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## **GARRISON DIVERSION CONSERVANCY DISTRICT** **STATUS REPORT ON THE** **RED RIVER VALLEY WATER SUPPLY PROJECT**

*Garrison Diversion is the co-lead representing the State of North Dakota on the Red River Valley Water Supply Project Environmental Impact Statement (EIS). This update is provided on a regular basis to all state agencies. If you would like additional information, please contact us at [gddcd@daktel.com](mailto:gddcd@daktel.com), 800-532-0074 or go to [www.garrisondiversion.org](http://www.garrisondiversion.org).*

### **Environmental Impact Statement**

- The Secretary of Interior signed a memorandum on January 15 that disclosed the following:
  - The project selected to meet the needs of the Red River Valley is the Preferred Alternative, a pipeline from the McClusky Canal to Lake Ashtabula; and,
  - The identified treatment processes are adequate to meet the requirements of the Boundary Waters Treaty.
- The Final EIS was available to the public on December 28, 2007.

### **Lake Agassiz Water Authority**

- The next meeting of the LAWA Board is scheduled for December 8.

### **Pre-final Design Effort**

The following is a summary of the ongoing efforts on the task orders:

**Right-of-Way:** The property owner information on the proposed right-of-way has been collected. There are approximately 264 parcels with 177 landowners that will need to be negotiated. To date, 119 landowners have signed option agreements. In Sheridan County, 27 of 32 landowners have signed; Wells County 19 of 53 landowners have signed; Foster County 45 of 58 landowners have signed; and Griggs County 28 of 34 landowners have signed.

Garrison Diversion has met with local landowners and listened to several concerns. In response to this input, the Crop Damage Payment Policy and some of the conditions in the easement were revised and approved by the Garrison Diversion Board of Directors on October 16. These revisions clarified Garrison Diversion's intentions and commitments to assure that the project is constructed in a way that minimizes the impacts to the agricultural lands. These revised documents have been mailed to the remaining landowners. A meeting was requested by some landowners and has been scheduled for December 15 to answer any remaining questions on the new documents.

**Permitting and Environmental Services:** Crews have completed collecting field data on the parcels with access agreements. The US Fish and Wildlife Service has identified the parcels with wetland easements, and field surveys of the wetland easements have been completed. The determination of wetlands under the jurisdiction of the Corps of Engineers was completed by the Corp of Engineers, and notice was given to Garrison Diversion via letter dated November 23, 2009. These wetlands will be field verified in the next two weeks if weather permits.

The team is currently drafting permit applications for all of the permits required for the project.

**Operational Plan:** On November 2, Garrison Diversion met with the ND Game and Fish Department and the State Water Commission to discuss the project's operation related to aquatic flows. A meeting is scheduled for December 4 to brief Reclamation on the Draft Operational Plan.

The next workshop is scheduled for December 8.



**Preliminary Design:** Work on engineering evaluations regarding the preliminary design is approximately 75% complete, and the team is drafting the preliminary engineering report.

**Current & Upcoming Activities:**

- The design team is currently working on the following issues:
  - **Technical Memorandums (TM) that have been issued as final draft:**
    - TM1 - Trenchless crossings methods & schedule
    - TM2 - Pipe hydraulic model & pipe diameter selection
    - TM3 - Location of bedding materials study
    - TM4 - Pipeline scour studies (at three river/creek crossings)
    - TM5 - Pipe material, lining & wall thickness
    - TM6 - Pipe minimum cover depth
    - TM7 - Leak detection & monitoring
    - TM8 - SCADA system
    - TM10 - Pressure control stations
    - TM11 - Line valves & turnouts
    - TM13 - Air/vacuum controls & blowoffs
    - TM15 - Owner pre-purchase alternatives evaluation
    - TM18 - Realignment Feasibility Evaluation for Crossing Sections Diagonally
  - **Technical Memorandums that are currently being developed:**
    - TM9 - Discharge structure location & configurations
    - TM12 - Corrosion Control Plan
    - TM14 - Trenchless Crossing Methods
    - TM15A - Pipe Manufacturer Preselection
    - TM16 - Construction Phasing Alternatives Evaluation
    - TM17 - Preliminary Transient/Surge Model
    - TM19 - Specifications for Reclaiming Ag Lands
  - Refining the pipeline alignment is completed
  - Geotechnical investigation of the pipeline route
  - Utility potholing has been discontinued for the season and will be completed next spring.
  - GIS based data management system
  - Preliminary water quality investigation

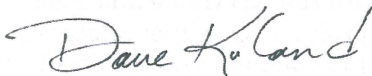
Contracts have been issued to complete the geotechnical evaluations and the pothole utility locations; this work is approximately 60% complete.

**State Agencies**

- Garrison Diversion has met with the State Water Commission, ND Department of Health, and the ND Game and Fish to brief them on the upcoming efforts to develop the operational plan.

**Schedule**

- The next steps are to get authorization from Congress and to obtain a Record of Decision from the lead federal agency. Garrison Diversion, the State Water Commission and the Governor's office are working with the Congressional Delegation to move these efforts forward.



Dave Koland, General Manager

**RED RIVER VALLEY WATER SUPPLY PROJECT**  
**2010 WORK PLAN**  
**11-25-09**

**Project Status:**

On December 5, 2008, the Secretary of the Interior transmitted to Congress his selection of a project to meet the long-term water needs of the Red River Valley. The Report to Congress selected the GDU Import to the Sheyenne River Alternative as the proposed Red River Valley Water Supply Project (RRVWSP). The alternative selected was the same alternative recommended by the local affected communities and the State of North Dakota. Because the selected alternative is a Missouri River import alternative, congressional authorization is required for the use of Missouri River water. The North Dakota congressional delegation is currently working towards obtaining this authorization.

The Garrison Diversion Conservancy District (GDCCD) board of directors and the Lake Agassiz Water Authority (LAWA) board of directors unanimously approved a 2009 RRVWSP work plan to continue development of the project. The major work items consisted of: 1) development of an overall draft operational plan, 2) acquisition of options for right-of-way for the pipeline, 3) permitting and environmental surveys, 4) preliminary design, and 5) financial planning.

The 2009 work plan efforts complete the planning necessary to proceed with final design once authorization is obtained from Congress. This effort will greatly enhance the accuracy of any testimony given to Congress. The Report to Congress stresses that the cost estimate is at an appraisal level and should not be relied on for congressional appropriations. Completing the work plan will document a more accurate cost estimate.

The North Dakota State Water Commission approved funding for the 2009 work plan on March 17, 2009. The right-of-way effort to obtain options for easements will be completed by the end of 2009. The draft operational plan, permitting and environmental services, and preliminary design efforts will be completed by April 1, 2010. Additional work on the financial plan was not started in 2009.

