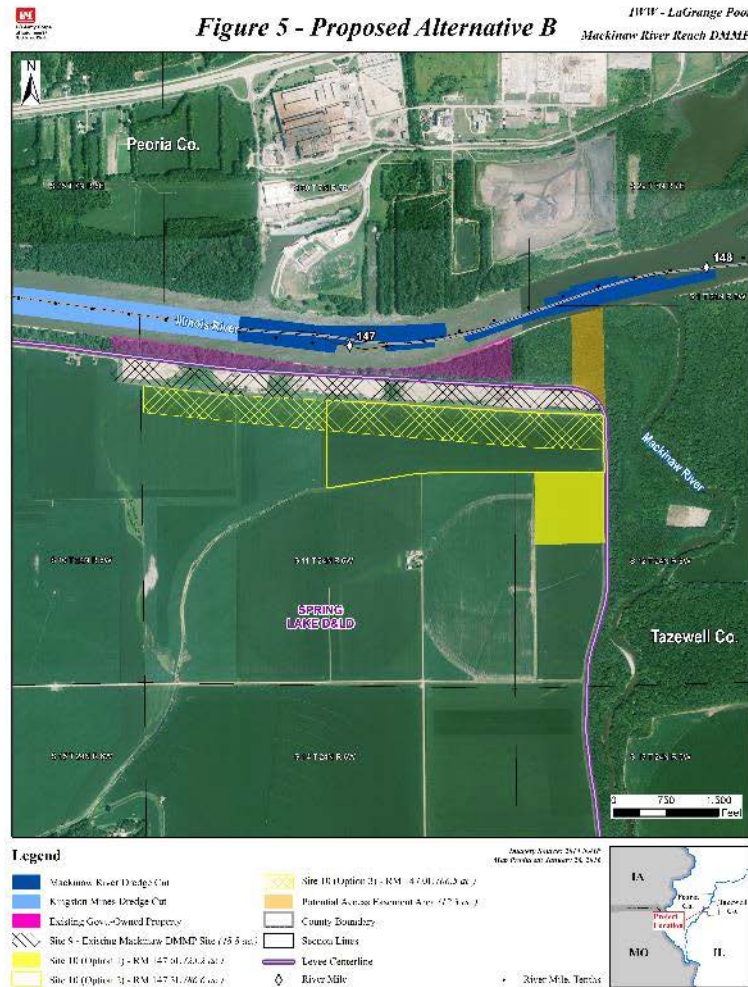
Custom  
blend mixes  
for unique  
applications

## Menu of Materials:

- Peat
- Wood fines
- Black dirt
- Sand
- Manure



# Mackinaw Site Needs Expansion for Placement



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### Deliverables

Article to IL River Governor's Conference	10/29/15
Presentation at the RSM-EWN IPR	5/17/16
Stakeholder Meeting	7/14/16
Meeting Summary from the Stakeholder Meeting	7/31/16
Technical Note – ILWW Sediment Beneficial Use Summary Report from UIUC	Delayed - CESU
Beneficial Use Plan	In Draft



### Lessons Learned

- CESU's are not "EASY BUTTONS"...assume similar to longer time than contracts
- Be willing to be flexible and see new opportunities as they present themselves (our research at Sangamon led us to a potentially different solution for a different reach of the river).

**REPORT OF AVAILABILITY  
PART A-GENERAL**

- Project's Official Name: Illinois Waterway, La Grange Pool (IWWLAG)
- Tract Number(s):
- Type of Outgrant:
 

<input type="checkbox"/> N/A	<input type="checkbox"/> Lease	<input checked="" type="checkbox"/> License
<input type="checkbox"/> Easement	<input type="checkbox"/> Permit	
- Proposed Use:
 

<input type="checkbox"/> Commercial Concession	<input type="checkbox"/> Road
<input type="checkbox"/> Park and Recreation	<input type="checkbox"/> Pipeline
<input type="checkbox"/> Fish and Wildlife	<input checked="" type="checkbox"/> Other (specify)
<input type="checkbox"/> Agricultural and Grazing	
- Recommended Term of Outgrant: 3 - 5 years  
Start Date (if applicable):
- Use Request By:
 

<input type="checkbox"/> Army Element	<input type="checkbox"/> Other Federal Agency
<input checked="" type="checkbox"/> Private Party	<input checked="" type="checkbox"/> Other (specify)
<input type="checkbox"/> Adjoining Grantee	
<input type="checkbox"/> State or Local Government	
- General Property Description/ Characteristics of the Property:
 

Acreage:

Land Character:
- Are Government buildings and improvements included in the area?
 

☐ Yes ☒ No

If yes, give details on buildings and improvements and attach a copy of the floor plan, if available.

Building Identification No:

Square Footage/Percentage of:

Building Outgranted:

Condition of the Facility:
- If building space only and land is not included, explain why the improvement is not excess:
- United States Property Interest:
 

<input checked="" type="checkbox"/> Fee Simple Title	<input type="checkbox"/> Easement	<input type="checkbox"/> Other (specify)
<input type="checkbox"/> In-Lease		
- Army Jurisdiction:
 

<input checked="" type="checkbox"/> Primary Jurisdiction	<input type="checkbox"/> Withdrawn from Public Domain
<input type="checkbox"/> Permit from Other Federal Agency	

Report of Availability/Determination of Availability and Administrative Findings

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# Soil Blending at DMMP Site

- Dredged Material from MVP is being used commercially for MN DOT purposes



## Project Spotlight

**Park Nicollet Frauenshuh Cancer Center  
St. Louis Park, Minnesota**



This project was a win win for all. Minnesota Mulch and Soil reused on-site dredged creek material by mixing it with MM&S special "DSM" compost product. This provided an excellent planting bed medium for the location. Money was saved: no landfill costs, reuse of on-site soils.

**Minnesota**  
mulch & soil

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