

	BIG ROCHE A CRI LAKE MANAGEMENT PLAN pt 2--2015		
<u>ITEM</u>	<u>GOALS and ACTIONS ITEMS</u>	<u>WHO</u>	<u>WHEN</u>
Aquatic Species Management	Machine harvest aquatic plants to improve water quality, to provide safe boating areas & to improve aquatic habitat.		
	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	2012 to 2017
	2. Document justification to extend harvesting to areas of 3 feet or greater. Present documentation to WDNR for approval.	BRC Lake District Adams LWCD	2012 to 2017
	3. Prepare report to Scott Provost with the following information: Date mechanical harvesting started & ended. Estimated tons of plants removed during mechanical harvesting. Amount of phosphorus removed from harvesting.	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 aquatic plants 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 & implement 3 to 5 year to evaluate all harvesting equipment.	BRC Lake District	2012 to 2017
	7. Pursue State matching grant funding to add/or replace obsolete equipment.	BRC Lake District	2012 to 2017
	8. Build and install sprayer system on harvesters.	BRC Lake District	2012 to 2017
	9. Research & make recondation regarding District purchase of building.	BRC Lake District	2013 to 2017
	10. Research and continue to secure site to dock harvesters.	BRC Lake District	2012 to 2017
	Monitor the harvesting of aquatic plants		
	1. WDNR representative and a BRC Lake District representative will annually inspect harvesting operations.	WDNR BRC Lake District	2012 to 2017
	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 & reported to WDNR Aquatic Plant Specialist by 12/31 of each year.	BRC Lake District	2012 to 2017
	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. Report to WDNR & LWCD.	BRC Lake District	2012 to 2017
	Update Aquatic Plant Community Survey every 3-5 years		
	1. Conduct updated aquatic plant community survey. Identify & quantify aquatic plants, including invasive species, and map same.	Adams LWCD, WDNR	2012 to 2017

	2. Annually map aquatic invasives.	LWCD, BRC	annually
	Investigate the use of chemicals to control aquatic plants to improve water quality & manage noxious/invasive plants.		
	1. Investigate new methods of controlling aquatic plants and implement methods.	BRC Lake District WDNR, LWCD	2012 to 2017
	2. Educate individuals on alternative aquatic plant control methods. Develop fact sheet to give to district members..	BRC Lake District Adams LWCD, WDNR	2012 to 2017
	Prevent the spread of & try to eliminate exotic, invasive & noxious species.		
	1. Develop & implement plan to control existing exotic, invasive & noxious species & prevent introduction of new ones. This plan will include an educational component & boat inspection (CBCW) component & volunteer AIS monitoring each growing season. Use laternative methods like handpulling & DASH where appropriate.	Adams LWCD, WDNR BRC Lake District	ongoing
	2. Pursue financial assistance for implementation of prevention and control plan.	WDNR, Private consultants Adams LWCD BRC Lake District	ongoing
	3. Develop contingency plan, with funding, to cover re-introduction of iaquatic invasives or new invasions.	Adams LWCD BRC Lake District	2017 plus
	4. Update aquatic plant survey every 3 to 5 years.	Private consultants Adams LWCD BRC Lake District	2012 to 2017
	5. Research and apply for grant regarding a drawdown to control EWM.	BRC Lake District	2012 to 2017

Dam	Maintain and operate Cottonville Dam to: insure public safety, proper dam function, hydroelectric production & stable lake level.		
	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 Adams LWCD	as needed
	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	ongoing
Recreational Uses	Manage lakes for fishing, boating, swimming and skiing.		
	1. Regulate lake traffic to increase lake safety. This will be accomplished by implementing & enforcing state laws, county & town ordinances, & lake association covenants.	BRC Lake District Community members WDNR, Adams Sheriff	2012 to 2017
	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	2012 to 2017
	3. Stock fish as needed with advice and recommendations from fisheries biologists.	WDNR BRC Lake District	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. This will not include wholesale stump removal. Fish cribs or other habitat should replace removed stumps.	BRC Lake District Adams LWCD, WDNR	annually
	5. Educate lake district membership about lake safety & 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	at least bi-yearly
	7. Monitor Highway 13 boat launch and boat launch road.	BRC Lake District	annually
Shorelands - areas within 1000 feet of the lake & 300 feet of watershed streams	Reduce nutrients lake from surface waters.		
	1. Conduct an updated shoreland habitat & buffer installation assessment using WDNR protocol. Include assessment of potential stormwater runoff areas & identify eroded areas	LWCD, BRC Lake District	2017 to 2018
	2. Conduct upstream testing for nitrogen, phosphorus, suspended solids & other relevant criteria, including flow, to gain information on upstream nutrient input into the lake.	LWCD, BRC Lake District	2017 to 2018
	3. Use information gathered to identify problem areas & recommended improvement practices.	LWCD, BRC Lake District	2018 plus
	4. Develop policy and educational plan to discourage the use of phosphorus in lawn fertilizers & other chemicals near the lake; of the benefits of riparian buffers and storm runoff management utilizing meetings, newsletters, and individual visits.	BRC Lake District Adams LWCD Town of Preston	ongoing