**Overview of 2010 Work Plan:**

- Complete the remainder of the 2009 work plan efforts
  - draft operational plan
  - permitting and environmental services
  - preliminary design efforts
  - refine the financial plan
- Review the preliminary design efforts and the draft operational plan through a value engineering process with the Bureau of Reclamation (Reclamation)
- Continue efforts to get a Record of Decision issued
- Initiate the following efforts if a Record of Decision is issued
  - submit permit applications
  - final design
  - develop agreements with Reclamation
- Support the congressional delegation to obtain authorization
- Prepare for the 2011 North Dakota legislative session
- Provide support for the Lake Agassiz Water Authority



### **Completion of 2009 work plan efforts:**

- Operational Plan Task Order - The objective of this task order is to develop an overall draft operational plan for delivering the project water through the Sheyenne River and Red River systems to the contracted end users. The plan will include key triggers for operating the pipeline delivery system, accounting for gains and losses of water in Lake Ashtabula and the river systems, and accounting for the delivery of water to the end user. A key feature of the plan will be the development of a water accounting system. This system will ensure all of the mandated environmental obligations are met and existing rights within the Sheyenne and Red Rivers are protected and coordinated with the delivery of project water to the end users.

These services will include the collection of existing data, along with reports and documents from agencies that regulate, manage, or use the Sheyenne and Red River systems. In addition, it will require coordination with project end users, as well as local, state, and federal agencies. This project will be an extension of the Reclamation operational assumptions developed as a part of the RRVWSP.

- Permitting and Environmental Services Task Order - The purpose of this task order is to detail the permitting and environmental services required to gain approval for the construction of the pipeline and its appurtenances. This includes identifying all requirements and mitigations under the Final Environmental Impact Statement (FEIS) and developing the means for implementation. The primary goal of this task is to contact all agencies affected, negotiate any approval issues, and develop all permit request documents so they are ready for submittal by the end of the preliminary engineering task. This includes items such as 404 permits with the Corps of Engineers, Class 3 historic properties survey and consultation with the State Historic Preservation Officer (SHIPO), and permits for road and utility crossings.
- Preliminary Design Task Order - The purposes of this task order are to gather information regarding the site and installation conditions and to define the basic design parameters of the pipeline project; then the detailed design phase can proceed efficiently and without rework. Site information needed includes: subsurface geotechnical conditions, known buried utilities, and minor supplemental survey data. Basic design parameters include: pipe materials, pipe size, final horizontal alignment, trenchless crossings, corrosion control strategy, installation characteristics (including bury depth), embedment materials, external loads, pressure control strategy, hydraulic profile, turnout and isolation valve locations, and instrumentation and control (I&C) strategy.
- Refine the financial plan - This task will provide rate modeling and legal services to draft and negotiate water service contracts once the draft operational plan, the preliminary design and the Value Engineering Review are completed. Once the water service contracts have been developed, the next step will be to get a stronger commitment from the water users in their willingness to participate. This commitment is needed to prepare for issuing revenue bonds once there is a Record of Decision or authorization from Congress.

**Value Engineering Review** - This effort is a standard process that Reclamation uses to review projects to ensure that they are properly designed and that they are the best value for the federal government. It generally takes three months to complete and entails a four-step process. The four steps include: 1) the preliminary design report and supporting documentation are sent

to the identified participants in advance of the review to give them time to prepare: 2) the reviewers convene for a five-day meeting where the original authors present the project, and the reviewers discuss the project and make recommendations: 3) the recommendations are then compiled and sent to the project sponsor; and 4) the project sponsor responds to the comments and makes appropriate changes.

**Continue Efforts to Obtain a Record of Decision** - This effort is ongoing and includes such items as answering comments submitted on the project, assisting in briefings of the Secretary of the Interior, and visits to promote the decision.

**Efforts Following the Record of Decision -**

- Submit Permit Applications – This effort will include any last minute revisions and final submittal of the applications for permits.
- Final Design - Following the Value Engineering Review and with a Record of Decision issued, the next step in preparation for construction is to complete the final design, including plans and specifications. This is approximately a one-year process.
- Develop Agreements with Reclamation - These would include an agreement to construct the project and a repayment contract with Reclamation.

**Support Congressional Delegation Efforts to Obtain Authorization** - This effort includes providing technical information to the delegation to use in deliberations, briefing the staff on issues, and visits to gather support for the project.

**Preparation for the 2011 North Dakota Legislative Session** - Continued support in the next legislative session is critical to the success of the project. Because of recent events, flood control is going to be a major topic at the next session. It is recognized that flood control is important to the vitality of the Red River Valley. Water supply is also a vital need to be addressed to ensure that the region will continue to grow and prosper. As pointed out in the Final Environmental Impact Statement, the negative impact of not solving the water supply problem in the Red River Valley is \$2 billion each year if a drought similar to the 1930s occurs. It is important that the water community continues to develop a unified voice that addresses all of the water needs, including water supply.

Efforts to ensure that the RRVWSP remains important to the legislature in the next session will include early identification of the funding needs for the project in the 2011-2013 biennium, public awareness efforts of the need for the project and the identified solution, and liaison efforts with regional and state leaders, legislators, and the governor's office.

**Provide support for the Lake Agassiz Water Authority (LAWA)** – It is anticipated that the LAWA will meet quarterly in 2010. Garrison will provide the administrative and technical services required to facilitate these meetings. In addition the water quality sampling efforts will continue.



Red River Valley Water Supply Project  
Expenditure Report  
12/7/2009

	2000-2009	2003-2007		2008		2009 through 11-30-09			2000-2009
	Federal Funds	GDCD Funds	LAWA Funds	GDCD Funds	LAWA Funds	GDCD Funds	LAWA Funds	State Funds	Total Cost
Environmental Impact Statement	\$17,217,560	\$1,068,260	\$349,508						\$18,635,328
LAWA Engineering Support				\$19,873		\$33,790			\$53,663
Legal				\$17,362	\$15,299	\$34,535			\$67,196
Financial Planning				\$20,600		\$13,460			\$34,060
Consultants				\$24,000		\$16,000			\$40,000
Meetings, Misc				\$8,924	\$4,965	\$10,338	\$6,168		\$30,395
Water Quality Monitoring					\$29,151		\$21,518		\$50,669
OMB Response						\$35,201			\$35,201
Right of Way							\$42,264	\$380,377	\$422,641
Option Payments							\$19,140	\$172,258	\$191,398
Permitting							\$35,739	\$321,647	\$357,386
Operational Plan							\$43,571	\$392,138	\$435,709
Prefinal Design						\$106,334		\$957,007	\$1,063,341
<b>Total Cost</b>	<b>\$17,217,560</b>	<b>\$1,068,260</b>	<b>\$349,508</b>	<b>\$90,759</b>	<b>\$49,415</b>	<b>\$143,324</b>	<b>\$274,734</b>	<b>\$2,223,428</b>	<b>\$21,416,987</b>

\$21,416,987

Total Recap:

