

TRI-LAKES MANAGEMENT PLAN

ITEM	GOALS AND ACTION ITEMS	WHO	WHEN	STS
Aquatic Species Management	<p>Machine harvest aquatic plants to improve water quality, to provide safe boating areas and to improve aquatic habitat.</p> <p>1. Harvest maps (Appendix A-D) will be followed by harvesting crew. Areas in the lakes 6 foot deep or greater will be harvested as needed to a depth of 5 feet. Areas shallower than 6 feet can have a harvested path of 60 feet wide with a harvest depth 4 feet or less. The path will get no closer to the shoreline than the docks. No machine harvesting in the areas between the shoreline and the ends of the boat docks. Harvesters are allowed to go beyond docks to pick up weeds. Cutters will be turned off while backflushing in this area. A 30 foot path may be hand-harvested in these areas by the property owner. Harvest period will be between mid-May and end of September.</p> <p>2. Conservancy areas will be marked on the harvest maps.</p>	<p>Tri-Lakes Mgmt District</p> <p>Tri-Lakes Mgmt District</p>	<p>Annually</p> <p>Annually</p>	<p>C</p> <p>C</p>
	<p>Monitor the harvesting of aquatic plants</p> <p>1. WDNR representative and a Tri-Lakes Management representative will together annually inspect harvesting operations.</p> <p>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 12/31. (<i>Refer to Appendix L</i>).</p> <p>3. Composite samples will be randomly taken from harvested plants (per protocol provided by WDNR) and sent to a certified lab to measure the phosphorus content. This is done once per summer to determine the amount of phosphorus being removed from the lakes by harvesting plants.</p> <p>4. Add GPS system to harvester to improve efficiency. Explore alternative product for marine application for better efficiency.</p>	<p>Monitor the harvesting of aquatic plants</p> <p>1. WDNR representative and a Tri-Lakes Management representative will together annually inspect harvesting operations.</p> <p>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 12/31. (<i>Refer to Appendix L</i>).</p> <p>3. Composite samples will be randomly taken from harvested plants (per protocol provided by WDNR) and sent to a certified lab to measure the phosphorus content. This is done once per summer to determine the amount of phosphorus being removed from the lakes by harvesting plants.</p> <p>4. Add GPS system to harvester to improve efficiency. Explore alternative product for marine application for better efficiency.</p>	<p>WDNR Tri-Lakes Mgmt District</p> <p>Tri-Lakes Mgmt District</p> <p>Tri-Lakes Mgmt District WDNR</p> <p>Tri-Lakes Mgmt District</p>	<p>Annually</p> <p>Annually</p> <p>Annually</p> <p>Ongoing</p>

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Aquatic Species Management continued ...	1. Educate individuals on aquatic plant control methods by placing article developed by Adams LWCD in Lake Association communications.	Lake Associations Adams LWCD	Annually	C
	Update 2006 Aquatic Plant Community Survey 1. WDNR Lake Classification grant specifies aquatic plant survey to be conducted. Aquatic plants will be identified and quantified. Completed in 2006; Camelot completed 2009; Arrowhead completed 2010; Sherwood completed 2011. All reports to be posted on Adams LWCD website. Both Camelots were completed in 2013 and Sherwood/Arrowhead was completed in 2014.	Adams LWCD WDNR	Ongoing	C
	Prevent the spread of & try to eliminate invasive & noxious species 1. Invasive plants and noxious weeds will be mapped during aquatic plant surveys. 2. Develop and implement plan to: control existing exotic, invasive and noxious species; and prevent the introduction of exotic, invasive and noxious species. This plan will include an educational component and a boat inspection component. In 2010, a Clean Boats, Clean Waters Program was initiated and has been continued and expanded every summer since then. 3. Make annual contact with boat dealers, boat patrol and water ski team and landscapers regarding methods to prevent spread of invasive species. 4. Pursue financial assistance for implementation of prevention and control plan. 5. Recontact Adams County Parks Committee to pursue installing boat washing equipment at public boat landings; work with Town of Rome if they assume responsibility for the parks. 6. Control Purple Loosestrife using pulling, chemical spot-treatments and bio-controls.	Adams LWCD WDNR WDNR Private consultants Adams LWCD Tri-Lakes Mgmt District Tri-Lakes Mgmt District WDNR, Private consultants, Adams LWCD & Tri-Lakes Mgmt Dist Adams LWCD Adams Parks/Recreation Tri-Lakes Mgmt District Tri-Lakes Mgmt District	2013-14 Ongoing Annually December 1 each year 2014 Ongoing	C C C C

