



RED RIVER RETENTION AUTHORITY

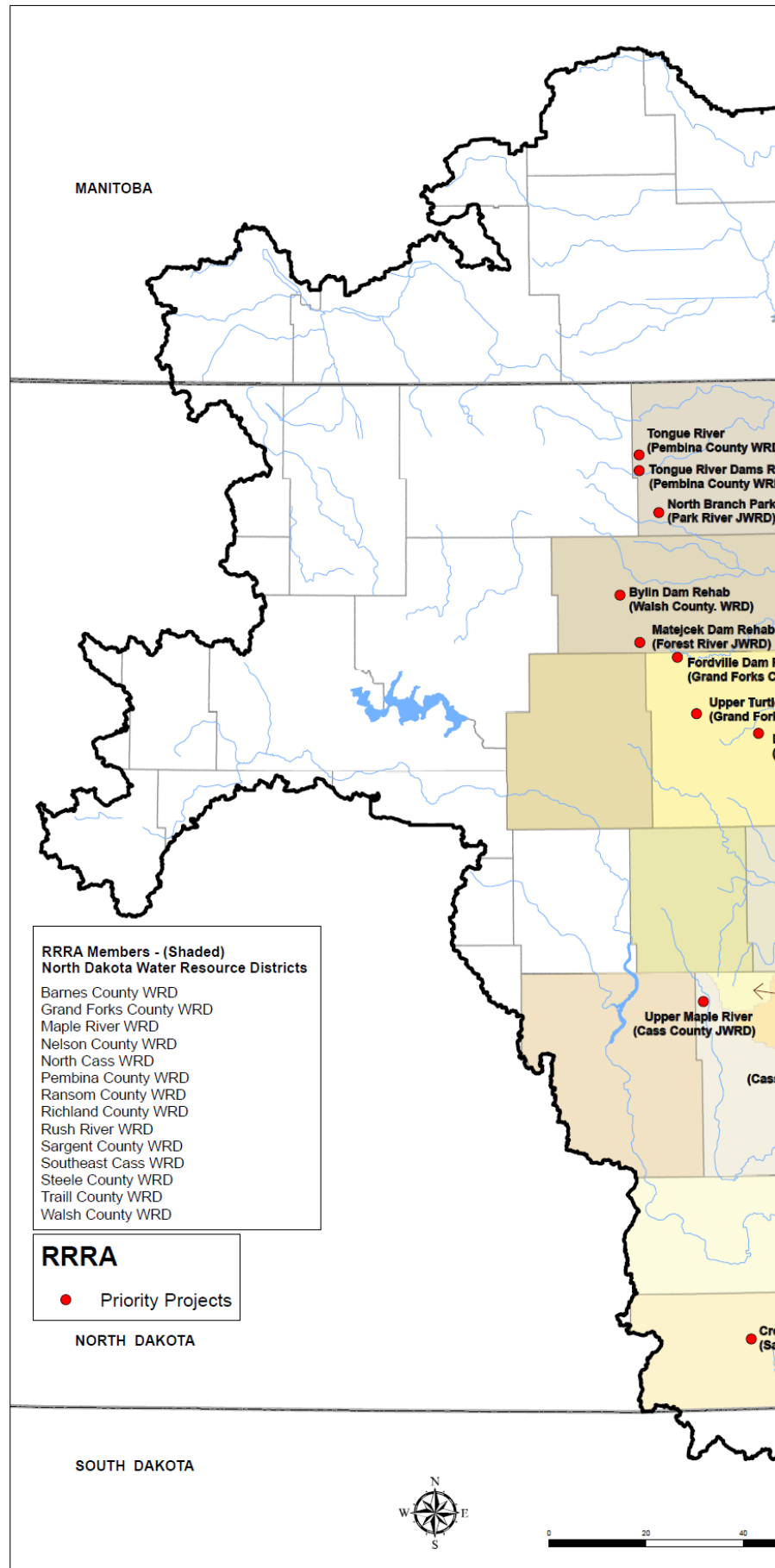
1120 28th Avenue North, Suite C, Fargo, ND 58102 Phone: 701-356-6644

The By-laws of the Red River Retention Authority (RRRA) state the Authority will prioritize retention projects in the Red River Basin (RRB). The following **2022** watershed project priority list is based on the project status and how close it is to being “shovel ready”. Is the planning done, land rights secured, permits secured, and adequate funds secured?