Reclamation Funds	\$17,217,560
State Funds	\$2,223,428
GDCD Funds	\$1,302,343
LAWA Funds	\$673,657
	<u>\$21,416,987</u>

Key:

Federal - United States Bureau of Reclamation  
State - North Dakota State Water Commission  
GDCD - Garrison Diversion Conservancy District  
LAWA - Lake Agassiz Water Authority

Agreement for the Joint Exercises of Governmental Powers  
Between the  
North Dakota State Water Commission and the  
Garrison Diversion Conservancy District  
Concerning the  
Municipal, Rural, and Industrial Water Systems Program and the  
Red River Valley Water Supply Project  
Authorized by Public Law 106-554

1. This agreement is between the North Dakota State Water Commission (Commission) and Garrison Diversion Conservancy District (District), concerning the Municipal, Rural, and Industrial (MR&I) water program authorized by § 7, Public Law 106-554, and the Red River Valley Water Supply Project authorized by § 8, Public Law 106-554 (the Dakota Water Resources Act of 2000).
2. This agreement is authorized by North Dakota Century Code (NDCC) 54-40.3 and §§ 61-02-24.1 and 61-24-08.
3. The Commission has the authority under NDCC § 61-02-14 to supply water for MR&I purposes throughout the State of North Dakota. The District has the authority under NDCC § 61-24-08 to supply water within the District. The Commission and the District also have the authority, under NDCC §§ 61-02-14 and 61-24-08 to cooperate or contract with the United States (or any agency of the United States) to supplying MR&I water in North Dakota.
4. It is the intent of the parties to carry out a process for the expeditious and efficient submission of proposals to the Secretary of the Interior for the funding of "municipal, rural, and industrial water systems to serve areas throughout the State of North Dakota," § 7, Public Law 106-554. This agreement also provides a mechanism for using the resources of both the Commission and the District to quickly and efficiently improve the supply of MR&I water throughout the State of North Dakota.
5. The District shall execute a cooperative agreement with the Secretary of the Interior, pursuant to Public Law 106-554, to carry out the MR&I provisions and the Red River Valley Water Supply Project provisions for the State of North Dakota. The District shall, among other things, be the fiscal agency for the State of North Dakota concerning money received from and payments made to the United States for the MR&I program and Red River Valley Water Supply Project authorized by Public Law 106-554. The District will consult regularly with the Governor to be sure that the Governor, Commission, and other State agencies are informed regarding the status of the Red River Valley Water Supply project. The State Engineer will continue to be responsible for interstate, international, and general policy issues.
6. The Commission and the District shall assist to the extent funds are available to the Commission and the District, the preparation of feasibility studies by entities seeking funding of MR&I systems. The State Engineer shall establish guidelines for construction standards and the preparation of feasibility studies. The District shall request funds from the Secretary of the Interior for feasibility studies, which may be cost-shared by the Commission and the District.



Agreement for Joint Exercises of Government Powers  
Page Two

7. Proposed MR&I water projects must be consistent with statewide plans and programs of the Commission. Therefore, plans for proposed MR&I water projects must be submitted to the State Engineer for approval.
8. Entities seeking funding of MR&I water systems may apply for non-federal cost-share funds from the Commission and the District. Funding requests to the District shall be submitted to the District Manager. Funding requests to the Commission shall be submitted to the Secretary of the Commission. For the purposes of this agreement, the term "project" in N.D.C.C. § 57-51.1-07.1 is construed to include the MR&I program authorized in Public Law 106-554.
9. Proposed MR&I projects that are recommended by the District and the Commission shall be submitted by the District to the Secretary of the Interior for funding pursuant to § 7, Public Law 106-554. The sources of non-federal cost-share funds must be identified when the projects are submitted for funding to the Secretary of the Interior.
10. To ensure a proper scheduling of funding requests to the Secretary of the Interior, the District and the Commission shall jointly develop and annually update a five-year plan for future funding of MR&I water projects in North Dakota. The District Manager and the Secretary of the Commission shall jointly develop and submit a five-year budget plan and the updates for the benefit of the Commission and the District.
11. This agreement shall be effective until modified in writing attached thereto by the Commission and the District.

NORTH DAKOTA STATE WATER  
COMMISSION

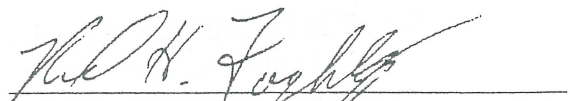
By:

  
GOVERNOR JOHN HOEVEN  
Chairman

Aug. 19, 2002  
Date

GARRISON DIVERSION CONSERVANCY  
DISTRICT

By:

  
RICHARD FUGLEBERG  
Chairman

9-9-02  
Date

**GARRISON DIVERSION SERVANCY DISTRICT**  
**MR&I Project Construction Report**  
**Federal and State Funding**  
**November 30, 2009**

