

# MEMORANDUM

Date: June 4, 2015

To: Ray Jaindl

From: John Byers, Diana Walker and Margaret Matter

**Subject:** Request for an intern to assist with estimating agricultural water demands using the Geographic Information Systems for existing and future conditions for the Willamette Basin Reservoir Study and for requesting term extensions for reservations of unappropriated water in five administrative basins.

We would like to hire an intern or temporary employee to assist in developing Geographic Information System (GIS)-based estimates of existing and future agricultural water demands in six river basins; Willamette, Hood, Grande Ronde, Powder, Malheur, and Owyhee.

The agricultural demand estimates will be used by Oregon Department of Agriculture (ODA), other state and federal agencies and other entities, in:

- (a) Determining how water stored in Corps of Engineers' thirteen reservoirs on the Willamette River System will be allocated among multiple demands, including agricultural, municipal, recreational, and environmental; and
- (b) Justifying the request by ODA to extend the terms of the reservations of unappropriated water for future economic opportunities in agriculture in the Hood, Grande Ronde, Powder, Malheur and Owyhee basins.

We estimate approximately 520 hours (i.e., 65 full-time work days over a three-month period, July through September) is required to help: (a) set-up the GIS data; (b) format hydrologic, climate, and crop water use datasets (e.g., in EXCEL); (c) link the datasets in GIS; and (d) conduct and refine modelling of existing and future agricultural water demands. Assuming an hourly wage of \$10, \$12, and \$15 for an intern or temporary employee, the three-month internship will entail approximately \$5,200, \$6,240, or \$7,800, respectively.

Since the intern will have opportunity to interact with staff at Oregon Water Resources Department (OWRD) on tasks related to some of OWRD's project responsibilities for the Willamette Basin Reservoir Study, there may be cost-share opportunities with OWRD.

Thank you for considering this request and we are happy to answer any questions you may have.

Best Regards