	5. Distribute waterfront property owners packet to new landowners in the watershed.	LWCD, BRC Lake District	ongoing
	6. Use riparian assessment of Big Roche a Cri Creek system completed in 2014 & contact landowners re BMPs to address problem areas.	LWCD, BRC Lake District	ongoing
	7. Using 2014 inventory, install habitat improvement in streams as needed.	landowners LWCD	2017 plus
	Reduce nutrients entering groundwater that then enters into the lake.		
	1. Develop a fact sheet to describe the formation, implementation, and enforcement processes of a Sanitary District. Distribute fact sheet to district members.	BRC Lake District Adams LWCD	2012 to 2017
	2. Form a Sanitary District for the purpose of regulating all septic systems according to Wis. Administrative Code COMM 83. Formation of the Sanitary District will occur by following state state statutes which require membership approval.	BRC Lake District	2015 to 2017
	3. Inventory and map septic systems within the Big Roche A Cri Lake District.	BRC Lake District Adams LWCD	2012-2017
	4. Develop & distribute fact sheet so watershed homes to reduce nutrients entering groundwater.	BRC Lake District Adams LWCD	annually
	Maintain safety and aesthetics of the lake and the shoreline		
	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 to 2017

Water Quality	Maintain present water quality and prevent algae blooms		
	1. Quantity yearly nutrient reduction goals.	Adams LWCD, WDNR BRC Lake District	annually
	2. Monitor water quality to measure success of meeting nutrient reduction goals. Continue sampling lake monthly May to October, including testing for clarity, total phosphorus, & chlorophyll-a, then compare to historical water quality data, using Citizen Lake Monitoring Program.	BRC Lake District Adams LWCD	ongoing
	Educate community and public about ways to improve water quality.		
	1. Obtain information from WAL and other sources and publish articles in lake district newsletters.	Adams LWCD BRC Lake District	ongoing
	Practice proper land use utilizing Comprehensive Plans & Zoning		
	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	ongoing
	2. Encourage smart growth plan development by attending meetings in those towns within the Big Roche A Cri Lake watershed who do not have smart growth plans.	BRC Lake District	ongoing
	Maintain lake levels that enhance water quality and meet the requirements of of Wisconsin Statute Chapter 31.		
	1. Operate dam to maintain lake levels and outflows as required by WDNR.	Dam Lessee Adams LWCD	ongoing

	2. Gather information and develop a plan with WDNR to increase the depth in shallow portions of the lake. Options could include sediment basin and dredging. Present findings to WDNR.	BRC Lake District Adams LWCD, WDNR Private consultant	2012 to 2017
	3. Investigate and develop a plan for a biannual drawdown for shoreline and lake maintenance activities.	BRC Lake District	2010-
	4. Continue investigation of increasing the flow of the Lake	BRC Lake District	ongoing
	Maintain stable stream flows into and out of the Big Roche A Cri Lake.		
	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, when possible, in slow, consistent manner to accommodate anticipated heavy rain and/or snowmelt and/or discharge from cranberry bogs.	Dam Lessee Adams LWCD	ongoing
Watershed - land outside shore areas	Reduce the total phosphorus, total nitrogen, and total solids entering the lake by 2020.		
	1. Sample and test upstream waters as outlined above to gain baseline data and to measure any levels of reduction. Testing will occur at least monthly May to October, but may occur more often.	BRC Lake District Adams LWCD	2017 plus
	2. Inspect the drainage district annually to determine if requirements of Chapter 48 are being met, especially required buffer corridors & ditch maintenance, as well as any required installation, restoration or improvement to control erosion/sedimentation problems. A report summarizing annual inspection should be filed with Adams County Planning and Zoning Dept. by December 1 of each year.	Adams Drainage Board	annually

	3. Implement State Agricultural Performance Standards by inventorying watershed for NR151 standards, including runoff from livestock or other farming practices; livestock direct access sites; unsafe or uncontained livestock manure storage facilities; soil erosion sites; irrigation water management; nutrient management plants. Offer County, State, Federal technical & cost share assistance to any landowners identified in inventory so best management practices are installed for compliance with the State Ag Performance Standards.	Adams LWCD, NRCS WDNR, DATCP Waushara LWCD private organizations Agriculture Producers	2012 to 2017
	4. Utilize the USDA-Environmental Quality Incentive Program to provide plans/designs & financial assistance to cranberry producers to implement best management practices to improve water quality & quantity.	USDA-NRCS Cranberry Growers	2015 plus
	Create community awareness and improve community knowledge about watershed activities		
	1. Conduct a tour of cranberry and vegetable production operations to demonstrate best management practices.	USDA-NRCS, LWCD Wisconsin Cranberry Grower Assoc. WPVGA	2015 plus
	2. Develop a plan for the exchange of information between agricultural producers & other lake district members.	Adams LWCD, BRC Lake District	2015 plus
Lake Management	Provide leadership and guidance to BRC District Landowners		
	1. After Treasurer's term as a Commissioner, an independent investigative audit shall be performed.	Independent Auditor	end of treasurer's term