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Aquatic Species Management continued ...	<p>Manage impacts to lakes resulting from the Zebra Mussel invasion.</p> <ol style="list-style-type: none"> 1. Arrange for a series of articles and provide material to the Wisconsin Rapids newspaper, Adams-Friendship newspaper, fishing clubs and lake associations. 2. Use volunteer group to provide education. 3. Develop an advertisement to be placed in lake association newsletters and local newspapers to notify public that there are zebra mussels in Lake Arrowhead, Lake Camelot and Lake Sherwood. 4. Seek funding from AIS grant for boat launch attendant through the Clean Boats, Clean Waters program. 	<p>Tri-Lakes Mgmt District</p> <p>Tri-Lakes, Associations</p> <p>Tri-Lakes Mgmt District Adams LWCD, WDNR</p> <p>Tri-Lakes Mgmt District Adams LWCD, WDNR</p>	<p>Annually</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>	<p>C</p> <p></p> <p>C</p> <p>C</p>
	<p>Monitor the impact of Zebra Mussels</p> <ol style="list-style-type: none"> 1. Monitor zebra mussel research on control methods 2. Maintain coordination and communications with WDNR Specialist & Adams LWCD 	<p>Tri-Lakes, WDNR, Adams LWCD</p> <p>Tri-Lakes, WDNR, Adams LWCD</p>	<p>Annually</p> <p>Ongoing</p>	<p>C</p> <p>C</p>

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Dams	<p>Maintain and operate Arrowhead, Sherwood and Camelot Dams to insure public safety, proper dam function and a stable lake level.</p> <ol style="list-style-type: none"> 1. Conduct inspections and record findings as specified in WDNR standards. 2. Operate, inspect and repair dams to meet Wisconsin laws in Chapter 31 and NR Chapter 330. 3. Review and update the County Emergency Action Plan. 4. Implement the Emergency Action Plan in times of emergency. Evacuation Route signs were added in 2014 by Adams County. 5. Maintain water level gauges that are placed on the sides of the water flow control structures. These gauges will be the official tool used to determine lake levels. Lake level information may be obtained online starting in June, 2010. 6. Maintain history of levels; data can be obtained from Adams County LWCD at 608-339-4268. 	<p>Engineer certified by Nat'l Assn. of Prof. Eng.</p> <p>Adams LWCD</p> <p>Adams LWCD Town of Rome</p> <p>County Board Chair, Adams LWCD & Emergency Mgt and Town of Rome</p> <p>Adams LWCD</p> <p>Adams LWCD</p>	<p>Per WDNR schedule Min. 3 times/week</p> <p>Annually</p> <p>As needed</p> <p>Ongoing</p> <p>Annually</p>	<p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p> <p>C</p>

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Recreational Uses	Manage lakes for boating and skiing. 1. Provide areas for boating/skiing as part of the harvest plan. 2. Regulate lake traffic to increase safety. This will be accomplished by implementing and enforcing state laws, and town ordinances. Pursue 2 nd boat and increase awareness with Town of Rome. 3. Implement methods of enforcing state laws, county and town ordinances. Methods may include anonymous tips hotline, goodwill ambassador groups and education. Once methods have been identified, develop strategy to implement. 4. Install no-wake buoys 100' off the face of the dams shortly after ice-out.	Tri-Lakes Mgmt District Town of Rome WDNR Town of Rome Tri-Lakes Mgmt District Adams LWCD	Ongoing Ongoing Ongoing Ongoing	C C C C
	Manage lakes for fishing. 1. Work with WDNR Fisheries expert to stock game fish, panfish and forage fish in lakes as funding allows. 2. Educate lake users about VHS rules and bait rules. Contact bait shops also. 3. Educate lake users re good of improving littoral and riparian zones to improve fish habitat as long as navigation is not impeded; permit may be required.	Lake Associations Tri-Lakes Mgmt District Tri-Lakes Mgmt District Adams LWCD Tri-Lakes Mgmt District	Ongoing Ongoing Ongoing	C C C
	Manage lakes for swimming. 1. Maintain safety of public swim area on all three lakes by marking with buoys 2. Report any illnesses from blue-green algae to www.dhs.wi.gov/eh/bluegreenalgae	Town of Rome Adams Park & Rec Tri-Lakes Mgmt District	Ongoing Ongoing	C C
	Improve and develop parks associated with the Tri-Lakes. 1. Coordinate efforts to develop plan to improve and develop Tri-Lakes parks. Improvements include adding boat washing stations and containers to dispose of unused bait and aquatic plants at the boat landings.	Town of Rome, Adams Park & Rec, Lake Assns	Ongoing	C

