

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: WCR_02_CMP12 ATTAINS
Name: Big Eau Pleine River (1427200) Volunteer Monitoring
Type: TMDL/303d Projects
Subtype: Refine Load Estimates
Status: COMPLETE
Start Date: 07/01/2011
End Date: 06/30/2012
Purpose: The Big Eau Pleine Flowage (wbic 1427200) is listed on the Federal 303 (d) list for violations of the State dissolved oxygen and pH water quality standards. The Big Eau Pleine River is also on the list for dissolved oxygen levels below the water quality standard. Both listings are a result of excessive nutrient loading, primarily phosphorus, to the river and flowage. The Department started a multi-year water quality study in 2009 to develop a TMDL for the river and flowage. The study will be completed in conjunction with Wisconsin Valley Improvement Company's (WVIC) three year flowage monitoring plan mandated in their FERC license. WVIC will begin their flowage monitoring in 2010 and continue through 2012. The Big Eau Pleine River at STH 97 has been sampled monthly for nutrients and solids since 2005 as part of baseline Tier I wadable stream monitoring and special project 303 d monitoring.

TMDL monitoring started in October 2009 with bi weekly tributary sampling completed by the Department and an advanced volunteer monitor. TMDL monitoring will continue through September 2012.

This project would provide funding for water chemistry analysis at the SLOH and travel expenses for a volunteer monitor.

Objective: The objective of this project is to provide multiple years of sediment and nutrient data to be used for the development of a TMDL for the BEP watershed. The data will be collected over multiple years by combining monitoring efforts of WVIC, a volunteer monitor and DNR. Specifically, the project will provide multiple years of monthly tributary monitoring along with streamflow (already monitored by USGS) to provide more accurate loading estimates from the watershed. The project request will be used to pay the cost of sample analysis, postage and volunteer travel.

This project was approved for FY10 and FY 11 and funding is needed for FY12 and FY 13 to complete the study as planned.

Comments: Project Category 2: 303(d) Impaired Waters List
 Project Category 3: Continuation of FY2007 Special Projects
 THIS PROJECT IS FUNDED BY THE CBSM PROGRAM.

Outcome: The Department would like to obtain FY 12 funding (July 2011 through June 2012) for water chemistry analysis at the SLOH and volunteer travel expenses. Additional funding for FY13 (July 2012 through September 2012) will be requested to complete the final three months of monitoring.

A volunteer has collected monthly samples since July 2007 and the continuation of monthly sampling through September 2012 will provide multiple years of loading data from three tributaries to the Big Eau Pleine Reservoir. Monthly water chemistry samples will be analyzed for suspended solids, total phosphorus and dissolved phosphorus. In addition to the water chemistry samples, field parameters of dissolved oxygen, temperature, pH and turbidity tube measurements will be collected during each visit.

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
HAZUGA, MARK J	COORDINATOR	COMPLETE	12/20/2010		Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
01/28/2011	MOLLI MACDONALD	Proposed	
01/23/2012	MARK HAZUGA	Progress: 25-50% Complete	Volunteer stream monitoring continues on the Big Eau Pleine TMDL. Monthly samples from three tributaries have been collected since the start of the fiscal year. Sampling will continue until the end of June 2012. A new special project will be submitted to continue the sampling into the next fiscal year. All data has been captured in SWIMS.

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Date	Reported By	Status	Comments
09/28/2012	MARK HAZUGA	Progress: 75-100% Complete	All monitoring for Big Eau Pleine TMDL was completed for FY12
01/30/2013	MARK HAZUGA	Complete	All data is collected and entered in SWIMS

Actions

Action	Detailed Description	Start	End Date	Status
TMDL Development	The Big Eau Pleine Flowage (wbic 1427200) is listed on the Federal 303 (d) list for violations of the State dissolved oxygen and pH water quality standards. The Big Eau Pleine River is also on the list for dissolved oxygen levels below the water quality standard. Both listings are a result of excessive nutrient loading, primarily phosphorus, to the river and flowage. The Department started a multi-year water quality study in 2009 to develop a TMDL for the river and flowage.	07/01/2010	06/30/2011	PROPOSED
Citizen-Based Stream Monitoring	Collect chemical, physical, and/or biological water quality data to assess the current overall stream health. The data can inform management decisions and may be used to identify impaired waters for biennial lists.	07/01/2010	06/30/2011	PROPOSED

