

RED LAKE WATERSHED DISTRICT WATER QUANTITY GOAL PLANNING WORKSHEET
UPPER RED LAKE

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduce peak flows from the RLRC EGF and GM by 10 percent		Ag flooding	Set back levees along ditch systems and Red Lake River, redefine channel via channel restoration	
Reduce runoff volume contributing to peak flows by 20,000 ac-ft.				
Special projects – Actively seek and identify projects to implement based upon problems identified by stakeholders.		Review county ditches specifically CD#1, CD#38, 54 (Star)	Ditch improvements culvert sizing work with county ditch authorities to aid them in the legal process	RLWD counties
Educate – Develop an outreach program that promotes an understanding of the policies and activities of the RLWD.				
Floodplain – participate in floodplain management programs affecting urban and agricultural areas.		Smiley Bridge; Sherwood Forest; (CSP) Conservation Program or other	Flood-proofing levee system; restore wetlands buffer strip	DNR, RLWD, landowners, NRCS, RLWD

- ◆ FDR Issue Areas = Flooding / Flood Damages / Drainage / Drought / Stream Flows / Groundwater / Other Flood Damage Issues
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RED LAKE WATERSHED WATER QUALITY GOAL PLANNING WORKSHEET
UPPER RED LAKE

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Increased knowledge of sources that cause water quality problems.				
Improve Public Education		Filter strips	Improve education and outreach programs; promote conservation security program; CREP; EQIP; Riverwatch – maintain and expand existing program	BWSR; SWCD; NRCS Schools
Improve Interagency Cooperation		Water quality is good	Improve inter-agency cooperation; look for opportunities to jointly fund and participate in projects	DNR; BWSR; MPCA; USACE
Improve Project Implementation				

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RED LAKE WATERSHED EROSION GOAL PLANNING WORKSHEET
UPPER RED LAKE RIVER

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduced agricultural erosion.		Upper Red Lake River		
Decreased sediment to lakes, streams, rivers, drainage systems.		Upper Red Lake River	Buffer strips; BMPs; assisting in reducing bounce that may affect river and ditch bank failures	NRCS; SWCD; RLWD
Increased use of agricultural Best Management Practices.				
Increased public understanding.			Review operating plan for dam at outlet of Red Lakes	USACE; County Board; Tribe; MnDNR; RLWD
Increased interagency cooperation.		Upper Red River		
To be cost effective and to leverage to the extent practical limited resources.				

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RED LAKE WATERSHED NATURAL RESOURCES GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Maintain existing quality habitats (watercourses, wetlands, lakes, grasslands, brushlands)				
Enhance the quality of existing habitats (watercourses, wetlands, lakes, grasslands, brushlands)		Upper Red Lake River	Fish ladder, etc. at outlet of Red Lake * see Recreation section	USACE; RLWD; Tribe; USFW; DNR
Increase the quantity of quality habitats				
Educate folks on the functions and value of existing fish and wildlife habitat with inference to how it can be compatible with FDR.				
Support recreational use of resources.		Upper Red Lake – Active participation of the Red River Corridor folks & assisting them in studies and endeavors	Review operating plan of COE for outflows of water to Red Lake River via dam at Red Lake	USACE; Tribe; RLRCE

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RED LAKE WATERSHED WATER QUANTITY GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduce peak flows from the RLRC EGF and GM by 10 percent	Crookston Flooding		1 – Upstream storage 2 – Land use change 3 – Investigate influence of tiling	
Reduce peak flows from the RLRC EGF and GM by 10 percent	Browns Creek		Investigate options – clean out with sediment control in upper WS	
Reduce runoff volume contributing to peak flows by 20,000 ac-ft.				
Special projects – Actively seek and identify projects to implement based upon problems identified by stakeholders.				
Educate – Develop an outreach program that promotes an understanding of the policies and activities of the RLWD.				
Floodplain – participate in floodplain management programs affecting urban and agricultural areas.				
Widespread flooding throughout no large discrete area				

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RED LAKE WATERSHED WATER QUALITY GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Increased knowledge of sources that cause water quality problems.		LRLR	Develop & implement WQ monitoring/continue existing; Evaluate existing WQ monitoring	Counties, RRWMB, PCA
Improve Public Education		LRLR	Continue Riverwatch	
Improve WQ		LRLR		
Improve Interagency Cooperation		LRLR	Host annual RLWD water quality summit	
Improve Project Implementation		LRLR		
Reduce H2S input from Thief		LRLR		
Test for other constituents			Get state Dept. of Ag. to test for pest/herb/fungicide	
			Support tile water quality monitoring research	

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The WQ goals for LRLR align well with overall watershed. Specific goals and activities.

