

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: GLRI_37714856

Name: Water Quality Subsurface Gravel Wetland: Green Tree Basin (MKE)

Type: Great Lakes Restoration Initiative

Subtype: Nearshore Health and NPS

Status: ACTIVE

Start Date: 10/01/2010

End Date: 12/31/2099

Purpose: To arrest the negative impacts of nonpoint source pollution, the Milwaukee Metropolitan Sewerage District seeks to innovate a subsurface gravel wetland that holds rainwater where it falls, infiltrates and filters it, absorbs it through plant root systems, and evapotranspires it to the atmosphere. Through this project, the Sewerage District will implement this innovative infrastructure measure in the Green Tree Basin on Lincoln Creek, a tributary of the Milwaukee River, to address six beneficial use impairments in the Milwaukee Estuary Area of Concern.

Objective: Address key features:
Subsurface gravel wetlands have been demonstrated to reduce fecal coliform, total suspended solids and phosphorus (among other pollutant levels) in other parts of the country but have not yet been innovated in clay soils of the Greater Milwaukee Watersheds to MMSD's knowledge.

Preexisting MMSD ownership and control of the property eliminates otherwise time-consuming site acquisition and permission issues.

Historical pre-construction in-stream Lincoln Creek monitoring at a point downstream from the proposed project provides a ready-made site at which to also monitor and compare post-construction conditions.

This innovative environmental approach has been proven elsewhere to work in cold climates even in wintertime, and therefore may provide greater year-round benefits than other innovative environmental approaches.

Comments: \$200,000

Outcome: The expected results of the proposed project include providing region-specific recommendations for the implementation of a subsurface gravel wetland based on the measured water quality enhancements, improvement of habitat, and regional cooperation to benefit the Milwaukee Estuary AOC and Lake Michigan

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Sands, Karen	PROJECT_LEAD	ACTIVE	10/01/2010	12/31/2099	Milwaukee MSD	

Project Statuses

Date	Reported By	Status	Comments
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Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):	
2. Amount expended this reporting period:	
3. Subcontracts or subgrants awarded this reporting period:	
4. QAPP (Project Plan) status:	
5. Local services and/or products purchased this reporting period:	
6. Number of jobs created this reporting period:	
7. Work accomplished this reporting period:	
8. Work goals for coming reporting period:	

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Question	Answer
1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept):	
2. Quality Documentation status (respond NA if not required):	
3. Describe work performed during this reporting period relating to the activities from the grant workplan (Previous 6 months):	
4. GLRI Action Plan metric(s) accomplished and numerical progress during this reporting period:	
5. GLRI Action Plan metric(s) accomplished and numerical progress since project start (total complete to date):	
6. Percentage (estimate) of project work completed during this reporting period:	
7. Percentage (estimate) of project work completed since the project start (total complete to date):	
8. Is project work on schedule? If no, please explain.	
9. If a problem was encountered, describe the problem and action(s) taken to correct it.	
10. What work is projected during the next reporting period? (Next 6 months):	
11. Will the project take longer than the approved project period? If so, have you requested an extension in writing to the grant coordinator?	
12. Amount expended this reporting period (can be approximate) If no amount expended, explain why.	
13. Is project invoicing/expenditures up to date? If invoicing is more than 3 months overdue, explain why.	
14. Were any significant changes (>10% of the total project amount) made to the project budget? If so, have you notified the grant coordinator in writing?	

Actions

Action	Detailed Description	Start	End Date	Status
Stormwater Planning, Implementation	To arrest the negative impacts of nonpoint source pollution, the Milwaukee Metropolitan Sewerage District seeks to innovate a subsurface gravel wetland that holds rainwater where it falls, infiltrates and filters it, absorbs it through plant root systems, and evapotranspires it to the atmosphere. Through this project, the Sewerage District will implement this innovative infrastructure measure in the Green Tree Basin on Lincoln Creek, a tributary of the Milwaukee River, to address six beneficial use impairments in the Milwaukee Estuary Area of Concern.	10/01/2010	12/31/2099	PROPOSED
Details:	Parameter	Value/Amount	Units	Comments
	% storm water runoff reduced			

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
19400	1	Lincoln Creek	Lincoln Creek

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Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
Water Quality Subsurface Gravel Wetland: Green Tree Basin (MKE),GLRI proposal, Sands		Sands, Karen	02/03/2011	

Budget

Combined Budgets:
Combined SLOH:
Combined Total:

Funding

Organization	Source	Type	Amount	Start Date	End Date
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