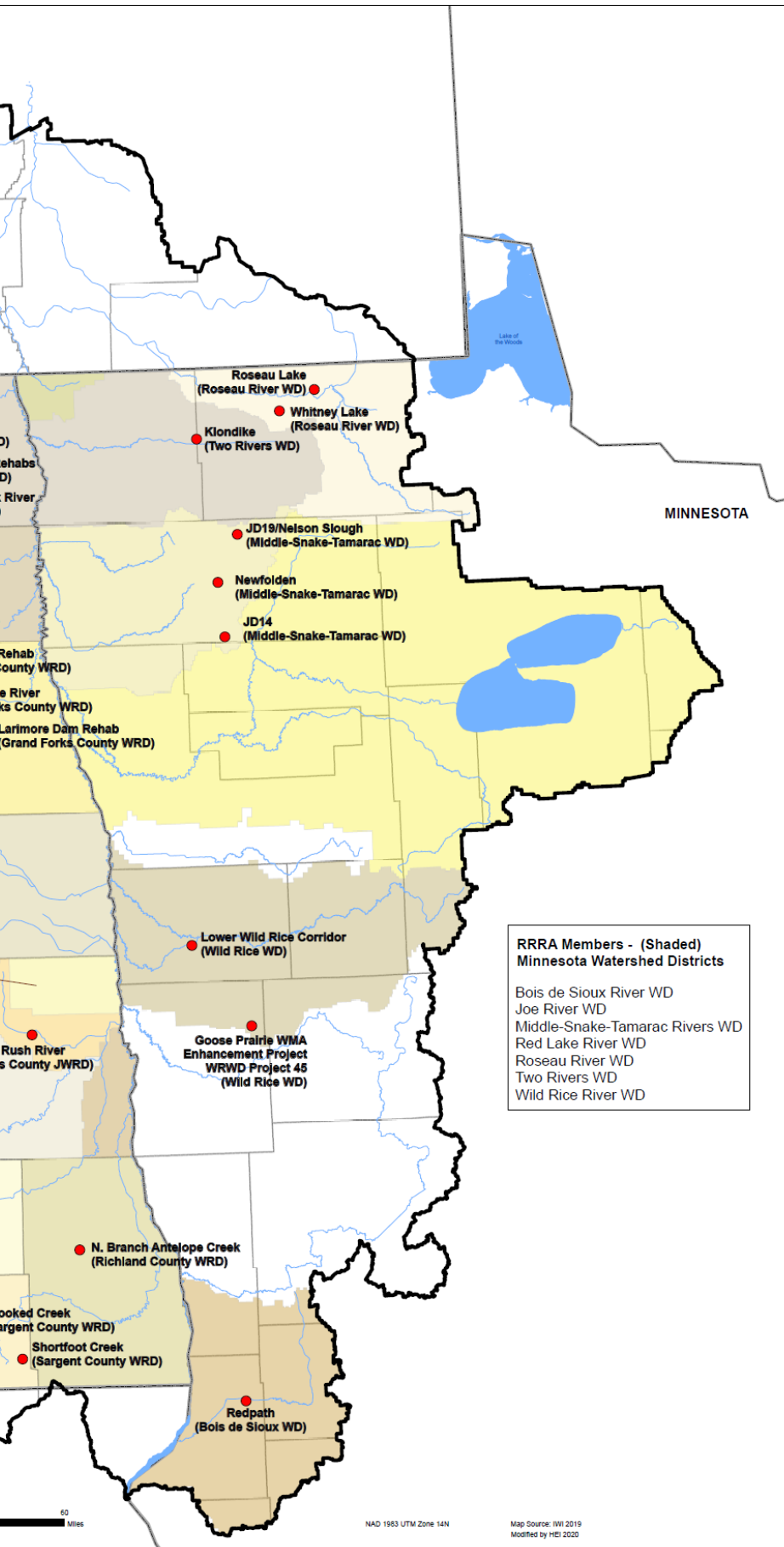
The top flood retention watershed projects recognized by the Red River Retention Authority for 2022 are:

- **Redpath (Bois de Sioux WD)** - Total cost \$34.6 M, RRWMB \$5.667 M, desired construction year 2022, expected construction - 48 months, Engineer’s Report 95%/Design 95%/Land Acquisition 99%/Environmental & Permitting 95% (WACA Complete/EAW Complete), Anticipate 100% shovel ready status by late fall of 2021. Bois de Sioux WD applied for funds from the Lessard – Sam’s Outdoor Heritage Fund for this project
- **Rush River (Cass County JWRD)** – This is a Regional Conservation Partnership Program (RCP) generated project, supported by the RRRA. Although not a retention project it does protect the city of Amenia. NRCS has worked with RRRA to complete project. NRCS has approved the watershed plan and has entered into a \$480,000 agreement with watershed sponsor to complete the final design. NED alternative is a 2.2 mile levee around the City of Amenia with interior stormwater pond and pump station. Construction cost estimate \$2.4 million.
- **Newfolden (Middle-Snake-Tamarac WD)** – Total cost \$7.7 M, RRWMB \$1.4 M, expected construction start in late 2021, preliminary engineering is complete. Land rights discussions in progress with existing landowners. Final design, plans, and specs are expected in early 2021. EAW, if needed, will be completed during a final design phase. Permits will be completed in a future phase.. Primary purpose is to remove the City of Newfolden from 100-yr. floodplain while contributing to the reduction of peak flows and volume to the Red River. Project proposers have been asked to apply for community protection funds through the state of MN. If received, it could reduce RRWMB funds needed. Total RRWMB commitment presently is \$2.4 million.
- **North Branch Park River (Park River JWRD)** – NRCS approved sponsor preferred plan. Final design agreement will be prepared. Design will take 12 to 18 months to complete. Preferred alternative is an off-channel impoundment with diversion from Cart Creek which provides 2,590 ac-ft storage at the auxiliary spillway crest, provides wetland enhancement for 513 acres of currently degraded wetlands, restores 70 acres of drained wetlands, and will provide substantial downstream water quality improvements (average annual reduction of 66% TP, 73% TN, 42% TSS). Estimate construction cost \$6.7 million. Landowners in that area have been pursuing assistance for many years.

- Tongue River (Pembina County WRD)** – This is a Regional Conservation Partnership Program (RCPP) generated project supported by the RRRRA. The project generates flood damage reduction through retention on the natural floodplain and within floodplain excavations, however its primary purpose is to halt the delivery of 55,000 tons/year of sediment and 84,000 lbs./year of phosphorus to the Renwick Dam reservoir. The watershed plan is under review at the NWMC currently, then address edits send revised plan to NHQ for review, edits made, then a FONSI issued, and 60-day public comment period completed. Upon plan authorization, Watershed Operations funding will be utilized for final design work. Project has a benefit-cost ratio of 4:1, has a construction cost of \$ 4.8 million. Final design in 2022, construction in fall 2022 or 2023, if grant funds can be secured.
- Goose Prairie WMA Enhancement Project – WRWD Project 45 (Wild Rice WD)** – Total cost \$1.9M, RRWMB Step 2 (5/2019) \$0.400 M, expected construction 2022 – 24 months to construct, Planning, Design and Permitting are nearly 95% complete, improves wildlife habitat in Goose Prairie Marsh (GP WMA); reduces risk of downstream flooding. The balance of funds is from the Wild Rice Watershed District (WRWD) and Minnesota state funds.
- Roseau Lake (Roseau River WD)** – Cost \$15M, RRWMB \$3.0 M, expected construction start in 2022 or 2023. First phase possibly completed in 12 months, much of land is public. Need to complete survey; then proceed with land acquisitions in late 2021 and early 2022. Concurrence Point 3 approved, EAW nearly ready to publish, Design 90% complete, Plans & specs. in preparation, Phased construction, starting on public lands, some landowners oppose, but project can begin while continuing to negotiate.



RRRA PRIORITY PROJECTS



- **Upper Maple River (Cass County JWRD)**

Draft watershed plan was submitted to ND NRCS, comments returned with needed edits. Given low cost/benefit ratio it was necessary to revise plan to include water quality and wildlife features in order to provide a basis for NED exception request. Biomass harvesting will be implemented as part of operations plan. After draft plan is completed, a request for NED exception, then submit for NWMC review, complete edits, submit for NHQ review, complete edits, issue FONSI and complete 60-day public comment period for authorization. Project involves two detention sites: #2A is a 2.3-mile-long embankment with gated release, total storage capacity 546.8 ac-ft, \$11.8 cost estimate and #5 is a 3.4-mile-long embankment with gated release, total storage capacity 1,340 ac-ft, \$13 million cost estimate. These structures may be implemented through a phased process.