Please talk with Beth regarding source water protection issues, so that this can be included in the narrative/introduction.

Recognize cities that have completed or are developing wellhead protection plans.

Support Farm Security program.

RED LAKE WATERSHED EROSION GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduced agricultural erosion.	Bank sloughing		improve all ditch systems (side inlets, buffers/filterstrip, windbreaks); consider tile vs. surface drainage; get back from river (bank sloughing)	
Decreased sediment to lakes, streams, rivers, drainage systems.			refer to county plans for specific areas of erosion have erosion be part of WQ summit; stabilize stream banks and beds	
Increased use of agricultural Best Management Practices.				
Increased public understanding.			educate and support CSP	
Increased interagency cooperation.				
To be cost effective and to leverage to the extent practical limited resources.				

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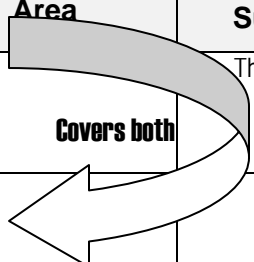
RED LAKE WATERSHED NATURAL RESOURCES GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Maintain existing quality habitats (watercourses, wetlands, lakes, grasslands, brushlands)				
Enhance the quality of existing habitats (watercourses, wetlands, lakes, grasslands, brushlands)				
Increase the quantity of quality habitats				
Educate folks on the functions and value of existing fish and wildlife habitat with inference to how it can be compatible with FDR.				
Support recreational use of resources.				

The stuff is okay in the worksheet on Page 9.

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RED LAKE WATERSHED WATER QUANTITY GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduce peak flows from the RLRC EGF and GM by 10 percent	 Covers both	Thief River	Ditch maintenance, dry impoundments, controlled diversions, land use	"Everyone gets along"
Reduce runoff volume contributing to peak flows by 20,000 ac-ft.				
Special projects – Actively seek and identify projects to implement based upon problems identified by stakeholders.		Thief River	Back to first page	
Educate – Develop an outreach program that promotes an understanding of the policies and activities of the RLWD.		Thief River	RLWD newsletter (in conjunction with Extension?)/Informational meeting?	
Floodplain – participate in floodplain management programs affecting urban and agricultural areas.				

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RED LAKE WATERSHED WATER QUALITY GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues (What is this goal addressing?)		Strategies	Partners
	Area	Subwatershed		
Increased knowledge of sources that cause water quality problems.	Low D.O. (Agassiz, Thief Lake, Moose River, etc.)	Thief River	Further studies to follow up on earlier studies (Brent Johnson's original)	US Fish, DNR, RLWD, Marshall, Beltrami, SWCD, City of TRF, Marshall County
Improve Public Education	All tributaries to river and major ditches	Thief River	Workshops for awareness, septic tank, farm runoff, local feed lot inventory, educate on buffer strips	River Watch, M-B SWCD, NRCS, RLWD, Extension svc, MN assoc. of TWP, Marshall Co. Water Plan
Improve Interagency Cooperation		Thief River	Soil and Water District working more closely with other agencies (watershed)	All agencies
Improve Project Implementation		Thief River	Controls on major ditches, stabilize banks, settling ponds	RLWD, County, NRCS, Soil and Water Districts

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RED LAKE WATERSHED EROSION GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduced agricultural erosion.		Thief River	Permanent buffer strips	SWC FSA watershed district
Decreased sediment to lakes, streams, rivers, drainage systems.			Same	Study to see impact
Increased use of agricultural Best Management Practices.			Unused ditches closed vs. better drainage	
Increased public understanding.				
Increased interagency cooperation.				
To be cost effective and to leverage to the extent practical limited resources.				

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RED LAKE WATERSHED NATURAL RESOURCES GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Maintain existing quality habitats (watercourses, wetlands, lakes, grasslands, brushlands)		Thief River		
Enhance the quality of existing habitats (watercourses, wetlands, lakes, grasslands, brushlands)				
Increase the quantity of quality habitats				
Educate folks on the functions and value of existing fish and wildlife habitat with inference to how it can be compatible with FDR.				
Support recreational use of resources.				