	<u>1</u> <u>Prior</u>	<u>2</u> <u>2009</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
	<u>MR&amp;I Fund</u>	<u>MR&amp;I Fund</u>	<u>Funding Source</u>			<u>State</u>	<u>Federal</u>
	<u>Expenditures</u>	<u>Expenditures</u>	<u>Grant</u>	<u>MR&amp;I Fund</u>	<u>Total Funds</u> <u>Approved</u>	<u>Grant</u> <u>Remaining</u>	<u>MR&amp;I Fund</u> <u>Remaining</u>
All Seasons WUD-System V	\$6,091,450.00	\$0.00	\$200,000	\$6,091,450	\$6,291,450	\$200,000	\$0.00
All Seasons WUD-Upham	\$12,707.84	\$451,267.44	\$128,000	\$492,000	\$620,000	\$128,000	\$28,024.72
Garrison Water Treatment	\$70,428.05	\$721,827.39	\$0	\$1,368,000	\$1,368,000	\$0	\$575,744.56
Tri-County WD-Lakota	\$456,866.66	\$124,995.71	\$208,000	\$492,000	\$700,000	\$118,135	\$3.00
LaMoure	\$500,000.00	\$0.00	\$500,000	\$0	\$500,000	\$0	\$0.00
McKenzie County Rural Water	\$1,401,891.17	\$0.00	\$900,000	\$628,240	\$1,528,240	\$126,349	(\$0.27)
NAWS II-Minot	\$32,446,713.79	\$11,993,131.65	\$1,300,000	\$52,247,408	\$53,547,408	\$1,300,000	\$7,807,562.74
North Central-South Benson	\$227,500.00	\$433,909.88	\$916,000	\$984,000	\$1,900,000	\$916,000	\$322,590.12
North Central-Anamoose	\$0.00	\$64,719.14	\$3,295,000	\$3,905,000	\$7,200,000	\$3,295,000	\$3,840,280.86
Parshall	\$0.00	\$0.00	\$1,750,000	\$0	\$1,750,000	\$1,750,000	\$0.00
Ramsey County Rural Water	\$9,239,075.59	\$0.00	\$5,540,543	\$3,738,206	\$9,278,749	\$27,628	\$12,045.29
South Central RWD-ARRA	\$0.00	\$96,336.43	\$0	\$19,810,000	\$19,810,000	\$0	\$19,713,663.57
South Central RWD-Phase I	\$1,918,000.00	\$179,298.44	\$1,918,000	\$2,952,000	\$4,870,000	\$0	\$2,772,701.56
South Central RWD Phase II	\$1,068,208.69	\$3,318,039.84	\$2,350,000	\$7,150,000	\$9,500,000	\$2,350,000	\$2,763,751.47
South Central RWD-Emmons 1	\$0.00	\$0.00	\$0	\$8,800,000	\$8,800,000	\$0	\$8,800,000.00
SWPP-OMND WTP-ARRA	\$0.00	\$78,668.07	\$0	\$11,900,000	\$11,900,000	\$0	\$11,821,331.93
SWPP-MB3/OMND2	\$2,372,250.00	\$0.00	\$0	\$2,372,250	\$2,372,250	\$0	\$0.00
SWPP-Mckenzie County P3	\$563,334.72	\$947,859.55	\$0	\$1,563,750	\$1,563,750	\$0	\$52,555.73
SWPP-Hazen/Zap	\$0.00	\$30,828.28	\$3,000,000	\$7,800,000	\$10,800,000	\$3,000,000	\$7,769,171.72
SWPP-OMND Service Area	\$0.00	\$0.00	\$0	\$8,800,000	\$8,800,000		\$8,800,000.00
Trall Regional Rural Water I	\$105,576.98	\$2,405,677.21	\$3,167,000	\$984,000	\$4,151,000	\$1,639,746	\$0.00
Trall Regional Rural Water II	\$0.00	\$1,287,697.82	\$2,411,500	\$0	\$2,411,500	\$1,123,802	\$0.00
Trall Regional Rural Water III	\$0.00	\$0.00	\$1,300,000	\$0	\$1,300,000	\$1,300,000	\$0.00
Walsh Rural Water District II	\$670,147.10	\$313,852.90	\$16,000	\$984,000	\$1,000,000	\$0	\$0.00
Washburn	\$0.00	\$0.00	\$1,500,000	\$0	\$1,500,000	\$1,500,000	\$0.00
Williston	\$5,000,000.00	\$0.00	\$3,032,000	\$1,968,000	\$5,000,000	\$0	\$0.00
<b>Total</b>	<b>\$62,144,150.59</b>	<b>\$22,448,109.75</b>	<b>\$33,432,043</b>	<b>\$145,030,304</b>	<b>\$178,462,347</b>	<b>\$18,774,659</b>	<b>\$75,079,427.00</b>
					\$178,462,347		



**GARRISON DIVERSION CONSERVANCY DISTRICT**  
**MR&I Project Construction Report**  
**Water Development and Research Fund (WDRF)**  
**November 30, 2009**

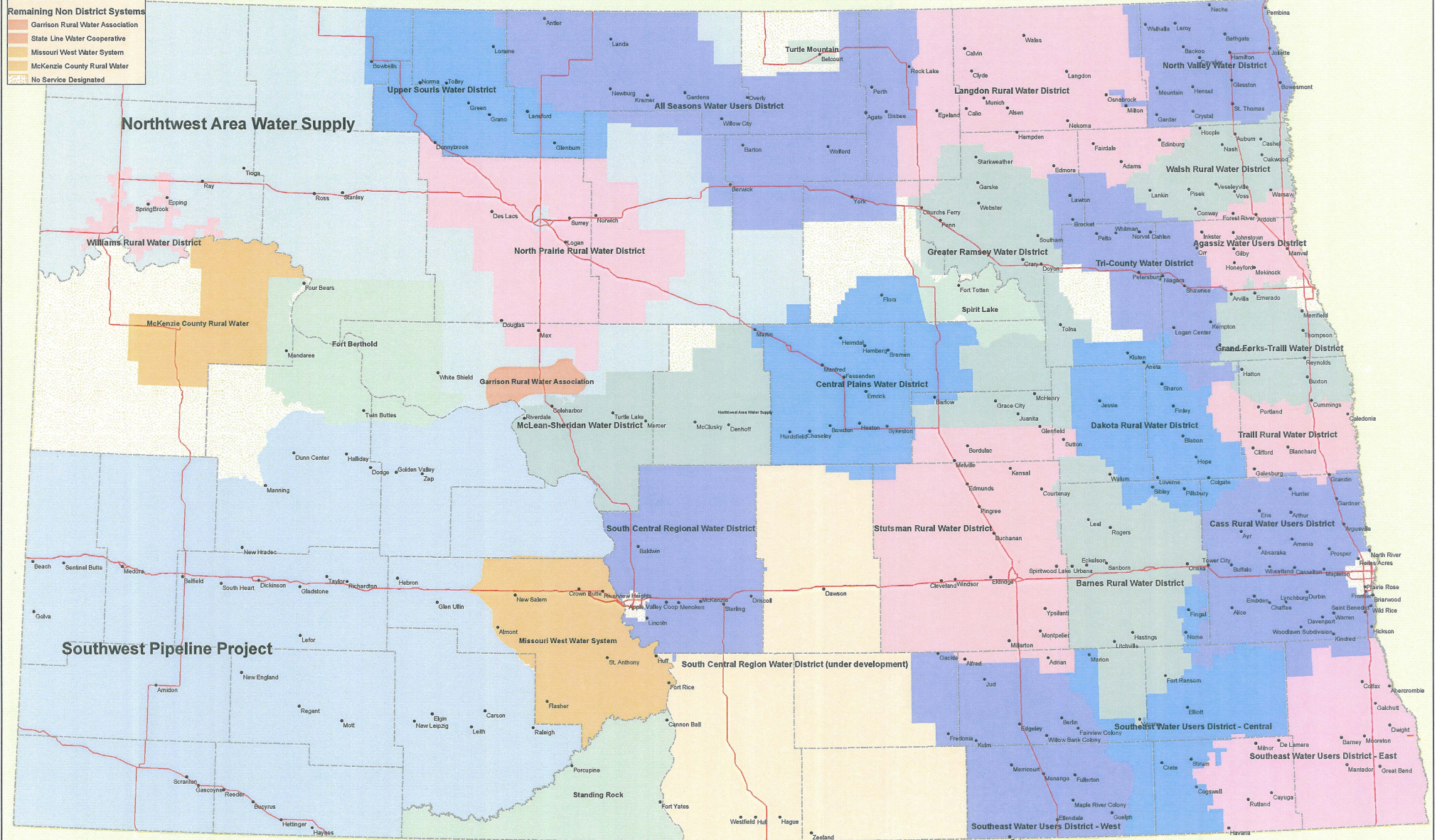
<u>Water Development and Research Fund (WDRF)</u>	<u>8</u> <u>Prior</u>	<u>9</u> <u>2009</u>	<u>10</u> <u>Funding Source</u>	<u>11</u>	<u>12</u>	<u>13</u> <u>State</u>
	<u>State WDRF</u>	<u>State WDRF</u>	<u>State WDRF</u>		<u>Total Funds</u>	<u>WDRF Approved</u>
	<u>Expenditures</u>	<u>Expenditures</u>	<u>Approved</u>		<u>Approved</u>	<u>Remaining</u>
All Seasons System IV	\$19,341.00	\$0.00	\$32,000		\$32,000	\$12,659
All Seasons System V	\$802,896.82	\$0.00	\$870,000		\$870,000	\$67,103
Barnes Rural Water-Wimbledon	\$0.00	\$42,195.25	\$70,000		\$70,000	\$27,805
Carrington	\$12,025.00	\$15,600.00	\$27,625		\$27,625	\$0
LaMoure	\$343,307.89	\$26,187.64	\$500,000		\$500,000	\$130,504
McKenzie County Rural Water	\$331,990.40	\$0.00	\$360,000		\$360,000	\$28,010
NAWS II-Minot	\$856,351.63	\$0.00	\$0		\$0	\$0
Park River Water System	\$550,000.00	\$0.00	\$550,000		\$550,000	\$0
Ramsey County Rural Water	\$258,203.01	\$0.00	\$292,250		\$292,250	\$34,047
Walsh Rural Water District	\$750,000.00	\$0.00	\$750,000		\$750,000	\$0
Williams Rural Water-Tioga	\$0.00	\$0.00	\$65,000		\$65,000	\$65,000
<b>Total</b>	<b>\$3,924,115.75</b>	<b>\$83,982.89</b>	<b>\$3,516,875</b>		<b>\$3,516,875</b>	<b>\$365,128</b>