Monitoring Stations

Station ID	Name	Comments
10007758	Big Eau Pleine Reservoir - Main Channel River Mile 3	
373325	Big Eau Pleine River at Sth 97 Bridge	
373366	Fenwood Creek at Hwy 153	
373411	Freeman Creek at Sugar Bush Rd	
10040292	Unnamed creek 1684700 at Private Drive	

Assessment Units

WBIC	Segment	Local Name	Official Name
1427200	4	Big Eau Pleine River	Big Eau Pleine River
1427400	1	Big Eau Pleine Flowage	Big Eau Pleine Reservoir
1427400	2	Big Eau Pleine Reservoir	Big Eau Pleine Reservoir
1427700	1	Freeman Creek	Freeman Creek
1427700	2	Freeman Creek	Freeman Creek
1428700	1	Fenwood Creek	Fenwood Creek
1428700	2	Fenwood Creek	Fenwood Creek
1684700	1	Creek 9-13	Unnamed

Lab Account Codes

Account Code	Description	Start Date	End Date
WT134	CITIZEN RIVER MONITORING	06/01/2011	06/30/2012

Forms

Form Code	Form Name
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Methods

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Method Code**Description****Fieldwork Events**

Start Date	Status	Field ID	Station ID	Station Name
07/26/2011 07:45	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
07/26/2011 08:10	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
07/26/2011 08:30	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
08/30/2011 07:00	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
08/30/2011 07:20	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
08/30/2011 07:45	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
09/28/2011 10:20	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
09/28/2011 10:45	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
09/28/2011 11:00	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
10/24/2011 10:30	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
10/24/2011 10:45	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
10/24/2011 11:10	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
11/30/2011	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
11/30/2011	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
11/30/2011	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
12/27/2011 10:36	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
12/27/2011 10:46	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
12/27/2011 11:00	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
02/07/2012 08:00	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
02/07/2012 08:20	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
02/07/2012 08:35	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
02/28/2012 07:25	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
02/28/2012 07:45	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
02/28/2012 08:00	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
03/27/2012 07:30	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
03/27/2012 07:50	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
03/27/2012 08:20	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
04/24/2012 07:40	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
04/24/2012 07:55	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
04/24/2012 08:15	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
05/30/2012 07:30	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
05/30/2012 07:50	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
05/30/2012 08:15	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
06/25/2012 11:42	COMPLETE	BEP	373325	Big Eau Pleine River at Sth 97 Bridge
06/25/2012 12:20	COMPLETE	FEN	373366	Fenwood Creek at Hwy 153
06/25/2012 12:43	COMPLETE	FRE	373411	Freeman Creek at Sugar Bush Rd
06/25/2013 10:20	COMPLETE	BEP2B	10007758	Big Eau Pleine Reservoir - Main Channel River Mile 3

Documents

Title	Description	Author	Published	Comments
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Budget

Budget Description: Budget for Big Eau Pleine River (1427200) Volunteer (CBSM) 303 d Monitoring - Continued- WCR_02_CMP12	Start Date: 07/01/2011	End Date: 06/30/2012
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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours	40	Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary		Hours	\$13.00	\$0.00	
LTE FR	LTE Fringe				\$0.00	
LTE IND	LTE Indirect				\$0.00	
LTE TOT	LTE Total Cost				\$0.00	
SUPPLY	Supplies	1		\$500.00	\$500.00	Shipping, ice, straping tape
MILEAGE	Mileage	1000	Miles	\$0.50	\$500.00	
MEAL	Meals		Meals	\$9.00	\$0.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$500.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
EQUIP	Equipment	1		\$350.00	\$350.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$1,350.00	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I251UNL	CHLOROPHYLL A, FLUORESCENCE (EPA 445.00)	INORGANIC CHEMISTRY	5	\$24.52	\$122.60
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	36	\$23.60	\$849.60
I530CLD	DISS REACTIVE PHOSPHORUS AS P (ORTHO-P) (SM 4500PE)	INORGANIC CHEMISTRY	36	\$23.00	\$828.00
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	36	\$18.80	\$676.80
I650JLV	VOLATILE SUSPENDED SOLIDS (SM 2540E-17TH ED)	INORGANIC CHEMISTRY	5	\$10.03	\$50.15
I720BLT	FIELD TESTS	INORGANIC CHEMISTRY	36	\$6.36	\$228.96

Total SLOH Lab Costs: \$2,756.11
Total Budget: \$4,106.11

Combined Budgets: \$1,350.00
Combined SLOH: \$2,756.11
Combined Total: \$4,106.11

Funding

Organization	Source	Type	Amount	Start Date	End Date
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