

<u>ITEM</u>	<u>GOALS and</u> ACTION ITEMS	<u>WHO</u>	<u>WHEN</u>
Aquatic Species Management	<b>Machine harvest aquatic plants to improve water quality, to provide safe boating areas, and to improve aquatic habitat.</b>		
	1. Harvest map (Appendix A) will be followed by harvesting crew. Areas in the lake 3 foot deep or greater will be harvested as needed to a depth of 1 foot from lake bottom. All harvesting will get no closer to the shoreline than the docks. No harvesting in areas between shoreline and ends of the boat docks except a 30 foot wide area may be hand harvested.	BRC Lake District	2010 to 2015
	2. Document justification to extend harvesting to areas of 3 feet or greater. documentation will be presented to WDNR for approval.	BRC Lake District Adams LWCD	2010 to 2015
	3. Prepare report to Scott Provost with the following information: Date the early season harvesting started to target EWM. Date early-season EWM harvesting ended. Estimated tons of weeds removed in this early season harvest Date started general navigation harvesting. Estimated tons of plants removed during the general navigation harvesting. Estimate tons of weeds removed in the fall harvest.	BRC Lake District	annually
	4. Place a 5 foot harvester to work on section 4 on a daily basis (Monday through Friday) subject to equipment failures, weather and severity of weeds in given areas.	BRC Lake District	annually
	5. Develop a schedule for Saturday weed pick-up.	BRC Lake District	annually
	6. Harvesting Equipment Plan: Develop and implement a 3 to 5 year plan to evaluate all harvest equipment. Pursue State matching grant funding to add/or replace obsolete equipment. Improve the harvesting equipment operation by recommending new and improved systems.	BRC Lake District	2010 to 2015
	7. Research and continue to secure site to dock harvesters.	BRC Lake District	2010-2015

**BIG ROCHE A CRI LAKE MANAGEMENT PLAN**

page 12

<u>ITEM</u>	<u>GOALS and</u> <u>ACTION ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Aquatic Species Management continued ...	<p><b>Monitor the harvesting of aquatic plants</b></p> <ol style="list-style-type: none"> <li>1. WDNR representative and a BRC Lake District representative will together annually inspect harvesting operations.</li> <li>2. Record the pounds of aquatic plants removed by taking an average weight of a trailer full of plants harvested and multiplying this by the number of trailer loads. This will be documented and reported to WDNR Aquatic Plant Specialist by 10/31 of each year.</li> <li>3. Tissues samples will be randomly taken from harvested plants and sent to a certified lab to measure the phosphorus content. This is done to determine the amount of phosphorus being removed from the lakes by harvesting plants.</li> </ol>	<p>WDNR BRC Lake District</p> <p>BRC Lake District</p> <p>Adams LWCD</p>	<p>2010 to 2015</p> <p>annually</p> <p>2010 to 2015</p>

<u>ITEM</u>	<u>GOALS and</u> <u>ACTION ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Aquatic Species Management continued ...	<b>Update 2013 Aquatic Plant Community Survey</b>		
	1. Conduct updated aquatic plant community survey. Identify & quantify aquatic plants, including invasive species, and map same.	Adams LWCD, WDNR	2017
	<b>Investigate the use of chemicals to control aquatic plants to improve water quality. This excludes noxious weed and invasive plant control.</b>		
	1. Investigate new methods of controlling aquatic plants and implement methods.	BRC Lake District	2010 to 2015
	2. Educate individuals on alternative aquatic plant control methods. A fact sheet will be developed and given to lake district members.	BRC Lake District Adams LWCD, DNR	2010 to 2015
	<b>Prevent the spread of &amp; try to eliminate exotic, invasive &amp; noxious species</b>		
	1. Develop & implement plan to control existing exotic, invasive & noxious species and prevent introduction of any new ones. This plan will include an educational component & boat inspection component.	Adams LWCD, DNR Adams LWCD, BRC Lake District	ongoing
	2. Pursue financial assistance for implementation of prevention and control plan.	DNR, Private consultants Adams LWCD BRC Lake District	ongoing
	3. Update aquatic plant survey every 3 to 5 years.	DNR, Private consultants Adams LWCD BRC Lake District	2010 to 2015
	4. Research options regarding a drawdown to control EWM	BRC Lake District	2010-2015