11/29/09 2:50 PM



# North Dakota Regional Water Systems

- Legend**
- CITIES Served**
- Cities Served
- Remaining Non District Systems**
- Garrison Rural Water Association
  - State Line Water Cooperative
  - Missouri West Water System
  - McKenzie County Rural Water
  - No Service Designated





December 2009

**Garrison Diversion Unit-Municipal, Rural, and  
Industrial Water Supply Program  
Project Update**

The following report is for the Garrison Diversion Unit Municipal, Rural, and Industrial (MR&I) Water Supply Program.

**All Seasons Water Users District System I (Upham Water Supply)** - The city of Upham was in violation of the arsenic rule using their old water supply and to come into compliance made a connection to All Seasons Water Users System 1. The estimated cost to connect to All Seasons is \$825,765. The approved funding is in the form of a 75% grant of eligible costs, not to exceed \$620,000, with \$492,000 from federal MR&I funds and \$128,000 from the State Water Commission Contract Fund.

**City of Garrison Water System** - The city of Garrison has problems with their water quality with the fluctuating lake levels. To address these issues and regulatory upgrades, the City is integrating their control system, upgrading from an acid feed pH adjustment system to a carbon dioxide system, and adding a 290,000 gallon water storage reservoir. The City is looking at maintaining the present lime softening and media filtration treatment process. The estimated project cost is \$1.9 million. The approved funding is in the form of a 75% federal MR&I grant of eligible costs, not to exceed \$1,368,000.

**North Central Rural Water Consortium** - The North Central Rural Water Consortium II was formed with Central Plains Water District, which now includes the South Benson County area, and North Prairie Rural Water District. The South Benson rural water project area will finish the area that remains after finishing All Seasons Water Users System 5, Langdon Rural Water and Greater Ramsey Water District. The general area is from the cities of Esmond to Minnewaukan. Central Plains will supply the water to serve approximately 100 users with an estimated total cost of \$2,925,000. The approved funding is in the form of a 65% grant of eligible costs, not to exceed \$1,900,000, with \$984,000 from the federal MR&I funds and \$916,000 from the State Water Commission Contract Fund.

The Anamoose/Benedict project area involves North Prairie providing service to Anamoose, Benedict, and 250 rural users with a total estimated cost of \$10.286 million. The approved funding is in the form of a 70% grant of eligible costs, not to exceed \$7.2 million, with \$3,905,000 from the federal MR&I funds and \$3,295,000 from the State Water Commission Contract Fund.



## **Garrison Municipal, Rural, and Industrial Water Supply Program**

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**Northwest Area Water Supply - (NAWS)** – Construction is focusing on providing water to areas around Minot, including Berthold, Kenmare, Mohall, and other cities. As part of this effort, the State Water Commission awarded Contract 4-2A - High Service Pump Station, which is located in Minot and has an estimated total cost of \$14.5 million. Also, progressing are the pipelines to the Kenmare-Upper Souris and Mohall-All Season with an estimated total cost at \$15.9 million. The approved funding is in the form of a 65% federal MR&I grant of eligible costs, not to exceed \$18.11 million.

The 2010 project will include the Minot Air Force Base-Upper Souris Pipeline with an estimated total cost at \$17.5 million. The approved funding is in the form of a 65% grant of eligible costs, not to exceed \$7.67 million from Federal FY10 MR&I funds.

**South Central Regional Water** - Phase 1 involves a water supply north of Bismarck using horizontal angle wells under the riverbed of the Missouri River, a water treatment plant, and new bulk service to Wilton. Service will continue to the existing 3,550 rural users and 10 bulk South Central water users. The estimated cost of Phase 1 is \$16.7 million. The approved funding is in the form of a 31% grant of eligible costs, not to exceed \$4.87 million, with \$2.952 million from federal MR&I funds and \$1.918 million from the State Water Commission Contract Fund.

Phase II provides water to rural users in Burleigh County. The project adds water storage and pipelines for service to 770 rural users. Estimated cost of Phase 2 is \$18.2 million. The approved funding is in the form of a 53% grant of eligible costs, not to exceed \$9.5 million, with \$7.15 million from federal MR&I funds and \$2.35 million from the State Water Commission Contract Fund.

The American Recovery and Reinvestment Act Of 2009 (ARRA) provided funding for the first phase of the regional water system to serve Emmons, McIntosh, Logan, and Kidder counties. Design started in 2009 and construction is to begin in the spring of 2010. The project involves a new water supply 15 miles west of Linton from Lake Oahe. The project includes a series of sloped tubes with submersible pumps for the intake, construction of a new water treatment plant, a new water storage reservoir, and construction of the main transmission pipeline with new bulk service to Linton, Hazelton, and Strasburg. Estimated cost is \$23.3 million. Also funded was the north Burleigh water treatment plant Phase 2, which upgrades the plant to a capacity of 2.5 million gallons per day, with an estimated cost of \$4.2 million. The approved funding is in the form of a 75% ARRA grant of eligible costs, not to exceed \$20 million.