- **Whitney Lake (Roseau River WD) - Site C** \$2M, Site A \$6M, (Drainage component funding will be local/private), RRWMB \$2.3 M, 2022 (Site C) – 12 months to construct, 2023 (Site A) - 12 months to construct, Site C has one landowner, willing to sell, WD preparing offer, Concurrence Point 3 approved, Needs onsite wetland delineation, but not complex. EAW possibly not necessary, design for site C at 60%. Project includes Site A, Site C, and drainage improvements. RRWMB commitment for Site C is \$675,000.

- **JD19/Nelson Slough (Middle-Snake-Tamarac WD)** – Estimated Cost \$8.3 M, expected construction start: 2023, estimated construction time: 1.5 construction year, Since DNR owns land and Marshall County owns JD#19, and the MSTRWD receives benefit from the flood control feature of the project, coordination on O&M plan has already started. EAW is being completed. Permitting - the Joint Permit application was submitted in June 2021. Funding - dependent on MNDNR's NRE fund. LSOHC - application to LSOHC will be submitted by April 2022. The remainder of funding needs anticipated from RRWMB, MSTRWD and Marshall Co.
- **Klondike (Two Rivers WD)** – Cost \$28.6 M, RRWMB \$7.2 M, expected Phase 1 construction 2023, expected Phase 2 construction 2024, expected Phase 3 construction 20254, Preliminary Eng.: 100%, Final Eng. 90%, ROW/land acq.: 60%, Operating plan: late 2021, Permitting/env. rev: 2022.
- **Shortfoot Creek (Sargent County WRD)** – RCPP watershed project in Sargent County. Low cost/benefit ratio necessitates a revision to plan to include water quality and wildlife features. Will be basis for NED exception. Prelim planning currently underway. Biomass harvesting will be implemented as part of operations plan. Project involves single detention site: #7 with gated release, total storage is 4,055 ac-ft, construction cost \$ 7.7 million.
- **JD14 (Middle-Snake-Tamarac WD)** - Cost: \$6.4M, desired alternative is selected, detail design is in process, EAW is out for public comment and the WD Board approved it, pending some of the comments to be addressed in the design/ permitting process. Project funding sources are expected to be MN FHM (50%), RRWMB (33%), MSTRWD (17%)
- **Tongue River Dams Rehab (Pembina County WRD)** – Supplemental watershed plan to rehabilitate Senator Young, Olson, and Bourbanis dams is progressing with an anticipated submittal of draft plan to NWMC March 2022, anticipated design February 2023.
- **Fordville Dam Rehab (Grand Forks County WRD)** – Supplemental watershed plan to rehabilitate Fordville Dam is progressing with an anticipated submittal of draft plan to NWMC March 2022. Watershed rehab funding will be used for final design in 2023-24, and then construct.
- **Larimore Dam Rehab (Grand Forks County WRD)** – Supplemental watershed plan to rehabilitate Larimore Dam is progressing with an anticipated submittal of draft plan to NWMC March 2022. Watershed rehab funding will be used for final design in 2023-24, and then construction.
- **Bylin Dam Rehab (Walsh County WRD)** – Supplemental watershed plan to rehabilitate Bylin Dam is progressing with an anticipated submittal of draft plan to NWMC May 2022. Watershed rehab funding will be used for final design in 2023-24, and construction when Sponsor is ready .
- **Matecjek Dam Rehab (Walsh County WRD)** – Supplemental watershed plan to rehabilitate Matecjek Dams is progressing. Project schedule delayed by 6 months to allow for supplemental geologic investigation. Plan authorization anticipated in February 2023.
- **NB Antelope Creek (Richland County WRD)** – RCPP watershed project in Richland County. Given low cost/benefit ratio it is necessary to revise prelim designs to include water quality and wildlife features. Necessary for basis for NED exception request.
- **Lower Wild Rice Corridor (Wild Rice WD)** – Cost TBD, planning underway. Some Lessard - Sam's Outdoor Heritage Council funding has been earmarked, but not yet received
- **Upper Turtle River Dam 10 (Grand Forks County WRD)** – Watershed Operations funds were approved by NRCS in 2020. Potential purposes of the dam include flood damage reduction, irrigation water (via surface storage or aquifer recharge basins), and/or recreation. Surveying, geotech investigation, H&H modeling for existing conditions complete. Anticipate completion of draft plan in 2023.
- **Crooked Creek (Sargent County WRD)** – Watershed Operations funds approved by NRCS in 2021 for a new watershed planning start. Flood damage reduction, watershed protection, and/or recreation expected to the project purpose. Anticipate completion of draft plan in 2023.