

# STATE OF COLORADO

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## Colorado Water Conservation Board

### Department of Natural Resources

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TO: Colorado Water Conservation Board Members

FROM: Todd Doherty  
Intrastate Water Management and Development Section

DATE: March 5, 2009

SUBJECT: **Agenda Item 8, March 17-18, 2009 Board Meeting**  
**Identified Projects and Processes (IPP) Database Demonstration**

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Bill Ritter, Jr.  
Governor

Harris D. Sherman  
DNR Executive Director

Jennifer L. Gimbel  
CWCB Director

Dan McAuliffe  
CWCB Deputy Director

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### Staff Recommendation

This is an information item and Board action is not required.

### Background

Over the past several years, the Colorado Water Conservation Board (CWCB) has undertaken several efforts to identify and evaluate Colorado's current and future water uses and needs. These efforts include: development of water use, demand, and basin fact sheets; the 2002 Drought and Water Supply Assessment; the 2003 Statewide Water Supply Initiative (SWSI); refinements to SWSI through Basin-Wide Water Needs Assessments and most recently, the water demand projections for the year 2050.

SWSI catalogued identified projects and processes (IPPs) that local water suppliers are currently undertaking as components of their own water supply planning efforts to meet their 2030 water needs (structural and non-structural projects). If these projects are successfully implemented, 80 percent (512,000 acre-feet) of the state's projected 2030 municipal and industrial (M&I) needs will be met. The remaining 20 percent (118,000 acre-feet) was identified as the "Gap." It should be noted that the calculation of the Gap may be optimistic and is based on the assumption that all IPPs will be successfully implemented and will deliver the expected amount of water. SWSI recommended developing a common database for water demand projections, tracking the IPPs, and monitoring the gap.

With technical assistance from Riverside Technology Incorporated (RTi), staff is finalizing the first component of the IPP Database. This phase consisted of the development of the database and populating this tool with data compiled during SWSI.

The Identified Projects and Processes Database will be used by CWCB to:

- Calculate the water supply 'gap' under a variety of future demand projections and IPP implementation scenarios;
- Track the status and implementation of water projects;
- Provide cost estimates for water projects;
- Allow CWCB to better assist water providers with the financing of water projects;
- Allow CWCB to better assist water providers with conservation and drought planning;
- Develop and modify statewide water demand projections;
- Track the adoption and implementation of water conservation plans;
- Analyze trends (e.g. demand or gap); and
- Report generation.

### **Next Steps**

As stated above, the IPP Database is populated with data collected from providers during SWSI. Considering that the SWSI data was collected in 2003, it is necessary to update the water provider data. This database will house more detailed data than was compiled in SWSI including but not limited to demand data, project costs, and conservation/drought data.

To refine and update the water provider data, CWCB staff and consultants will develop a prototype questionnaire for use in pilot program with selected water providers to gather information for the IPP Database. Staff will select five water providers for pilot testing including Front Range and West Slope providers at various levels of supply, infrastructure and drought planning. The purpose of the pilot test is to determine if any final modifications should be made to either the IPP Database or the questionnaire. Staff expects to have the pilot testing completed in the next several months. Once the final modifications are made to the database and questionnaire, staff will proceed to contact all water providers in the State to update the information.