The 2010 project involves Emmons Phase 1 with an estimated cost of \$12.1 million and involves 349 miles of 1.5" to 8" pipeline for 380 rural users and makes service available to Hauge, Braddock and a supplement to State Line Water Cooperative. The approved funding is in the form of a 75% grant of eligible costs, not to exceed \$8.8 million from Federal FY10 MR&I funding.



## **Garrison Municipal, Rural, and Industrial Water Supply Program**

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**Southwest Pipeline Project** – McKenzie County Rural Water Phase III is part of the Southwest Pipeline Project, and that portion of the Grassy Butte area would serve 82 users. The water supply is from the Medora Beach Service Area Phase 3. Funding for the Southwest Pipeline Project includes funding for Phase III, West Killdeer service area in Dunn County, Trotters Pocket, and Fairfield Reservoir. The total estimated cost is \$2,240,000, and the allocated federal MR&I grant was \$1,563,750.

The Oliver, Mercer, and North Dunn Service Area started with construction of the Beulah Interim Service Area, with 60 rural users. The city of Zap was added to the system and will be supplied with water purchased from the city of Beulah until this project can be supplied by the future water treatment plant planned within the Oliver, Mercer, North Dunn Regional Service Area. The overall project will serve the cities of Center, Hazen, Stanton, and Zap and 1,200 rural customers. Design started on \$15.7 million water treatment plant and construction to begin in the spring of 2010. The approved funding was in the form of a \$12 million ARRA grant for the water treatment plant. Also the design started on \$2.4 million Zap water storage tank and the \$6.6 million 23 mile main transmission pipelines to Hazen and Zap with construction to begin in the spring of 2010. The allocated federal MR&I grant is \$7.8 million.

The projects for 2010 include the \$3.8 million, 27 mile, 6" to 14", Hazen to Stanton main transmission line and Phase 1 of the \$5.1 million Zap service area. The approved funding is in the form of a 100% grant of eligible costs, not to exceed \$8.8 million from Federal FY10 MR&I funding.

**Traill Rural Water District Regional Water Supply** - Traill Rural Water District conducted a water study for a regional system to meet the water needs of Traill County Rural users of Hillsboro, Mayville, Galesburg, Grandin, and address future EPA water quality regulations. The results of the water study indicate that the Galesburg aquifer can meet the water needs. Traill is working with Hillsboro and Mayville on developing a regional project. The overall cost estimate is \$25 million. Phase 1 is the development of a new Galesburg Aquifer well field for the total regional water supply and transmission pipeline to the existing Mayville water treatment plant, along with a raw water pipeline from a new transfer station to the Hillsboro water treatment plant. Phase 2 involves distribution improvements with service to Galesburg and Grandin. Phase 3 is an additional well field development, installation of membranes in the existing Mayville Water treatment plant, and construction of a new membrane water treatment plant at Hillsboro. The project was approved for the following funding sources.



## Garrison Municipal, Rural, and Industrial Water Supply Program

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<u>Funding Source</u>	<u>Phase 1</u>	<u>Phase 2</u>	<u>Phase 3</u>	<u>Total</u>
Corps of Engineers Section 594	\$0	\$0	\$7,900,000	\$7,900,000
Drinking Water State Revolving Loan Fund	\$0	\$1,315,620	\$3,371,000	\$4,686,620
State Water Commission Contract Fund	\$3,167,000	\$2,411,500	\$1,300,000	\$6,878,500
USDA Rural Development Program	\$1,496,880	\$0	\$3,038,700	\$4,535,580
Federal MR&I Program	<u>\$984,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$984,000</u>
<b>Total</b>	<b>\$5,647,880</b>	<b>\$3,727,120</b>	<b>\$15,609,700</b>	<b>\$24,984,700</b>

**Tri-County Water District (Lakota Water Supply)** - Tri-County was experiencing a shortfall in current water allocations in the Elk Valley Aquifer to supply adequate water for the growth of the district. The city of Lakota's water line crosses under Stump Lake and currently has over 30 feet of water covering it. The Greater Ramsey Water District was approached and agreed to a connection with their system to bring a waterline to serve both Tri-County and Lakota's needs. Tri-County Water District made a connection to Greater Ramsey Water District to acquire an additional water supply and made a connection that allows water service to the city of Lakota. The estimated cost was \$1.0 million. The approved funding is in the form of a 70% grant of eligible costs, not to exceed \$700,000, with \$492,000 from federal MR&I funds and \$208,000 from the State Water Commission Contract Fund.

**Walsh Rural Water District Water Supply** - Walsh Rural Water entered into an agreement with Park River on a developing a regional system, which includes a joint water treatment plant. Park River constructed a project to use the Fordville Aquifer as a new primary source of water. The approved funding is in the form of a 26% Water Development Research Fund grant of eligible costs, not to exceed \$750,000.

Walsh Rural Water is constructing Phase II for internal pipeline modifications, interconnections, and reservoirs retrofitting. The cost for Walsh is estimated at \$3.6 million. The approved funding is in the form of a 29% grant of eligible costs, not to exceed \$1,000,000, with \$984,000 from federal MR&I funds and \$16,000 from the State Water Commission Contract Fund.

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**Garrison Diversion**  
**Municipal, Rural, and Industrial Water Supply Program**  
**Summary of Applications Submitted to Program**

