



GB0008 09

OREGON WATER RESOURCE DEPARTMENT
WATER CONSERVATION, REUSE AND STORAGE
GRANT PROGRAM

RECEIVED

AUG 29 2008

WATER RESOURCES DEPT
SALEM, OREGON

I. General Information

Project Name: City of Dallas Aquifer Storage and Recovery Program Optimization/Expansion Studies

Type of Grant Requested: Water Conservation Reuse Above Ground Storage
 Storage Other Than Above-Ground [Including Aquifer Storage and Recovery (ASR)]

Program Funding Dollars Requested: \$ 74,600 Total cost of planning study: \$ 150,000

Note: Request may not exceed \$500,000

II. Applicant Information

Applicant Name: <i>Jerry Wyatt, City Manager</i>	Co- Applicant Name: <i>N/A</i>
Organization: <i>City of Dallas</i>	Organization:
Address <i>187 SE Court St</i>	Address:
<i>Dallas, Oregon 97338</i>	
Phone <i>503.831.3502</i>	Phone:
Fax: <i>503.623.2339</i>	Fax:
Email: <i>jerry.wyatt@ci.dallas.or.us</i>	Email:

Fiscal Officer Name: <i>Marcia Baragary, Finance Director</i>	Principle Contact: <i>Christy Ellis, Assistant Director</i>
Organization: <i>City of Dallas Finance Department</i>	Organization: <i>City of Dallas Public Works Dept.</i>
Address: <i>187 SE Court St</i>	Address <i>187 SE Court St</i>
<i>Dallas, Oregon 97338</i>	<i>Dallas, Oregon 97338</i>
Phone <i>503.831.3505</i>	Phone <i>503.831.3568</i>
Fax: <i>503.623.2339</i>	Fax: <i>503.623.2339</i>
Email: <i>marcia.baragary@ci.dallas.or.us</i>	Email: <i>christy.ellis@ci.dallas.or.us</i>

Certification:

I certify that this application is a true and accurate representation of the proposed work for a project planning study and that I am authorized to sign as the Applicant or Co-Applicant. By the following signature, the Applicant certifies that they are aware of the requirements of an Oregon Water Resources Department grant and are prepared to implement the project if awarded.

Applicant Signature: *Jerry Wyatt* Date: *8/28/08*

Print Name: *Jerry Wyatt* Title: *City Manager*

III. Planning Study Summary

Please give a brief summary of the planning study using no more than 150 words.

The City of Dallas is currently pilot testing a single-well 0.33-million gallon per day (MGD) ASR system utilizing the saline Siletz River Volcanics (SRV) as the receiving aquifer. During recharge of the ASR system, injected source water locally displaces saline groundwater in the aquifer. Early pilot testing results show that a fresh water storage zone can be developed in the SRV, confirm that potable water can be recovered from the system, and indicate recovery efficiency has increased over successive pilot testing cycles.

This feasibility study will use existing data sets to develop and calibrate operational models of aquifer geometry and dual-density flow characteristics in the SRV aquifer. These advanced numerical models will provide a technical basis for optimizing storage capacity and recovery efficiency from the City's existing ASR well and for decision making during expansion of the City's ASR program to meet their goal of a 1-MGD capacity ASR system.