

State Water Plan Application Form

Applicant City of Rapid City 300 6 th Street Rapid City, SD 57701	Proposed Funding Package Consolidated Grant \$ _____ Consolidated Loan \$ _____ Clean Water SRF Loan \$ _____ Drinking Water SRF Loan \$11,000,000 Nonpoint Source 319 Grant \$ _____ Other <u>Municipal Bond</u> \$119,000,000 _____ \$ _____ _____ \$ _____ TOTAL \$130,000,000
Federal Employer ID No.	_____ _____ _____

Project Title: Rapid City Water Utility System Enhancements

Description: (Include present monthly utility rate and whether a reserve fund has been established for the utility to benefit from the project.)

The City of Rapid City, South Dakota is experiencing consistent growth, which has led to the need to plan for improved and/or added infrastructure for water utilities. After reviewing several alternatives it was determined that the best approach to ensure adequate water resources and water treatment includes; an upgrade of the Jackson Springs Water Treatment Plant, a raw water pumping station, RWPS at Jackson Springs and a new treatment facility at the existing Mt. View Site.

The Jackson Spring WTP and RWPS will be capable of treating 8 MGD. The new treatment facility on the existing Mt. View WTP site will provide an additional 36 MGD. The two sites will provide the City a combined treatment capacity of 44 MGD allowing it to meet the projected water demands through 2020.

Both treatment facilities will utilize Membrane Filtration Systems to provide the most cost-effective and operator friendly treatment. The WTP designs also include pretreatment processes to remove elements that cause membrane fouling.

Pretreatment processes include chemical addition, rapid mix, flocculation, and sedimentation. Pretreatment is intended to remove particulates from the raw water and reduce turbidity, TOC, disinfection by-product precursors, and some metals. Facilities implementing pretreatment with membrane filtration experience a significant reduction in operation and maintenance costs.

City of Rapid City has an established Water Utility Reserve Fund.

The current residential water rate for 5,000 gallons is \$16.58. Proposed rate is \$21.04 which will become effective approximately January 8, 2009.

The Applicant Certifies That:

I declare and affirm under the penalties of perjury that this application has been examined by me and, to the best of my knowledge and belief, is in all things true and correct.

<u>Alan Hanks, Mayor</u>	<u>605-394-4110</u>		
Name and Title of Authorized Signatory (Typed) Phone #		Signature	Date

Application Prepared By:

<u>Blaise Emerson, Executive Director</u>	<u>605-394-2681</u>	<u>Black Hills Council of Local Governments</u>
Name and Title (Typed) Phone #		Representing
<u>Mark A. Lichtwardt</u>	<u>303-721-9292</u>	<u>Burns & McDonnell</u>
Name of Engineer/Architect Phone #		Representing