

Agenda No. 6

Amended AWBA 2020 Plan of Operation

Arizona Water Banking Authority Meeting

June 17, 2020

**Presented by
Virginia O'Connell**



Amended 2020 Plan of Operation

- **Statutory Firming Pool - 68,083 AF**
 - CAGR - 11,332 AF
 - Reclamation - 6,695 AF
 - AWBA - 50,056 AF
- **Proposed AWBA storage based on funding and storage capacity availability**



2020 Storage Partners

- **Phoenix AMA – 39,056 AF**
 - TDRP
- **Pinal AMA – 9,000 AF**
 - CAIDD – 3,000 AF
 - MSIDD – 3,000 AF
 - HIDD – 3,000 AF
- **Tucson AMA – 2,000 AF**
 - AVRPP



Table 3. Water Delivery Schedule

| AWBA-Storage Sites | | Permitted Capacity (AF) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---------------------------------------|------------------------------------|-------------------------|-----|-----|-----|-----|-----|-----|--------|--------|--------|-----|-----|-----|--------|
| PHOENIX AMA : | | | | | | | | | | | | | | | |
| USF | AGUA FRIA | 100,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | GRUSP | 93,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | HIEROGLYPHIC MTN | 35,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | SUPERSTITION MTNS | 35,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TONOPAH DESERT | 150,000 | 0 | 0 | 0 | 0 | 0 | 0 | 10,000 | 15,000 | 14,056 | 0 | 0 | 0 | 39,056 |
| | | | | | | | | | | | | | | | 39,056 |
| GSF | NEW MAGMA IDD | 54,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | QUEEN CREEK ID | 28,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TONOPAH ID | 15,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | 0 |
| AMA TOTAL INTRASTATE | | | 0 | 0 | 0 | 0 | 0 | 0 | 10,000 | 15,000 | 14,056 | 0 | 0 | 0 | 39,056 |
| PINAL AMA : | | | | | | | | | | | | | | | |
| GSF | CAIDD | 110,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,500 | 1,500 | 0 | 0 | 0 | 3,000 |
| | HOHOKAM | 55,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,000 | 1,500 | 500 | 0 | 0 | 3,000 |
| | MSIDD | 120,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,000 | 0 | 0 | 0 | 0 | 3,000 |
| | | | | | | | | | | | | | | | 9,000 |
| AMA TOTAL INTRASTATE | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,500 | 3,000 | 500 | 0 | 0 | 9,000 |
| TUCSON AMA: | | | | | | | | | | | | | | | |
| USF | AVRA VALLEY | 11,000 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 600 | 600 | 400 | 200 | 0 | 2,000 |
| | LOWER SANTA CRUZ | 50,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | PIMA MINE ROAD | 30,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | CAVSARP | 100,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | SAVSARP | 60,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | 2,000 |
| GSF | CORTARO-MARANA ID | 20,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | KAI FARMS (Red Rock) | 11,231 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | BKW Farms | 14,316 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | 0 |
| AMA TOTAL INTRASTATE | | | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 600 | 600 | 400 | 200 | 0 | 2,000 |
| TOTAL INTRASTATE | | | 0 | 0 | 0 | 0 | 0 | 0 | 10,200 | 21,100 | 17,656 | 900 | 200 | 0 | 50,056 |
| TOTAL INTERSTATE | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL RECHARGE | | | 0 | 0 | 0 | 0 | 0 | 0 | 10,200 | 21,100 | 17,656 | 900 | 200 | 0 | 50,056 |
| DIRECT DELIVERY (Non-Storage): | | | | | | | | | | | | | | | |
| | Southside Replenishment Bank | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Southside Replenishment Obligation | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | TOTAL DIRECT | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL DELIVERIES | | | 0 | 0 | 0 | 0 | 0 | 0 | 10,200 | 21,100 | 17,656 | 900 | 200 | 0 | 50,056 |

