

# PROPOSAL

## Water Accounting Areas in the TAMA

Safe Yield Task Force

*Revised from proposal dated October 28, 2013 and SYTF meeting notes from January 27, 2014*

**Purpose:** Provide a platform of consistent water-related data and information across multiple Water Accounting Areas throughout the TAMA, which can be used for analysis, comparison, and to support informed decision-making processes. This proposal is not tied to any policy proposal beyond what is included here, nor is it primarily intended to facilitate future regulatory action.

**Goals:** Facilitate coordination and assessment of hydrologic balance across the TAMA. Provide a rational basis for any future focus on areas needing hydrologic attention. This tool will also help point to success stories throughout the TAMA.

**Approach:** This proposal envisions a phased approach that generally includes: (1) Phase I - data compilation and population; and (2) Phase II - data analysis.

**Budget:** Phase I - \$50,000; Phase II - TBD.

**Timeline:** Phase I - 1 year to complete information gathering and deliverables; Phase II - TBD

**Staff:** Phase I - ADWR-led effort; Phase II - TBD

### Outline:

#### Phase I

1. Delineate TAMA Water Accounting Areas
  - a. Divide TAMA into smaller areas that take into consideration its localized features
  - b. The unique and/or common features used to delineate the Water Accounting Areas include local geography, hydrology, legal, political, and corporate boundaries
  - c. Proposed configuration includes seven (7) Water Accounting Areas - see dynamic map provided by PAG <http://gismaps.pagnet.org/subbasins/#/MapUser>
  
2. Characterize TAMA Water Accounting Areas
  - a. Develop a database framework of consistent data and information that characterize the Water Accounting Areas
  - b. Data and Information may include, for example:
    - i. Groundwater pumping
    - ii. Groundwater levels
    - iii. Wells (except and non-exempt)
    - iv. Municipal providers

- v. Population
  - vi. Agriculture water users
  - vii. Industrial water users
  - viii. Water Demand
  - ix. CAP usage
  - x. Effluent usage (and treatment plants)
  - xi. Recharge activity
  - xii. Wheeling (CAP and reclaimed)
  - xiii. CAGR Member Lands and Member Service Areas
  - xiv. Conditions of shallow groundwater dependent ecosystems and streams
  - xv. Water quality issues
  - xvi. Geologic aspects (e.g., subsidence)
3. Populate TAMA Water Accounting Areas Database
  - a. Utilize TAMA pump tax revenue to fund ADWR-led effort to populate TAMA Water Accounting Areas database
  - b. Create in format that will allow for future potential updates
4. Deliverables
  - a. TAMA Water Accounting Areas database
  - b. Publicly-accessible web site
  - c. Spatial component (e.g., maps)
  - d. Presentation to GUAC
5. GUAC makes recommendation to ADWR based on results

## Phase II

1. Data Analysis
  - a. Analyze Water Accounting Areas database
  - b. Align with related datasets (e.g., PUG), forecasting (e.g., Tucson Water) and modeling (e.g., ADWR)
2. Deliverables
  - a. Report
  - b. Concise summaries with figures
  - c. Presentation to GUAC
3. GUAC makes recommendation to ADWR based on results