

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: WCR_07_CMP15
Name: Lake Arbutus 303(d) listing
Type: TMDL/303d Projects
Subtype: Determine Pollutants or Impairments
Status: COMPLETE
Start Date: 07/01/2015
End Date: 06/30/2017
Purpose: Lake Arbutus was last monitored in 2005 at which time the average phosphorus concentration was 124ug/L and the average Chlorophyll a concentration was 49ug/L. Recent complaints by lake users indicate algal blooms are common and interfering with designated uses of this lake. There are currently no CLMN volunteers associated with Lake Arbutus able to conduct chemistry monitoring. This project would fund a second year of sampling by WDNR to verify, per Wisconsin Consolidated Assessment and Listing Methodology (WisCALM) guidance, whether 303(d) listing is appropriate for this lake.
Objective: Chemistry samples for total phosphorus and Chlorophyll a were collected in Lake Arbutus in July, August and September 2014. The average total phosphorus concentration was 139 ug/L, the average Chlorophyll a concentration was 10.0 ug/L and the average Secchi disc reading was 0.70 meters. Lake Arbutus will be sampled again in 2015 to determine if current in-lake conditions meet water quality standards. There was above average rainfall during June 2014 in Western Wisconsin which possibly led to shorter residence times and subsequently below average Chlorophyll a concentrations. An additional year of sampling may be necessary in 2016 to capture typical in-lake conditions.
Comments: Continuing, year 2 of 2

This project is being continued as a Direct Lakes project new project name: Directed Lakes 2015 Sorge-Lake Arbutus Tier II Assessment for 303(d) listing New project ID:DL2015_Sorge
Outcome: Project will provide water quality data needed to determine 303(d) listing per WisCALM guidance.

Study Design:
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
LALIBERTE, PAUL J	SUPERVISOR	COMPLETE	07/01/2015	06/30/2017	Wisconsin DNR	
Lepsch, Jodi A	COORDINATOR	ACTIVE	07/01/2015	06/30/2017	Wisconsin DNR	
Sorge, Patrick W	COORDINATOR	ACTIVE	07/01/2015	06/30/2017	Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
01/26/2015	Patrick Sorge	Proposed	Year two of WisCALMS monitoring
02/10/2015	KEVIN OLSON	Progress: 0-25% Complete	Project moved to Directed Lakes new project name: Directed Lakes 2015 Sorge-Lake Arbutus Tier II Assessment for 303(d) listing new project ID:DL2015_Sorge

Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	
3. Proposed Dates for Sample Collection	
4. List applicable databases and who will enter data?	
5. Did you receive competitive projects funding during FY 2010?	

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Question**Answer**

6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?

7. Reviewer Notes: Identify questions or issues with project (use during review period)

Actions

Action	Detailed Description	Start	End Date	Status
Monitor or Propose 303(d) Listing	Lake Arbutus was last monitored in 2005 at which time the average phosphorus concentration was 124ug/L and the average Chlorophyll a concentration was 49ug/L. Recent complaints by lake users indicate algal blooms are common and interfering with designated uses of this lake. There are currently no CLMN volunteers associated with Lake Arbutus able to conduct chemistry monitoring. This project would fund a second year of sampling by WDNR to verify, per Wisconsin Consolidated Assessment and Listing Methodology (WisCALM) guidance, whether 303(d) listing is appropriate for this lake.	07/01/2015	06/30/2017	PROPOSED

Monitoring Stations

Station ID	Name	Comments
273120	Lake Arbutus - Deep Hole	

Assessment Units

WBIC	Segment	Local Name	Official Name
1727700	1	Arbutus Lake	Arbutus Lake*

Lab Account Codes

Account Code	Description	Start Date	End Date
WT142	303D/TMDL MONITORING	05/03/2011	09/30/2015

Forms

Form Code	Form Name
INORGANIC	Inorganic Lab - Field Data
SECCHI_TEMPDO_PLI	Lake Monitoring - Secchi, Temp., D.O., pH, Conductivity

Methods

Method Code	Description
BASELINE LAKE MONITORING METHODS - LAKE PROFILES LAKES_LTT_2008	Baseline Lake Monitoring Temperature/D.O./Conductance Profile 2003 Lake Long Term Trend Water Quality Sampling Procedures 2008

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
07/15/2015 10:00	COMPLETE	LA1	273120	Lake Arbutus - Deep Hole

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Start Date	Status	Field ID	Station ID	Station Name
08/17/2015 12:30	COMPLETE	LA	273120	Lake Arbutus - Deep Hole
09/14/2015 10:00	COMPLETE	ALI	273120	Lake Arbutus - Deep Hole

Documents

Title	Description	Author	Published	Comments
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Budget

Budget Description: FY2016 **Start Date:** 07/01/2015 **End Date:** 06/30/2016

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours		Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	80	Hours	\$16.00	\$1,280.00	
LTE FR	LTE Fringe				\$316.16	
LTE IND	LTE Indirect				\$258.10	
LTE TOT	LTE Total Cost				\$1,854.26	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	360	Miles	\$0.72	\$259.20	
MEAL	Meals	6	Meals	\$9.00	\$54.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$313.20	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$2,167.46	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I251UNL	CHLOROPHYLL A, FLUORESCENCE (EPA 445.00)	INORGANIC CHEMISTRY	3	\$24.52	\$73.56
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	3	\$21.45	\$64.35

Total SLOH Lab Costs: \$137.91
Total Budget: \$2,305.37

Budget Description: FY2017 **Start Date:** 07/01/2016 **End Date:** 06/30/2017

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours		Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary	80	Hours	\$13.00	\$1,040.00	
LTE FR	LTE Fringe				\$256.88	
LTE IND	LTE Indirect				\$209.71	
LTE TOT	LTE Total Cost				\$1,506.59	
SUPPLY	Supplies				\$0.00	
EQUIP	Equipment				\$0.00	
MILEAGE	Mileage	360	Miles	\$0.72	\$259.20	
MEAL	Meals	6	Meals	\$9.00	\$54.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$313.20	

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Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts				\$0.00	
USGS	USGS Costs				\$0.00	
TOTAL	Total Cost (excludes SLOH)				\$1,819.79	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I251UNL	CHLOROPHYLL A, FLUORESCENCE (EPA 445.00)	INORGANIC CHEMISTRY	3	\$24.52	\$73.56
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	3	\$21.45	\$64.35

Total SLOH Lab Costs: \$137.91
Total Budget: \$1,957.70

Combined Budgets: \$3,987.24
Combined SLOH: \$275.82
Combined Total: \$4,263.06

Funding

Organization	Source	Type	Amount	Start Date	End Date
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