AZ Western Rivers Action Network

Governor's Water Augmentation Council Discussion

Recycled Water Committee Update

&

"Managed Recharge"

John Kmiec,

President, Southern Arizona Water Users Association

May 17, 2017

Arizona Water Initiative

Created in December 16, 2015

The Council will investigate the long-term augmentation strategies for the State, as well as explore additional water conservation opportunities, identify infrastructure needs and, report policy direction or statutory changes to take Arizona into the future.

- The Planning Area Process
- Water Augmentation Council

The “GWAC”

Council membership consists of a wide array of experts including water providers and leaders in Arizona agriculture, mining, agribusiness, home building, watershed groups and government.

ADWR Director Thomas Buschatzke serves as chairman of the Council.

The “GWAC”

Principle Role of Council

- *Provide direction to Director of ADWR on water management issues (when requested)*
- *Advocate for conservation across the state*
- *Identify augmentation opportunities as a means to resolve water resource conflicts or improve water supply availability to ensure legal certainty for water users and investors.*

Creation of Four Subcommittees

- *Recycled Water*
- *Desalination*
- *Long Term Augmentation*
- *Finance*

Recycled Water Committee

Our Charge……

Discuss the potential for augmentation through re-use and the utilization of reclaimed and poor quality water to significantly reduce the future demand and supply imbalance.

Recycled Water Committee

What are our topics?

- Direct Potable Reuse
- Statute review of the 2025 sunset clause
- “Effluent” to “Recycled Water”
- Managed Recharge (why 50%?)

What is Managed In-Channel Recharge?

A Managed Underground Storage Facility Permit allows for water to be discharged to a naturally water-transmissive area such as a streambed that allows the water to percolate into the aquifer without the assistance of a constructed device. (ADWR)

Example: Santa Cruz River in Tucson.

What is Constructed Recharge?

A Constructed Underground Storage Facility Permit allows for water to be stored in an aquifer by using some type of constructed device, such as an injection well or percolation basin. (ADWR)

Managed Recharge vs. Constructed

Value of Water

Conflicts on the horizon

"Re-purposing"

Is there a win-win?

Recycled Water Committee Meeting

Presentations

Managed Recharge History (Gerry Walker-ADWR)

SAWUA (Tim Thomure-Tucson Water & Joe Olsen-Metro Water)

NAMWUA (John Munderloh-Prescott Valley)

Sonia Perillo (Audubon Arizona)

Lawrence Marquez (BOR)

OTHER WATER PROVIDERS - 2016 METRO WATER SUMMARY

- Metro Water utilizes renewable water supplies to offset groundwater pumping
- Environmental uses are preserved through the Conservation Effluent Pool

METRO WATER DISTRICT

Gross Effluent = 4,246 AF

- less contribution to SAWRSA
- less contribution to CEP (currently 0, could be 700 AF)
- less contrib