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<p>Shorelands – area within 1000 feet of the lake</p>	<p>Reduce phosphorus and nitrogen entering groundwater that then enters into Tri-Lakes.</p> <p>1. Inventory and map septic systems within the Tri-Lakes Management District. Manage system to notify owners (pre-7/1/1992) to pump septic systems.</p> <p>2. Verify county and state-approved method of sanitary disposal on camping lots in the District.</p>	<p>Tri-Lakes Mgmt District</p> <p>Town of Rome</p>	<p>Ongoing</p> <p>Ongoing</p>	<p>C</p> <p>C</p>
	<p>Reduce nutrients entering the Tri-Lakes by surface water.</p> <p>1. Educate lake shoreline owners on the benefits of riparian buffers and storm water runoff management utilizing meetings, newsletters and individual visits.</p> <p>2. Plan/design and 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 (<i>will expire 7/1/2015</i>). Cost-sharing grants may be available to help.</p> <p>3. Assist lakeshore property owners with Shoreland Protection Ordinance riparian buffer conformance. Cost-sharing grants may be available to help. The deadline for compliance with the Ordinance is July 1, 2015.</p> <p>4. Monitor methods for sanitary disposal for year-round campers. Review Town ordinance.</p> <p>5. Develop compliance plan for Shoreland Protection Ordinance riparian buffer conformance after July 1, 2015. A site is considered compliant if all required documents are submitted and approved. Develop plan for dealing with Beach Club properties.</p>	<p>Tri-Lakes Mgmt District Adams LWCD and P&Z Lake Associations</p> <p>Adams LWCD, WDNR, landowners, Lake Assns</p> <p>Lake Associations Adams P&Z</p> <p>Adams County Town of Rome</p> <p>Adams P&Z</p>	<p>Ongoing</p> <p>Ongoing</p> <p>2012 to 2015</p> <p>Ongoing</p> <p>2015</p>	

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Water Quality	<p>Reduce algae blooms and nutrient levels.</p> <p>1. Utilize the Citizen Monitoring Program to monitor water quality to measure clarity, temperatures, secchi dish readings, chlorophyll A and total phosphorus.</p> <p>2. Monitor water quality at six sites in the upper watershed. Monitor flow rates at three sites.</p> <p>3. Monitor additional 16 sites (Arrowhead-4, Camelot-8 and Sherwood-4) in the lakes and 2 toe drains at each dam.</p> <p>4. Work with WDNR to learn new solutions as they become available. Utilize the DNR website as well as the Lake Specialist at Adams LWCD.</p> <p>5. Evaluate water quality report produced by UW-SP and identify action plan.</p>	<p>Adams LWCD Tri-Lakes Mgmt District Lake Associations</p> <p>Adams LWCD Tri-Lakes Mgmt District</p> <p>Adams LWCD Tri-Lakes Mgmt District Lake Associations</p> <p>Tri-Lakes Mgmt District</p> <p>Tri-Lakes Mgmt District</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>2014-15</p>	<p>C</p> <p>C</p> <p>C</p> <p>C</p>