**BIG ROCHE A CRI LAKE MANAGEMENT PLAN**

<u>ITEM</u>	<u>GOALS and</u> <u>ACTION ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Dam	<b>Insure public safety, proper dam function, and a stable lake level.</b>		
	1. Conduct annual inspections and record findings as specified in WDNR standards	Engineer certified by Nat'l Assoc. of Prof. Eng. Adams LWCD	annually
	2. Operate, inspect, and repair dam to meet Wisconsin laws in Chapter 31 and NR Chapter 330.	Adams LWCD and dam lessee	daily
	3. Review and update the Emergency Action Plan	Adams LWCD	annually
	4. Implement the Emergency Action Plan in times of emergencies	County Board Chair and Adams LWCD	Up to date
	5. Lease the dam operations to a private individual or company who will produce Hydro-electricity. Payment and terms will be defined in the lease agreement.	Adams County	Daily

**BIG ROCHE A CRI LAKE MANAGEMENT PLAN**

page 15

<u>ITEM</u>	<u>GOALS and</u> <u>ACTION ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Recreational Uses	<b>Manage lakes for fishing, boating, swimming and skiing.</b>		
	1. Monitor lake traffic to increase lake safety. This will be accomplished by coordinating the implementation and enforcement of state laws, county and town ordinances, and lake association covenants.	BRC Lake District Community members WDNR, Sheriff Dept.	2010 to 2015
	2. Publish state and local laws that regulate lake activities in the lake district newsletter, local paper, and on lake district website.	BRC Lake District Adams LWCD, WDNR	2010 to 2015
	3. Stock fish as needed with advice and recommendations from fisheries biologists.	WDNR	2010 to 2015
	4. Identify areas where underwater obstructions may be removed and develop a plan for their removal. This will increase recreational activity safety. The plan is not intended for wholesale stump removal. Fish cribs should replace any removed stumps.	BRC Lake District Adams LWCD, WDNR	annually
	5. Educate lake district membership about lake safety and courtesy rules.	BRC Lake District Adams LWCD, WDNR	annually
	6. Conduct public users survey to identify important management issues. Surveys and drop boxes will be located at boat launches for one year. Issues will be incorporated into lake management plan.	BRC Lake District	annually
	7. Monitor Highway 13 boat launch and boat launch road.	BRC Lake District	annually

<u>ITEM</u>	<u>GOALS and</u> <u>ACTION ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Shorelands - area within 1000 feet of the lake.	<b>Reduce nutrients entering groundwater that then enters into the lake.</b>		
	1. Inventory and map septic systems within the Big Roche A Cri Lake District	BRC Lake District Adams LWCD Adams P&Z	2010-2015
	4. Develop & distribute fact sheet so homes reduce nutrients entering groundwater	BRC Lake District Adams LWCD	2014-2019
	<b>Reduce nutrients entering the lake by surface water.</b>		
	1. Develop policy and educational plan to discourage the use of phosphorus in lawn fertilizers and household products; on the benefits of riparian buffers and storm water runoff management utilizing meetings, newsletters, and individual visits.	BRC Lake District Town of Preston Adams LWCD	annually
	2. Inventory shoreline to ID erosion, non riparian buffer & no storm water runoff mgmt.	Adams LWCD	annually
	3. Plan/design & offer cost share to install shoreline protection, riparian buffers, and storm water runoff management to areas identified in inventory. Utilize Adams Soil & Water Resource Mgmt Program & WDNR financial assistance programs.	Adams LWCD WDNR, landowners	annually
	4. Develop welcome packet for new landowners.	BRC Lake District Town of Preston, LWCD	2010-2015

**BIG ROCHE A CRI LAKE MANAGEMENT PLAN**

page 17

<u>ITEM</u>	<u>GOALS and</u> ACTION ITEMS	<u>WHO</u>	<u>WHEN</u>
Shorelands - area within 1000 feet of the lake.	<b>Maintain safety and aesthetics of the lake and the shoreline</b>  1. Develop an ordinance that requires landowners to maintain dock and steps and to replace them once they fail.	BRC Lake District Town of Preston	2015

<u>ITEM</u>	<u>GOALS and</u> <u>ACTION ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Water Quality	<p><b>Maintain present water quality and prevent algae blooms</b></p> <p>1. Monitor water quality to measure success of meeting nutrient reduction goals. The lake will be sampled monthly, May through August and tested for clarity, chlorophyll a, &amp; total phosphorus and compare to 1999-2000 water quality data (Appendix B).</p>	BRC Lake District Adams LWCD	annually
	2. Quantify yearly nutrient reduction goals.	Adams LWCD, WDNR BRC Lake District	annually
	<b>Educate community and public about ways to improve water quality.</b>		
	1. Obtain information from WAL and other sources and publish articles in lake district newsletters.	Adams LWCD BRC Lake District	annually
	<b>Practice proper land use utilizing Comprehensive Plans and Zoning</b>		
	1. Within the Big Roche A Cri Lake watershed, develop and implement smart growth plans.	Towns of Preston, Leola, Colburn, Big Flats Adams P & Z	annually
	2. Encourage smart growth plan development by attending town meetings in those towns within the Big Roche A Cri Lake watershed who do not have smart growth plans.	BRC Lake District	annually

