



Forest Lake

2016 AIS Management Plan

Curly-leaf Pondweed

- Accomplishments
 - Applied for DNR permit (submitted 1/20/2016)
 - Applied for DNR grant (submitted 1/20/2016)
 - Obtained quotes for herbicide application (Lake Management Inc. & PLM)
- Planned/Ongoing Activities
 - Early season delineation (also look for EWM) – Blue Water Science (April 2016)
 - Herbicide treatment (May 2016)
 - Follow-up assessment – Blue Water Science (June 2016)
- Deliverables
 - Delineation and assessment report – Blue Water Science (Fall/Winter 2016)

Eurasian Watermilfoil

- Completed Activities
 - Applied for DNR permit (submitted 1/20/16)
 - Applied for DNR grant (submitted 1/20/16)
 - Obtained quotes for herbicide application and mechanical removal (Lake Management Inc., PLM, Dive Guys)
- Planned/Ongoing Activities
 - Research granular herbicide application techniques (communicate with Sugar Lake representative regarding granular precision application)
 - Communicate with Carnelian-Marine-St. Croix Watershed District about innovative control in Big Marine Lake
 - Early season delineation – Blue Water Science (June 2016)
 - Second delineation – Blue Water Science (July 2016)
 - Treatment (May-July 2016)
 - Follow-up assessment – Blue Water Science (July or August 2016)
 - Final report – Blue Water Science (December 2016 – January 2017)
- Deliverables
 - Delineation and assessment report – Blue Water Science (Fall/Winter 2016)

Flowering Rush

- Completed Activities
 - Applied for DNR permit (submitted 1/20/16)
 - Applied for DNR grant (submitted 1/20/16)
 - Obtained quotes for herbicide application and mechanical removal (PLM, Dive Guys)
- Planned/Ongoing Activities



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- Obtain quote for mechanical removal from Waterfront Restoration, LLC
- Pursue Initiative Foundation Outdoor Heritage Funds to test mechanical cutting technique effectiveness
- Deliverables
 - Blue Water Science: Delineation and assessment report
 - 2015 management program summary with photos posted to CLFLWD website

Zebra Mussels

- Planned Activities
 - Coordinate with multiple volunteers to monitor sampler plates on public and private docks to monitor population density and distribution. Each site will have two sampler plates: one to measure monthly zebra mussel colonization and one to measure colonization over the entire summer.
- Deliverables
 - Zebra mussel population density and distribution summary – CLFLWD (November 2016)

Watercraft Inspections

- Completed Activities
 - Applied for cost-share grant to receive additional watercraft inspection hours by DNR staff
 - Applied for Washington County AIS Prevention grant to receive funding for inspection hours
 - Applied for Washington County AIS Prevention grant to receive funding for boat launch access improvements
 - Met with Chisago County AIS representatives to plan summer program
- Planned Activities
 - Chisago County will hire 5 inspectors to rotate amongst CLFLWD public accesses. One inspector will rotate between Comfort Lake and Bone Lake. The other 4 inspectors will rotate between the 3 public accesses on Forest Lake
 - Two of the three public accesses (1st Lake and 3rd Lake) will receive additional hours from level 2 inspectors and the decontamination unit that Chisago County purchased in 2015. The decontamination unit will follow a regular rotation between 8 major accesses in Chisago County and the 2 accesses on Forest Lake
- Deliverables
 - 2016 AIS Prevention Report – Chisago County (January 2017)

Rough Fish Management

- Planned/Ongoing Activities
 - BWS to conduct survey on Cranberry Lake to evaluate its potential as a carp spawning area

Forest Lake Management



		Sub Totals				Annual	Timeline											
		Budget	Grants/Cont.	BWS	Contractor	Balance	April	May	June	July	August	September	October	November	December	January	February	
Forest Lake 2016 Activities		\$ 168,500	\$ 125,548	\$ (12,100)	\$ (149,900)	\$ 132,048												
Curly-Leaf Pondweed	Work Task	2016 Budget	Grants/Cont.	BWS	Contractor	Total Expense												
	Delin-Report			\$ (2,600)		\$ (2,600)												
	Permitting	\$ 50,000				\$ -												
	Management		\$ 20,833		\$ (25,000)	\$ (25,000)												
	Total	\$ 50,000	\$ 20,833	\$ (2,600)	\$ (25,000)	\$ (27,600)												
Flowering Rush	Work Task	2016 Budget	Grants/Cont.	BWS	Contractor	Total Expense												
	Delin-Report			\$ (6,200)		\$ (6,200)												
	Permitting	\$ 50,000				\$ -												
	Management		\$ 38,333		\$ (40,000)	\$ (40,000)												
	Total	\$ 50,000	\$ 38,333	\$ (6,200)	\$ (40,000)	\$ (46,200)												
Eurasian Watermilfoil	Work Task	2016 Budget	Grants/Cont.	BWS	Contractor	Total Expense												
	Delin-Report			\$ (3,300)		\$ (3,300)												
	Permitting	\$ 50,000				\$ -												
	Management		\$ 20,833		\$ (21,000)	\$ (21,000)												
	Total	\$ 50,000	\$ 20,833	\$ (3,300)	\$ (21,000)	\$ (24,300)												
Rough Fish Management	Work Task	2016 Budget	Grants/Cont.	BWS	Contractor	Total Expense												
	Fish Survey - Cranberry Lake					\$ -												
	Total					\$ -												
Zebra Mussels	Work Task	2016 Budget	Grants/Cont.	BWS	Contractor	Total Expense												
	Samplers	\$ 500			\$ (350)	\$ (350)												
	Total	\$ 500	\$ -	\$ -	\$ (350)	\$ (350)												
Boat Launches	Work Task	2016 Budget	Grants/Cont.	BWS	Contractor	Total Expense												
	Inspection Hours	\$ 18,000	\$ 44,000		\$ (62,000)	\$ (62,000)												
	Improvements		\$ 1,550		\$ (1,550)	\$ (1,550)												
	Total	\$ 18,000	\$ 45,550	\$ -	\$ (63,550)	\$ (63,550)												
2016 Work Plan and Budgeting							WD/EOR											

*Figures in italics represent estimates based off quotes or 2015 expenses

2015 Work	Status
EWM Initial Investigation & Map	Received
EWM Final Investigation & Map	Received
FR delineation & assessment	Received
EWM assessment report	Received
EWM & CLP assessment report	Received
ZM distribution/pop report	Received

2016 Work	Status
CLP Delin & Assessment	
EWM Delin & Assessment	
FR Delin & Assessment	
ZM Population Distribution	
Cranberry Lake Fish Survey	

2016 EWM Treatment Cost Estimates							
Based on 30 acres of EWM							
Liquid Herbicide (Triclopyr)		Liquid Herbicide (2,4-D)		Granular Herbicide (Triclopyr)		Granular Herbicide (2,4-D)	
PLM Lake and Land Mgmt	Lake Mgmt Inc.	PLM Lake and Land Mgmt	Lake Mgmt Inc.	PLM Lake and Land Mgmt	Lake Mgmt Inc.	PLM Lake and Land Mgmt	Lake Mgmt Inc.
\$21,750	\$13,350	\$11,730	\$10,650	\$50,100		\$28,650	