Table 4. 2020 Water and Facility Rates

| Recharge Rates | Cost per Acre-foot |
|--|--------------------|
| CAWCD delivery rate for AWBA | \$211.00 |
| Groundwater Savings Facility operator cost share rate ¹ | |
| Phoenix and Pinal AMAs | \$34.00 |
| Tucson AMA | \$16.00 |
| Underground Storage Facility rate paid by AWBA | |
| CAWCD – Phoenix Facilities | \$13.00 |
| CAWCD – Tucson Facilities | \$15.00 |
| Clearwater Facility (CAVSARP/SAVSARP) | \$18.64 |
| Metro Water (Avra Valley Recharge Project) | \$18.45 |

¹ This rate is paid directly to CAP by the GSF operators and is not available as revenue to the AWBA



Additional Storage Costs

- **Total Additional Costs \$10.8 M**
 - **Phoenix AMA – \$8.78 M**
 - Maricopa County water storage tax
 - **Pinal AMA – \$1.59 M**
 - Pinal County water storage tax
 - **Tucson AMA – \$458,900**
 - Pima County water storage tax - \$422,900
 - Tucson AMA withdrawal Fees - \$36,000



Table 5. Funding for Amended 2020 Plan of Operation

| Funding Source | Estimated Funds Available | | Estimated Funds Utilized | | Estimated Credits (AF) | |
|--------------------------------------|------------------------------|--------------|-----------------------------|--------------|------------------------|-------------------|
| | AWBA | CAWCD | AWBA | CAWCD | Water Storage | Developed Credits |
| Withdrawal Fees¹ | | | | | | |
| Phoenix AMA | \$1,353,200 | - | \$1,353,200 | - | 0 | 4,930 |
| Pinal AMA | \$882,400 | - | \$882,400 | - | 0 | 3,210 |
| Tucson AMA | \$622,100 | - | \$622,100 | - | 150 | 2,440 |
| Water Storage Tax² | | | | | | |
| Phoenix AMA | \$0 | \$11,750,000 | \$0 | \$11,748,500 | 36,320 | 12,590 |
| Pinal AMA | \$0 | \$1,593,000 | \$0 | \$1,593,000 | 8,370 | |
| Tucson AMA | \$0 | \$3,422,900 | \$0 | \$3,422,900 | 1,710 | 12,280 |
| General Fund | \$0 | | | | | |
| Phoenix AMA | | - | \$0 | - | 0 | 0 |
| Pinal AMA | | - | \$0 | - | 0 | 0 |
| Tucson AMA | | - | \$0 | - | 0 | 0 |
| | Total Funds Available | | Total Funds Expended | | Total Credits | |
| | \$19,623,600 | | \$19,622,100 | | 46,550 | 35,450 |

¹ Phoenix and Pinal AMA funds are used to develop ICS Firming credits pursuant to IGA with the Gila River Indian Community. Includes a 10% loss factor.

² Includes \$3 million each in Maricopa and Pima County funds reserved by the CAWCD Board of Directors for LTSC purchases. Water Storage Tax funds used for water delivery and storage costs are offset by CAWCD as part of the O&M of the Project.

Table 6. Projected Goals Achieved through 2020

| Objective | Funding Source | Goal (AF) | Credits Accrued (AF) | Progress Toward Goals/Oblig. |
|-------------------------|-----------------|-----------|----------------------|------------------------------|
| M&I Firming | | | | |
| Phoenix AMA | Maricopa 4¢ | 1,566,000 | 1,565,749 | 99.98% |
| Pinal AMA | Pinal 4¢ | 243,000 | 231,941 | 95% |
| Tucson AMA | Pima 4¢ | 864,000 | 499,217 | 58% W/Fees 70% |
| Groundwater Mgmt | | | | |
| Phoenix AMA | Withdrawal Fees | | 251,411 | |
| Pinal AMA | Withdrawal Fees | | 417,453 | |
| Tucson AMA | Withdrawal Fees | | 106,732 | |
| On-River M&I Firming | General Fund | 420,000 | 403,830 | 96% |
| Indian Firming - GRIC | | 350,000 | 170,724 | 49% |



Questions?

waterbank.az.gov