3-Dec-09

PHASE	PROJECT NAME	ESTIMATED PROJECT COST	OBLIGATED FEDERAL MR&I FUNDS	COUNTY	DATE APPLICATION RECEIVED
5	Abercrombie Water Supply	\$36,425	\$27,319	Richland	08-17-87
5	Agassiz Water Users	\$671,761	\$391,365	Grand Fork, Traill, Walsh	09-25-87
5	All Seasons Rural Water Users System IV	\$5,647,552	\$3,659,686	Bottineau	02-21-96
5	All Seasons Rural Water Users System V (Pierce)	\$9,784,333	\$6,091,450	Pierce	03-08-94
5	Burleigh Water Users Phase I & II	\$12,163,283	\$6,534,500	Burleigh	06-30-88
5	Carson Water Supply	SWPP		Grant	08-29-89
5	Cavalier Water Supply	North Valley		Pembina	09-23-87
5	Crown Butte Water Supply	Missouri West		Morton	05-28-87
5	Dickey Rural Water	\$16,203,637	\$10,506,306	Dickey	06-04-91
5	Dunn Center Water Supply	SWPP		Dunn	06-27-88
5	Edgeley Water Supply	Dickey Rural Water		Dickey	10-16-87
5	Elgin Water Supply	SWPP		Grant	11-03-88
5	Englevale Rural Water	\$90,425	\$66,963	Ransom	11-04-88
5	Fargo Water Supply	\$4,733,043	\$3,068,478	Cass	10-13-88
5	Fingal Water Supply	Ransom/Sargent		Barnes	07-22-88
5	Gackle Water Supply	Dickey Rural Water		Logan	08-09-89
5	Garrison Rural Water Association	\$2,009,000	\$1,299,850	McLean	08-20-90
5	Glenfield Water Storage	\$83,432	\$54,230.67	Foster	08-02-00
5	Grand Forks Water Treatment	\$2,826,815	\$1,664,611	Grand Forks	07-27-92
5	Grand Prairie Estates	Burleigh Water		Burleigh	11-27-90
5	Grandin Water Supply	\$90,390	\$54,754	Cass	02-19-88
5	Gwinner Water Treatment	\$246,821	\$182,500	Sargent	12-07-87
5	Hankinson Water Supply	\$510,680	\$382,927	Richland	09-23-87
5	Hebron Water Supply	SWPP		Morton	12-14-89
5	Killdeer Water Supply	\$5,450	\$4,087	Dunn	09-14-87
5	Kindred Water Supply	\$94,147	\$57,995	Cass	10-15-87
5	Langdon Rural Water Phase 1 & 2	\$5,858,880	\$4,342,559	Cavalier	05-27-87
5	Langdon Rural Water Phase 4 (Munich Service Area)	\$9,999,960	\$852,275	Cavalier, Pembina, Walsh, Ramsey	06-20-94
5	Langdon Water Treatment	\$862,838	\$448,969	Cavalier	05-14-92
5	Marion Water Supply	Ransom/Sargent		LaMoure	12-28-87
5	McKenzie County Rural Water System I Expansion	\$2,379,152	\$628,240	McKenzie	11-19-96
5	McLean-Sheridan Rural Water	\$9,258,965	\$6,887,597	McLean, Sheridan	06-09-87
5	Medora Water Supply	SWPP		Billings	03-23-88
5	Minto Water Supply	\$980,431	\$595,500	Walsh	08-20-87
5	Missouri West Rural Water Ph 1	\$7,431,281	\$4,756,873	Morton	09-13-88
5	Missouri West Rural Water Ph 2	\$8,286,756	\$5,362,162	Morton	05-31-94
5	Neché Water Supply & Treatment	North Valley		Pembina	01-24-95
5	New Town Water Supply Line	\$132,796	\$81,817	Mountrail	03-21-88
5	North Valley Water Assn (Walhalla/Neché)	\$10,708,875	\$5,620,200	Pembina	12-27-93
5	North Valley Water Users	\$1,977,532	\$1,481,706	Pembina	08-19-87
5	Park River Water Supply	\$6,874	\$1,719	Walsh	12-19-86
5	Ramsey County Rural Utilities	\$10,531,651	\$6,898,379	Ramsey	09-08-87
5	Ramsey County Rural Utilities Expansion	\$13,041,960	\$3,738,206	Ramsey, Eddy, Foster	01-26-98
5	Ransom Sargent Water Users	\$21,574,360	\$15,100,000	Multiple	10-06-94
5	Riverdale Water Treatment	\$1,650,000		McLean	05-13-03
5	Riverside Park Dam	\$1,674,730	\$1,256,047	Grand Forks	12-17-86
5	Riverview Heights Water Supply	Missouri West		Morton	06-12-87
5	Rugby Water Treatment & Supply Ph 2	\$5,664,273	\$3,162,978	Pierce	03-17-88
5	Rugby Water Treatment Ph 1	\$330,829	\$248,122	Pierce	03-17-88
5	Southeast Water Users (LaMoure Water Supply)	\$3,571,429		LaMoure	05-05-88
5	Stanley Water Supply	\$2,654,581	\$1,675,267	Mountrail	10-29-87
5	Stutsman Rural Water Users (WDRF \$108,000)	\$948,599	\$44,519	Stutsman	01-08-87
5	Tolna Water Supply	Ramsey County		Nelson	10-20-87
5	Tri-County Water Expansion (Grand Forks, Nelson, Ramsey)	\$490,157	\$218,944	Steele, Traill, Walsh	10-20-87
5	Tri-County Water Expansion (Grand Forks, Nelson, Ramsey)	\$4,721,139	\$1,035,750	Steele, Traill, Walsh	07-12-96
5	Tri-County Water Expansion (Lakota Water Supply)	\$1,000,000	\$492,000	Nelson	12-18-06