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<p>Water Quality Continued . . .</p>	<p>Educate community and public about ways to improve water quality.</p> <ol style="list-style-type: none"> 1. Write and publish informational articles in lake association newsletters and in Wisconsin Rapids Tribune. Also post to websites and distribute materials at Environmental Day and Tri-Lakes Annual Meeting. Combine family activity days to reach a wider and younger audience. 2. Distribute Waterfront Property Owners Packet of information prepared by Adams County Lake Specialist to waterfront owners. 3. Educate public about proper disposal of prescription drugs 4. Establish website to serve as portal of information to the property owners. 	<p>Adams LWCD Lake Associations Tri-Lakes Mgmt District</p> <p>Tri-Lakes Mgmt District</p> <p>Tri-Lakes Mgmt District</p> <p>Tri-Lakes Mgmt District</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>2014</p>	<p>C</p> <p>C</p> <p>C</p> <p>C</p>
	<p>Practice proper land use utilizing Comprehensive Plans and Zoning</p> <ol style="list-style-type: none"> 1. Within the Tri-Lakes watershed, continue to implement existing town comprehensive plan. Planning Commission will be reviewing in 2015. 2. Encourage smart growth plan development by attending town meetings in those towns within the Tri-Lakes watershed that do not have comprehensive plans. 	<p>Town of Rome Tri-Lakes Mgmt District</p> <p>Adams County Planning and Zoning</p>	<p>Annually</p> <p>Annually</p>	

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Water Quantity	<p>Maintain lake levels that enhance water quality and meet the requirements of Wisconsin Statute Chapter 31.</p> <p>1. Operate dams to maintain lake levels and outflows as stated by WDNR. These operating levels are listed in Adams County IOM (Inspection, Operation, Maintenance) Plan (Appendix G)</p> <p>2. Investigate groundwater net flow around and through dams and determine what phosphorus content the flow contains. Take water samples from toe drains for phosphorus content. Present findings to WDNR.</p>	<p>Adams LWCD</p> <p>Adams LWCD Tri-Lakes Mgmt District State Lab of Hygiene</p>	<p>Annually</p> <p>Ongoing</p>	<p>C</p>
	<p>Maintain stable stream flows into and out of the Tri-Lakes.</p> <p>1. Operate dams in proactive manner so large quantities of water are not released, causing downstream flooding and stream bank erosion. Lake levels will be lowered in a slow manner to accommodate anticipated heavy flows from the upper watershed.</p> <p>2. Develop plan to monitor flows.</p> <p>3. Work with Central Sands water resource group.</p>	<p>Adams LWCD</p> <p>Tri-Lakes Mgmt District UW-SP WDNR Adams LWCD</p> <p>Tri-Lakes Mgmt District</p>	<p>Annually</p> <p>Ongoing</p> <p>Ongoing</p>	<p>C</p> <p>C</p>

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<p>Watershed – land outside of shoreland area</p>	<p>Reduce 50% of the total phosphorus, total nitrogen and total solid sediments entering Leola Ditch, 14 Mile Creek and Unnamed Ditch 13-13 by 2020.</p> <ol style="list-style-type: none"> 1. Develop strategy to implement buffer corridor compliance. Maintain and monitor the buffer corridors. 2. Invite Leola Drainage District governing body to attend a joint meeting and/or request a tour of the ditches. 3. Investigate and discuss methods to purchase land in the watershed in order to broker land use change. 4. Sample and test water at the headwaters region of the drainage district and as it enters Lake Camelot to determine clarity, pH, temperature, biological conditions, total phosphorus, total nitrogen and total sediments. 5. Implement the Adams County Stormwater Runoff Ordinance to prevent and/or reduce nutrients and sediments from entering State’s waters. 6. Monitor and advocate change in Drainage District legislation. 7. Implement State Agricultural Performance Standards by contacting agricultural producers to offer cost share for compliance with preventing: runoff from livestock confinement operations and uncontained livestock manure; sedimentation due to soil erosion from cropland; livestock access stream sites. 	<p>Adams LWCD Adams P&Z</p> <p>Tri-Lakes Mgmt District</p> <p>Tri-Lakes Mgmt District</p> <p>Tri-Lakes Mgmt District</p> <p>Adams LWCD</p> <p>Tri-Lakes Mgmt District</p> <p>Adams LWCD</p>	<p>Completed</p> <p>Ongoing</p> <p>2014</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>	<p>C</p> <p>C</p> <p></p> <p>C</p> <p></p> <p></p>
	<p>Create community awareness and improve community knowledge about watershed activities.</p> <ol style="list-style-type: none"> 1. Educate landowners, agricultural producers and community about State Agricultural Performance Standards and best management practices utilizing newsletters, meetings and individual visits. 	<p>Adams LWCD, NRCS, WDNR, Waushara LWCD CREP</p>	<p>Ongoing</p>	

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