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**RED LAKE WATERSHED WATER QUANTITY GOAL PLANNING WORKSHEET
GRAND MARAIS CREEK**

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduce peak flows from the RLRC EGF and GM by 10 percent		Overall flooding GM subwatershed	Ditch maintenance – make sure they are working; Project 60	
Reduce runoff volume contributing to peak flows by 20,000 ac-ft.		Grand Marais	Project 60	
Special projects – Actively seek and identify projects to implement based upon problems identified by stakeholders.		Grand Marais	Residential flooding along Grand Marais; Establish the Grand Marais as a legal system. Restore sinuosity	
Educate – Develop an outreach program that promotes an understanding of the policies and activities of the RLWD.				
Floodplain – participate in floodplain management programs affecting urban and agricultural areas.				

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RED LAKE WATERSHED WATER QUALITY GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Increased knowledge of sources that cause water quality problems.		River will be listed on next MPCA List of Impaired waters	- continue monitoring; - conduct 7MDL study; - seek funding for special studies to determine causes of WG problems and projects to improve water quality	
Improve Public Education			- Public education about the benefits of buffer strips and other BMPs	
Improve Interagency Cooperation		TMDL listing	- Shaping of data among the RLWD, RRBMN, and Riverwatch; - Make sure all agencies are involved in TMDL (or other) studies	
Improve Project Implementation		Turbidity and TSS under periods of high flow and low DD under low flow	Buffer strips along ditches and the river; - Create control structures at drainage outlets; - Windbreaks to reduce wind erosion; - Agricultural Drainage Management Study	

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RED LAKE WATERSHED EROSION GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduced agricultural erosion.		Loss of windbreaks Conservation tillage	- Find incentives for installation of windbreaks - Project	
Decreased sediment to lakes, streams, rivers, drainage systems.		Bank failures on CD2, JD60, Grand Marais is silted in; - Extreme erosion in diverted portion of the river	- Make sure ditches have correct slopes and buffers - Project 60	
Increased use of agricultural Best Management Practices.		Loss of windbreaks Conservation tillage	- Project 60	
Increased public understanding.			- Increase landowner knowledge of available incentives for best management practices	
Increased interagency cooperation.			- Project 60	
To be cost effective and to leverage to the extent practical limited resources.				

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RED LAKE WATERSHED NATURAL RESOURCES GOAL PLANNING WORKSHEET

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	Area	Subwatershed		
Maintain existing quality habitats (watercourses, wetlands, lakes, grasslands, brushlands)		Grand Marais	WREP wetland restoration and habitat	MRCS, SWCD, RLWD
Enhance the quality of existing habitats (watercourses, wetlands, lakes, grasslands, brushlands)		Flashy hydrographs hinder waterfowl production Vegetation killed in flood plain	Project 60 (impoundments) - moderate flow and reduce turbidity (buffers and windbreaks)	
Increase the quantity of quality habitats		Degraded fish and wildlife habitat Native Prairie	Project 60 (wetland and prairie restoration)	
Educate folks on the functions and value of existing fish and wildlife habitat with inference to how it can be compatible with FDR.				
Support recreational use of resources.				

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RED LAKE WATERSHED WATER QUANTITY GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduce peak flows from the RLRC EGF and GM by 10 percent				
Reduce runoff volume contributing to peak flows by 20,000 ac-ft.				
Special projects – Actively seek and identify projects to implement based upon problems identified by stakeholders.	Clearbrook flooding; City of Bagley; City of Mentor (6)	Clearwater	1. Hydrological study 2. Possibly reduce culvert size to slow flow 3. Possible storage easements 4. Onstream storage 5. Levy construction Ditch cleaning in Mentor	1. Private owners 2. SWCD 3. County engineer
Educate – Develop an outreach program that promotes an understanding of the policies and activities of the RLWD.				
Floodplain – participate in floodplain management programs affecting urban and agricultural areas.				

