



# **MISSOURI DEPARTMENT OF NATURAL RESOURCES**

**Taney County Regional Sewer District  
Regional Biosolids Dewatering and Drying Facility**

**Clean Water State Revolving Fund  
Green Project Reserve  
Business Case**

**State Fiscal Year 2013 Intended Use Plan  
Project Number C295538-01**

**Grant Closing Date: October 2, 2013  
Grant Amount: \$3,000,000  
Green Amount: \$3,000,000**

## I. REGIONAL BIOSOLIDS DEWATERING AND DRYING FACILITIES

### Summary

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- Construction of three dewatering facilities and one regional drying facility to reduce the practice of land applying liquid sludge in the Tri-Lakes Region.
- Total Grant amount = \$3,000,000
- Estimated environmentally innovative (green) portion of grant = 100% (\$3,000,000)

### Background

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The cities of Branson, Hollister, Forsyth, Rockaway Beach, Branson West, and the Taney County Regional Sewer District joined together to reduce or eliminate the practice of land applying liquid biosolids. This project includes constructing a biosolids dewatering and regional biosolids drying facility on the site of Branson's Cooper Creek Wastewater Treatment Facility (WWTF). Biosolids dewatering facilities will be constructed at Hollister's Wastewater Treatment Plant (WWTP) and Branson's Compton Drive WWTP.

Liquid biosolids from wastewater treatment plants are trucked to one of the three treatment plants where the dewatering facility is constructed. The dewatered biosolids are then trucked to Branson's Cooper Creek WWTP to be processed at the drying facility. Dried biosolids are categorized Class A increasing the final disposal or reuse options.

The project will consist of the installation of centrifuges and all necessary appurtenances at Hollister's WWTP and Branson's Compton Drive WWTP. A building addition will be made to the existing Sludge Loading Building at Branson's Cooper Creek WWTF. The completed building will house an indirect drying system, centrifuge, biological odor control equipment, and associated equipment to be installed as part of this project.

### Environmentally Innovative Justification

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- Reduction of the volume of liquid sludge land application in the Tri-Lakes Region
- Energy savings in fuel for hauling a dry compacted material versus a wet sludge
- Finished product will be a categorized Class A biosolid, a high quality organic nitrogen source, reducing total fertilizer need in the area

### Conclusion

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- Per Section 4.5-5(b), "*Treatment technologies or approaches that significantly reduce the volume of residuals, minimize the generation of residuals, or lower the amount of chemicals in the residuals*".

## References

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- Attachment 2. 2012 Clean Water State Revolving Fund 10% Green Project Reserve: Guidance for Determining Project Eligibility.
- HDR Engineering facility plan, “Regional Biosolids Dewatering and Drying Facilities” on behalf of the Taney County Regional Sewer District approved on December 14, 2012.