5	Underwood Water Supply	\$2,780,693		McLean	09-17-92
5	Walsh Rural Water (Regional System with Park River)	\$3,600,000	\$984,000	Walsh	02-18-05
5	Williams Rural Water Assn Phase III	\$3,973,740	\$2,160,000	Williams	04-26-88
5	Williston Water Supply/Treatment	\$5,000,000	\$1,968,000	Williams	12-01-87
4	All Seasons Rural Water Users System I (Upham)	\$825,765	\$492,000	Bottineau	06-05-07
4	BDW Regional Water System Ph 2	\$3,485,000		Burke, Divide, North Williams	06-20-08
4	City of Devils Lake Water Supply and Treatment	\$16,000,000		Ramsey	03-09-92
4	City of Garrison Water System	\$1,868,700	\$1,368,000	McClean	04-07-07
4	City of Parshall Water System	\$12,000,000		Mountrail	01-28-08
4	City of Wildrose Water System	\$2,373,000		Mountrail	10-01-08
4	Mayville Water Treatment	Traill Rural Water		Traill	03-27-89
4	North Central Rural Water Consortium (Anamoose/Benedict)	\$10,286,000	\$3,905,000	Multiple	05-20-02
4	North Central Rural Water Consortium (South Benson Co)	\$2,925,000	\$984,000	Multiple	05-20-02
4	Northwest Area Water Supply (NAWS)	\$93,900,000	\$44,927,545	Multiple	10-21-87
4	Oliver, Mercer, Northern Dunn	\$36,800,000	SWPP	Oliver, Mercer, Dunn	05-12-94
4	Ray & Tioga Water System	\$15,048,000		Williams	11-26-07
4	South Central Regional Rural Water System	\$63,100,000	\$30,102,000	Burleigh, Emmons, McIntosh, Logan, Kidder	06-22-01
4	Southwest Pipeline	\$172,940,000	\$93,384,303	Multiple	05-12-86
4	Southwest Pipeline (McKenzie County Rural System III)	\$2,240,000	SWPP	McKenzie	01-05-07
4	Traill Rural Water District Regional Water Supply	\$24,987,000	\$984,000	Traill	02-18-03
4	Valley City Water Treatment	\$15,600,000		Barnes	10-Aug-09
4	Washburn Water System Improvements Phase 3	\$6,593,000		McClean	08-20-87
4	Wimbledon Water Supply (WDRF \$70,000)	\$140,000		Multiple	02-07-07
3	BDW Regional Water System Ph 3	\$12,670,000		Burke, Divide, North Williams	06-20-08
3	Bismarck Water Treatment	\$29,701,288		Burleigh	01-14-88
3	McKenzie County Rural Water System I & II (Watford SA)	\$4,300,000		McKenzie	11-16-07
3	McKenzie County Rural Water System IV (Alexander SA)	\$4,500,000		McKenzie	11-16-07
3	North Central Rural Water Consortium (Mountrail Co Rural P2)	\$4,000,000		Mountrail	05-18-01
3	North Central Rural Water Consortium Future	\$18,900,000		Multiple	05-20-02
3	Northwest Area Water Supply (NAWS) Future	\$123,100,000		Multiple	10-21-87
3	Oliver, Mercer, Northern Dunn Future	\$48,000,000	SWPP	Oliver, Mercer, Dunn	05-12-94
3	Red River Valley Water Supply	\$660,000,000	\$6,950	Multiple	12-15-01
3	South Central Regional Rural Water System (EMLK) future	\$30,900,000		Emmons, McIntosh, Logan, Kidder	06-22-01
3	Stutsman Rural Water Users (Great River Energy)	\$6,925,000		Stutsman	12-30-08
3	Stutsman Rural Water Users Expansion	\$3,873,075		Stutsman	01-21-09
3	Williams Rural Water (Tioga Rural Water WDRF -\$65,000)	\$8,250,000		Burke, Mountrail, Williams	10-21-02
3	Writing Rock Rural Water	BDW Regional Water		Multiple	03-28-88
2	Bottineau Water Supply	\$4,800,000		Bottineau	10-14-87
2	Dakota Water Users	\$687,000		Steele	09-08-88
2	Mapleton Water Supply	\$256,000		Cass	10-08-87
2	McLean-Sheridan Rural Water 2	\$8,623,000	\$49,421	Burleigh, McLean, Sheridan	05-24-00
2	Southeast Water Users Expansion	\$3,500,000		Richland	01-03-08
2	Upper Souris Rural Water	\$753,000		Multiple	10-09-87
2	Watford Regional Water Supply	\$7,500,000		McKenzie	01-03-08
1	Grand Forks Water Supply/Treatment	\$96,656,200		Grand Forks	07-26-01
1	Lake Sakakawea Estates Water Users	\$159,000		McLean	10-30-90
1	Lignite Water Supply			Burke	09-30-87
1	Little Missouri Bay Recreation Area			Dunn	05-27-87
1	Souris Water Treatment			Bottineau	01-19-88
1	Westhope Water Supply	\$880,000		Bottineau	03-03-88
	Administration -Bureau of Reclamation	\$6,522,047	\$6,522,047		
	Administration -Garrison Diverson Conservancy District	\$2,855,511	\$2,242,063		
	Administration -State Water Commission	\$2,214,500	\$1,744,136		
	Other Projects (NAWS \$119,072.24)	\$328,531	\$203,026		
	Reimbursement	\$1,219,490	\$1,219,490		

TOTAL = \$1,769,474,782 \$292,222,831 Includes Federal MR&I and ARRA Funds

PHASES	TOTALS	
1 - Application Submitted	6	\$285,700,784 = Funds Committed (Thu FY09)
2 - Preliminary Engineering Report	8	\$0 =1986 Act Balance of \$200 Million to Receive
3 - Feasibility Study	16	\$181,643,216 = DWRA Balance of \$200 Million w/index
4 - Design & Construction	19	\$253,700,784 = MR&I Funds Received (Thu FY09)
5 - Completed	60	\$32,000,000 = FY09 ARRA Funds Received
Withdrawn	29	\$20,000,000 ARRA-South Central Regional Rural Water System
<b>TOTAL PROJECTS =</b>	<b>138</b>	<b>\$12,000,000 ARRA-Oliver, Mercer, Northern Dunn (SWPP)</b>

**Withdrawn** - Adams, Benson Rural Water, Burlington, Cando, Crary, Fessenden, Forbes, Garrison, Golden Lake Resort, Hannaford, Jamestown, Karlsruhe, Kenmare, Lehr, Maddock, McKenzie County Rural Water System II (East), Michigan, Milnor, Mt. Carmel Dam, Old Settlers Park, Osabrock, Plaza, Rolla, State Line Water Cooperative, St. John, Streeter, Surrey, Walcott, and Wishek.

**Other Applications** - Alexander, Aneta, Arthur, Binford, Bowdon, Brooks Addition, Carrington, Carpio, Christine, Columbus, Crosby, Drake, Flaxton, Grafton, Harvey, Harwood, McVillie, Minnewaukan, Napoleon, Northwood, Page, Perkin, Ross, Sawyer, S. Pierce Co. RW, Towner, Tuttle, Velva, Wimbledon, Wyndmere



March 10, 2009

**Projects Approved for Funding**

Project	Activity	Grant Funding			
		GDCD WDRF	Federal MR&I	SWC Contract Fund	Total
All Seasons Water Users (Upham)	D	\$0	\$492,000	\$128,000	\$620,000
Devils Lake Water Supply	D	\$0	\$0	\$4,553,000	\$4,553,000
Garrison Water System	D	\$0	\$1,368,000	\$0	\$1,368,000
North Central Rural Water Consortium (South Benson)	D	\$0	\$984,000	\$916,000	\$1,900,000
North Central Rural Water Consortium (Anamoose/Benedict)	D	\$0	\$0	\$7,200,000	\$7,200,000
Northwest Area Water Supply	D	\$0	\$10,510,000	\$0	\$10,510,000
Parshall Water System	D	\$0	\$0	\$1,750,000	\$1,750,000
R&T Water System	D	\$0	\$0	\$4,200,000	\$4,200,000
South Central Regional Water Phase 1	C	\$0	\$2,952,000	\$1,918,000	\$4,870,000
South Central Regional Water Phase 2	D	\$0	\$1,300,000	\$8,200,000	\$9,500,000
Southwest Pipeline Project	D	\$0	\$3,936,000	\$3,000,000	\$6,936,000
Traill Rural Water Regional System Phase 1	D	\$0	\$984,000	\$1,508,000	\$2,492,000
Traill Rural Water Regional System Phase 2	D	\$0	\$0	\$1,519,000	\$1,519,000
Tri-County Water (Lakota)	C	\$0	\$492,000	\$208,000	\$700,000
Walsh Rural Water Phase 1	C	\$750,000	\$984,000	\$16,000	\$1,750,000
Walsh Rural Water Phase 2	D	\$0	\$0	\$1,519,000	\$1,519,000
Williams Rural Water Phase 4 (Tioga Rural)	F	\$65,000	\$0	\$0	\$65,000
City of Williston Water System	C	\$0	\$1,968,000	\$32,000	\$2,000,000
Wimbledon Water Supply	D	\$70,000	\$0	\$0	\$70,000
<b>Total</b>		<b>\$885,000</b>	<b>\$25,970,000</b>	<b>\$36,667,000</b>	<b>\$63,452,000</b>

F- Feasibility Study

C - Completed

D - Design &amp; Construction

WDRF - Water Development Research Fund