



GA0028 09

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

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**WATER RESOURCES DEPT
SALEM, OREGON**

I. Grant Information

Project Name: Willow Lake/Big Butte Creek Enhancement Project

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: \$ \$75,000 Total cost of planning study: \$ \$150,000

Note: Request may not exceed \$500,000

II. Applicant Information

Applicant Name: <i>Hazel Ellefson, Manager</i>	Co- Applicant Name: <i>Larry Rains, Manager</i>
Organization: <i>Eagle Point Irrigation District (EPID)</i>	Organization: <i>Medford Water Commission (MWC)</i>
Address: <i>P. O. Box 157 Eagle Point, Oregon 97524</i>	Address: <i>200 S. Ivy Medford, Oregon 97501</i>
Phone: <i>541-826-3411</i>	Phone: <i>541-774-2441</i>
Fax:	Fax:
Email: <i>epid@wildblue.net</i>	Email: <i>larry.rains@cityofmedford.org</i>

Fiscal Officer Name: <i>Larry Rains and Hazel Ellefson</i>	Principle Contact: <i>Edward Olson</i>
Organization: <i>(same as shown above)</i>	Organization: <i>Brown and Caldwell</i>
Address:	Address: <i>13677 Hwy 234 Gold Hill, Oregon</i>
Phone:	Phone: <i>541-951-1635</i>
Fax:	Fax: <i>541-855-1270</i>
Email:	Email: <i>enolson@brwncald.com</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: *Hazel Ellefson Larry Rains* Date: 08-28-2008

Print Name: Hazel Ellefson Manager and Larry Rains, Manager Title: Manager

III. Planning Study Summary

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

EPID and MWC are the primary water rights holders in the Big Butte Creek watershed. EPID services approximately 8,000 acres of land through a water right on South Fork Big Butte Creek. MWC provides domestic water to over 130,000 people around Medford through a series of water rights on Big Butte Creek and the Rogue River. Willow Lake is used to balance the water needs of these two entities. Water is released from the lake when natural flows in South Fork Big Butte Creek are insufficient to meet water right requirements.

Droughts, decreased rain and snow, and warmer weather patterns have challenged both water systems' ability to meet customer's water demands. The planning study contains three components: Complete the feasibility study on increasing the capacity of Willow Lake by selecting the optimum size, developing plans and cost estimates, and submitting them for approval; Develop a computer basin model to forecast demands and test different water management strategies; Develop a flow and water temperature goal for Big Butte Creek.