



NOTICE OF PUBLIC MEETING AGENDA

**UPPER VERDE RIVER WATERSHED PROTECTION COALITION
TECHNICAL ADVISORY COMMITTEE (TAC) MEETING**

**Wednesday, April 4, 2012 - 1:00 p.m.
Town of Prescott Valley, Community Room #331
7501 E. Civic Circle - Prescott Valley, Arizona**

- ITEM NO 1. Discussion – Water Conservation Program**

- ITEM NO 2. Discussion – Old Home Manor Update**

- ITEM NO 3. Discussion – Watershed Restoration Initiative**

- ITEM NO 4. Discussion – May Board Meeting**

- ITEM NO 5. Next Meeting Time / Location / Agenda Items**

Note: Comments from the public will be heard after each agenda item. Any such remarks shall be addressed to the TAC as a whole and not to any individual. Such remarks shall be limited to three (3) minutes unless additional time is granted by the Chair.



AGENDA ITEM NO. 1

DISCUSSION – WATER CONSERVATION PROGRAM

- Shaun Rydell to discuss Home and Garden Show
- SRP Grant

AGENDA ITEM NO. 2

DISCUSSION – OLD HOME MANOR UPDATE

Discuss project

- Agreement with Chino Valley (Status)
- Schedule for advertise, bidding, and construction

AGENDA ITEM NO. 3

DISCUSSION – WATERSHED RESTORATION INITIATIVE

Discuss watershed restoration initiative

- Review policy and background
- Review key points from Montgomery & Associates white paper
- Review recharge mapping report



AGENDA ITEM NO. 4

DISCUSSION - MAY BOARD MEETING

Discuss upcoming Board Agenda

- Watershed Restoration Initiative
- Update on Old Home Manor project

AGENDA ITEM NO. 5

NEXT MEETING TIME / LOCATION / AGENDA ITEMS

The next regularly scheduled TAC Meeting is on **Wednesday, May 2, 2012, 1:00 p.m.**, at the Town of Prescott Valley, Community Room #331, 7501 E. Civic Circle, Prescott Valley, Arizona. Agenda items proposed for the next TAC Meeting will be discussed.



Montgomery & Associates

MOUNTAIN FRONT RECHARGE LITERATURE REVIEW IN SUPPORT OF UPPER VERDE RIVER WATERSHED PROTECTION COALITION APPLICATION White Paper Review

The purpose of the white paper was to review existing research in the field of groundwater recharge to identify the current areas of knowledge and identify under investigated topics. The white paper focuses on mountain front recharge and mountain block recharge. This information is anticipated to help the Coalition prepare future applications to various public and private funding entities. This white paper formed the premise of the National Science Foundation (NSF) application.

The paper found that recharge in mountainous regions can be a significant portion of total recharge in semi-arid environments. Despite the relative importance of mountain recharge to the water balance in semi-arid regions, many of the processes that cause recharge on and near mountains remain poorly understood. The paper discussed these processes, as well as potential areas of research for each. They include:

- Precipitation
- Runoff
- Recharge
- Evapotranspiration (ET)

In general, there is a lack of research regarding Mountain Front and Mountain Block Recharge in semi-arid regions. In particular, research areas of interest presented in the paper include:

- How do tree canopies affect the relationship between ET and precipitation? Recharge? If this information was available, could recharge be increased through land management while still supporting wildlife?
- How long does it take for different plants to adapt to hydrologic changes? How does the timeframe, together with predicted changes in weather patterns, influence the future water balance in semi-arid watersheds?
- Can communities be designed to include plant communities that provide an optimal balance of habitat, efficient water use, and soil stability in semi-arid environments?

NSF Water, Sustainability and Climate (WSC) grants are available in three categories.

- Category 1 grants are for workshop-planning level projects. Typical awards for these grants range from \$75,000 - \$150,000.
- Category 2 grants are for observatories and modeling projects. In 2010, award amounts averaged \$3.8 million.
- Category 3 grants are for modeling. In 2010, award amounts averaged \$867,000.

Potential recommended NSF WSC application topics:

- Category 1 proposal to hold a workshop to draw experts to the region with the goal of generating their interest in developing future, site specific research projects.
- Category 2 proposal that makes use of existing hydrologic and economic analysis to prioritize data collection.

Note that all past NSF grants under the NSF WSC Program, which started one year ago, were awarded to universities.