

# DANE COUNTY

## CAPITAL PROJECTS/EQUIPMENT DETAIL SHEET

1. AGENCY Land & Water Resources	2. ORGANIZATION Land & Water Legacy Fund	3. COMPLETED BY Dave Merritt		4. PHONE 261-9792
5. PROJECT TITLE: Manure Water Treatment System Pilot Project		6. PROJECT NO. 13-696-10		
7. PROJECT/EQUIPMENT DESCRIPTION: (INCLUDE USEFUL LIFE FOR EQUIPMENT) The manure treatment system receives post-solid separation effluent from the Town of Springfield digester and treats and processes the liquid digestate resulting in clean potable water and concentrated liquid nutrients. The process technology employs mechanical and chemical water treatment of the liquid digestate resulting in the extraction and concentration of the available nutrients (phosphorus, nitrogen and potassium) into useful by-products for the farm operation. The total project costs are estimated to be \$850,000. The county will seek partners to share the cost of this pilot project		8. PROJECT TIMING		
			ESTIMATED DATE BEGIN	ESTIMATED DATE END
		ARCHITECTURAL SERVICES		
		PLANNING & DESIGN	Jan-13	Mar-13
		PROPERTY ACQUISITION		
		DEMOLITION & SITE PREPARATION		
		CONSTRUCTION MANAGEMENT SERVICES		
		CONSTRUCTION	Apr-13	Dec-13
		TELECOMMUNICATIONS		
OFFICE FURNITURE/EQUIPMENT				
E.D.P. EQUIPMENT				
PROJECT OPENING				
9. PROJECT JUSTIFICATION: The project will continue and strengthen the water quality function of the Land & Water Legacy program. The nutrient concentration system to be added to the digester effectively controls 100% of the phosphorus from the dairy manure compared to 60% phosphorus removal from the current technology in use at the Waunakee digester. Additional phosphorus reductions from dairy operations throughout the Yahara Watershed will enhance Dane County's efforts to limit phosphorus run-off resulting in less algae growth and cleaner lakes and streams.	CAPITAL EQUIPMENT ACQUISITION			
	LOCATION:			

10. PROJECT FINANCING SUMMARY	Prior Years	2013	2014	2015	2016	2017	2018 - 2022	Total
A. BEGINNING CASH BALANCE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>B. PROJECT EXPENDITURES *</b>								
PLANNING & DESIGN	\$0							\$0
ARCHITECTURAL SERVICES	\$0							\$0
PROPERTY ACQUISITION	\$0							\$0
DEMOLITION AND SITE PREPARATION	\$0							\$0
CONSTRUCTION MANAGEMENT SERVICES	\$0							\$0
CONSTRUCTION	\$0	\$300,000						\$300,000
PUBLIC WORKS PROJECT OVERSIGHT CHARGES	\$0							\$0
TELECOMMUNICATIONS	\$0							\$0
OFFICE FURNITURE/EQUIPMENT	\$0							\$0
CONTINGENCY	\$0							\$0
CAPITAL EQUIPMENT PURCHASE	\$0							\$0
TOTAL EXPENDITURES	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000
<b>C. PROJECT FUNDING *</b>								
PROPERTY TAX	\$0							\$0
DEBT	\$0	\$300,000						\$300,000
FEDERAL	\$0							\$0
STATE	\$0							\$0
OTHER	\$0							\$0
INTEREST EARNINGS	\$0							\$0
TOTAL FUNDING	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000
D. ENDING CASH BALANCE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

<b>E. ESTIMATED ANNUAL OPERATING COSTS</b>								
PERSONAL SERVICES		\$0	\$0	\$0	\$0	\$0	\$0	
OTHER OPERATING COSTS		\$0	\$0	\$0	\$0	\$0	\$0	
TOTAL ANNUAL OPERATING COSTS		\$0	\$0	\$0	\$0	\$0	\$0	