Net Effluent = 2,045 AF

- less share of ET losses, diversions and outflow

Remaining Effluent = 1,174 AF

- Less 50% Cut to the Aquifer

Recharge Credits Earned = 587 AF

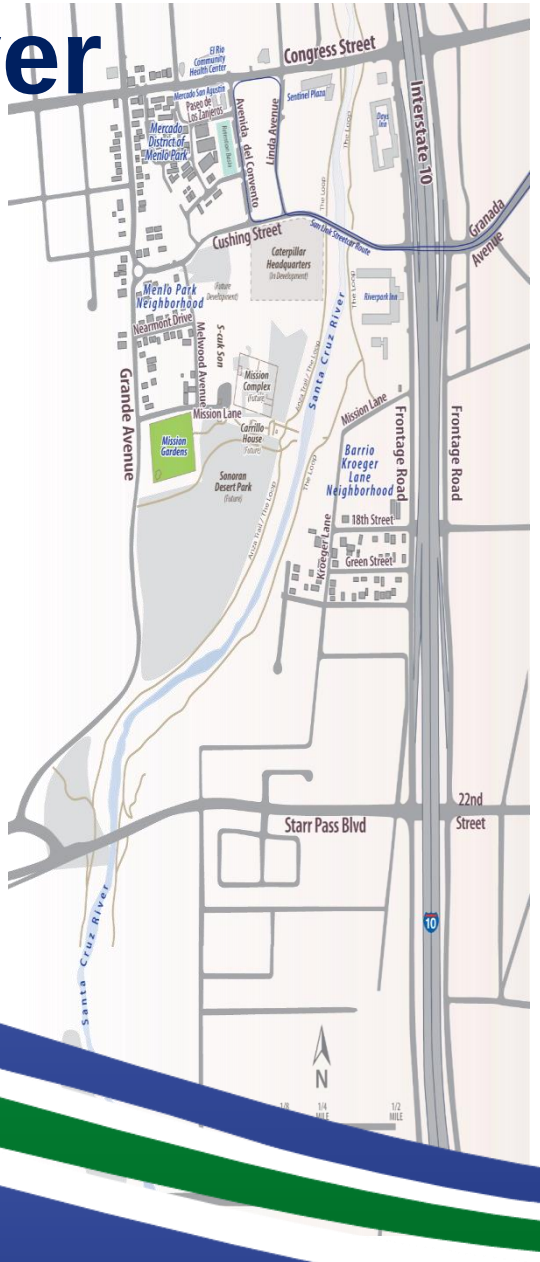
A Vision for the Santa Cruz River

AGUA DULCE

THE SANTA CRUZ RIVER

HERITAGE PROJECT

Revitalizing a River with Reclaimed Water



Infrastructure to Create a Flowing Channel

New investment is relatively minimal

- Existing Reclaimed Mains
- Proposed Outflow Locations (@2500 AFY)
- Anticipated Flow

Riparian Area

In the Santa Cruz

- Reclaimed water north of 29th Street and north of Cushing Street
- Adding approximately 2,500 AFY in each location
- Cultivating native vegetation

Benefits of…

AGUA DULCE
THE SANTA CRUZ RIVER
HERITAGE PROJECT

- Virtually all of the City's reclaimed water put to beneficial use.
- Increased river flows and riparian habitat in the City.
- Potential economic development driver.
- Lower cost than potable reuse. Maximizes use of existing infrastructure.
- Supports historical and cultural community projects.
- Improves water management efficiency.

CITY OF FOUNDED 1775 TUCSON

TUCSON WATER

Concern: ***Cut to the Aquifer***

- Managed and Constructed are both effective
- 50% cut for Managed projects
- Forces “engineered” projects
- Forces higher costs
- Barrier to conjunctive uses

Next Steps for Committee

Open discussion on the items listed for recommendation this year

- Direct Potable Reuse
- Statute review of the 2025 sunset clause
- “Effluent” to “Recycled Water”
- Managed Recharge (why 50%?)

May 22nd Recycled Water Meeting

10 AM – Noon at ADWR -Phoenix

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WESTERN RIVERS ACTION NETWORK

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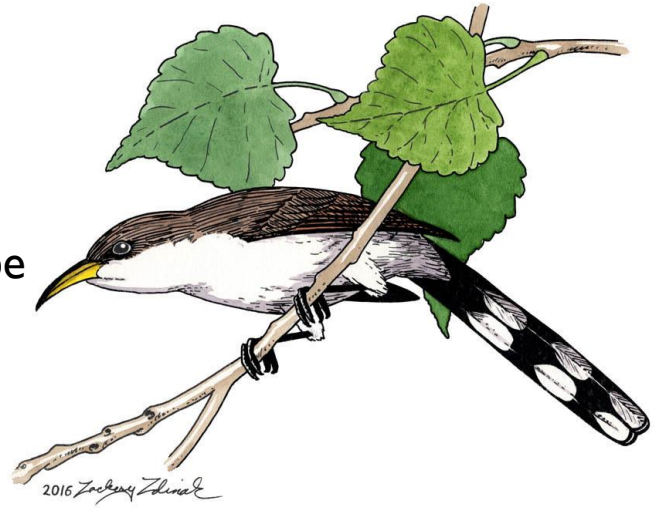

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