**BIG ROCHE A CRI LAKE MANAGEMENT PLAN**

<u>ITEM</u>	<u>GOALS and</u> <u>ACTION ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Water Quantity	<b>Maintain lake levels that enhance water quality and meet the requirements of Wisconsin Statute Chapter 31.</b>		
	1. Operate dam to maintain lake levels and outflows as stated by WDNR.	Dam Lessee	annually
	2. Gather information and develop a plan with WDNR to increase the depth in shallow portions of the lake. Possible options include sediment basin and dredging. Present findings to WDNR.	BRC Lake District Adams LWCD, WDNR Private consultant	2010- 2015
	3. Investigate and develop a plan for a biannual drawdown for shoreline and lake maintenance activities.	BRC Lake District	2010- 2015
	4. Continue investigation of increasing the flow of the Lake	BRC Lake Distirct	2010- 2015
	<b>Maintain stable stream flows into and out of the Big Roche A Cri Lake.</b>		
	1. Operate dams in a proactive manner so large quantities of water are not released causing downstream flooding and streambank erosion. Lake levels will be lowered in a slow consistent manner to accommodate anticipated heavy rains and/or snowmelt runoff and/or discharge from cranberry bogs.	Dam Lessee	annually

<u>ITEM</u>	<u>GOALS and ACTION ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Watershed - land outside of shoreland area	<b>Reduce the total phosphorus, total nitrogen, and total solid sediments entering the lake.</b>		
	1. Sample and test water as it enters the lake to determine total phosphorus, total nitrogen, and total solid sediments to measure level of accomplishments Monthly, May through August.	BRC Lake District Adams LWCD	annually
	2. Inspect the drainage district annually to determine if requirements of Chapter 48 are being met, specifically: buffer corridors established and maintained around ditches, enforcing 20-foot drainage; whether cross-sections or grade profiles of district ditches have changed; whether any ditches should be restored, altered or improved to ensure proper erosion or sedimentation problems. A report summarizing the annual inspection will be filed with the County Planning and Zoning Dept. by December 1 of each year.	Adams Drainage Board	annually
	3. Implement State Agricultural Performance Standards by inventorying watershed and documenting: runoff from livestock confinement operations entering surface waters; livestock direct access sites; uncontained livestock manure storage facilities; soil erosion sites, and producers not implementing nutrient management plans and irrigation water management plans. Offer County, State, Federal cost share assistance and plan/design assistance to landowners identified in inventory so best management practices are installed for compliance with the State Agricultural Performance Standards.	Adams LWCD, NRCS DNR, Waushara LWCD private organizations Agriculture Producers	2010 To 2015
	4. Inventory of BRC Creek and identify streambank erosion sites for purposes of Implementing projects.	Adams LWCD, DNR	2015
	5. Utilize the USDA-Environmental Quality Incentive Program to provide plan/design	USDA-NRCS	2010 to

and financial assistance to cranberry producers to implement best management practices to improve water quality and quantity.

Cranberry Grower Assoc 2015

BIG ROCHE A CRI LAKE MANAGEMENT PLAN

page 21

<u>ITEM</u>	<u>GOALS and ACTION ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Watershed - land outside of shoreland area continued ...	<p><b>Create community awareness and improve community knowledge about watershed activities</b></p> <ol style="list-style-type: none"> <li>1. Conduct a tour of cranberry and potato production operations to demonstrate best management practices.</li> <li>2. Develop a plan for the exchange of information between agricultural producers and lake district members.</li> </ol>	<p>USDA-NRCS, LWCD Wisconsin Cranberry Grower Assoc. WPVGA</p> <p>Adams LWCD, BRC Lake District</p>	<p>2014</p> <p>2015</p>
Lake Management	<p><b>Provide leadership and guidance to BRC District Landowners</b></p> <ol style="list-style-type: none"> <li>1. After Treasurer's term as a Commissioner, an independent investigative audit shall be performed.</li> </ol>	<p>Independent Auditor</p>	<p>End of Term</p>