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RED LAKE WATERSHED WATER QUALITY GOAL PLANNING WORKSHEET
CLEARWATER RIVER

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Increased knowledge of sources that cause water quality problems.	Clearwater Lake – New development homes at Walkerbrook Lake	Clearwater	Continue Riverwatch and current monitoring program	SWCD Clearwater Lake Cabin Owners Association
Improve Public Education	ISTS compliance on area lakes	Clearwater		County Environmental Service offices
Improve Interagency Cooperation				
Improve Project Implementation	Maple Lake suffers from poor water quality Cameron Lake	Clearwater Clearwater	Septic compliance – moderate flow of JD 73 Septic compliance – stormwater drainage from Erskine	RLWD; Maple Lake District; Polk SWCD RLWD; Polk SWCD

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RED LAKE WATERSHED EROSION GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Reduced agricultural erosion.				
Decreased sediment to lakes, streams, rivers, drainage systems.	Bank stabilization and erosion on Lost River Restore channelized reach of the Clearwater River	Clearwater	Get funding for USACE project	RLWD Clearwater SWCD
Increased use of agricultural Best Management Practices.				
Increased public understanding.				
Increased interagency cooperation.				
To be cost effective and to leverage to the extent practical limited resources.				

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RED LAKE WATERSHED NATURAL RESOURCES GOAL PLANNING WORKSHEET

Goal Statement	Priority Issues <i>(What is this goal addressing?)</i>		Strategies	Partners
	Area	Subwatershed		
Maintain existing quality habitats (watercourses, wetlands, lakes, grasslands, brushlands)	Upper Clearwater River trout stream	Clearwater	Continue Riverwatch program. Encourage buffer strips in pasture land and cropland.	
Enhance the quality of existing habitats (watercourses, wetlands, lakes, grasslands, brushlands)				
Increase the quantity of quality habitats				
Educate folks on the functions and value of existing fish and wildlife habitat with inference to how it can be compatible with FDR.				
Support recreational use of resources.				

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	Area	Subwatershed		
Reduce peak flows from the RLRC EGF and GM by 10 percent		Red Lake	Dam op. but impacts would be so <i>negative</i> – to NR-cultural-social – should not consider	
Reduce runoff volume contributing to peak flows by 20,000 ac-ft.		see above		
Special projects – Actively seek and identify projects to implement based upon problems identified by stakeholders.				
Educate – Develop an outreach program that promotes an understanding of the policies and activities of the RLWD.				
Floodplain – participate in floodplain management programs affecting urban and agricultural areas.				

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	Area	Subwatershed		
Increased knowledge of sources that cause water quality problems.	Black Duck; Shotley, Battle; Cormorant Rivers		Increase monitoring	RDLK DNR, PCA, SWCD, EPA
Improve Public Education			RDLK DNR doing education stuff now so continue and coordinate with them	RDLK DNR, EPA, PCA, NRCS
Improve Interagency Cooperation				
Improve Project Implementation				
Improve Quality	Tributaries to Lower Red Lake		Implement agricultural BMPs, including livestock exclusion, by promotion and assistances to increase c/s opportunities	NRCS; SWCD, Rd Lk DNR, EPA

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	Area	Subwatershed		
Reduced agricultural erosion.			No issue on the reservation. Apply ag BMPs in tributaries to Lower Red	
Decreased sediment to lakes, streams, rivers, drainage systems.				
Increased use of agricultural Best Management Practices.				
Increased public understanding.				
Increased interagency cooperation.				
To be cost effective and to leverage to the extent practical limited resources.				

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RED LAKE WATERSHED NATURAL RESOURCES GOAL PLANNING WORKSHEET

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	Area	Subwatershed		
Maintain existing quality habitats (watercourses, wetlands, lakes, grasslands, brushlands)		Red Lake Nation	Integrated resource management plan needs to be updated (do themselves)	
Enhance the quality of existing habitats (watercourses, wetlands, lakes, grasslands, brushlands)		Red Lake Nation	Wild rice stand rehab (for waterfowl feeding and resting)* Natural, not fake wild rice	USFSWS; NAFWS*; do LCMR, MWA
Increase the quantity of quality habitats		Red Lake Nation	Message to WD; more actively involved in NRE activities that impact the lakes, particularly Lower Red Lake (Fish and River Corridor) Habitat	SWCD; NRCS; Tribe; USFWS
Educate folks on the functions and value of existing fish and wildlife habitat with inference to how it can be compatible with FDR.		Red Lake Nation		
Support recreational use of resources.		Red Lake Nation		
Fish – Resource		Red Lake Nation	Do not pursue dam operation that allows fish escapement; dam operation that neg. impacts in lake spawning	
Fish – Resource		Red Lake Nation	Improve water quality in feeder river to Lower Red Lake to assure fish spawning in these rivers	

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