

**ARIZONA WATER BANKING AUTHORITY**

WEDNESDAY, MARCH 19, 1997

PHOENIX DEPARTMENT OF WATER RESOURCES

PLEASE PRINT

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**ARIZONA WATER BANKING AUTHORITY**

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**Arizona Water Banking Authority**  
500 North Third Street, Phoenix, Arizona 85004  
Telephone 602-417-2418  
Fax 602-417-2401

**FINAL AGENDA**  
Wednesday, March 19, 1997  
9:30 a.m.

Arizona Department of Water Resources  
3rd floor Conference Room

- I. Welcome / Opening Remarks
- II. Adoption of Minutes of February 19th Meeting
- III. Update on Facilities Inventory
- IV. Update on Plan of Operation
- V. Legislative Update
- VI. Discussion and possible action on the Mohave County Water Authority / RWCD / Mesa Proposal
- VII. Update on the AWBA Study Commission
- VIII. Update on Interstate Water Banking
- IX. Call to the Public
- X. Adjournment

**Future Meeting Dates:**

(All meetings are scheduled at the AZ Department of Water Resources unless otherwise noted)

Wednesday, April 16, 1997, 9:30 a.m.

Wednesday, May 21, 1997, 9:30 a.m.

**Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting the Arizona Water Banking Authority at (602) 417-2418 or (602) 417-2455 (TDD). Requests should be made as early as possible to allow time to arrange the accommodation.**

ARIZONA WATER BANKING AUTHORITY  
Draft Minutes

February 19, 1997 Meeting  
Arizona Department of Water Resources



**Welcome / Opening Remarks**

The meeting was called to order by Chairman Rita Pearson at 9:40 a.m.

Chairman Pearson announced that State Senate President Brenda Burns had appointed Senator Pat Conner to replace Senator Stan Barnes as the Senate ex officio member and Representative Bill McGibbon had been appointed by Speaker Don Aldridge to serve as the House member. She further noted that both members were unlikely to participate in AWBA meetings during the legislative session but are following the Bank closely and will be active when the legislature is out of session.

**AUTHORITY MEMBERS**  
Rita P. Pearson, Chairman  
Tom Griffin, Vice-Chairman  
Bill Chase, Secretary  
Grady Gammage  
Richard S. Walden

**EX OFFICIO MEMBERS**  
Senator Pat Conner  
Rep. Bill McGibbon

Ms. Pearson further mentioned the water storage agreements signed on January 24th by the AWBA and seven Groundwater Savings Facilities in Maricopa and Pinal Counties, for storage of 260,000 af of water. The Water Bank has a statutory goal of storing 100,000 af by June 30, a goal that should be met and possibly exceeded. Based on current projections, the AWBA may store upwards of 400,000 af per year, starting in 1998. For 1997, the state of Arizona is expected to utilize approximately 2.7 million af of its 2.8 million af entitlement.

The Water Bank will now focus on the direct storage of water at the Granite Reef Underground Storage Project (GRUSP) and the Avra Valley facility in the Tucson area. Storage at the GRUSP facility began on March 4th and should begin at the Avra Valley site by the end of March.

**Adoption of Minutes of January 15th Meeting**

The January 15 minutes were adopted as presented.

**Discussion and Adoption of Facilities Inventory**

Chairman Pearson stated that the AWBA statute requires a Facilities Inventory be adopted by the AWBA by March 1 and that an inventory of existing and proposed facilities has been compiled by staff for review.

Mr. Tim Henley, Manager, gave an overview and the process used in compiling the Facilities Inventory, including: meetings with AMA staffs, meetings with water interests in the 3 AMA's, meeting with CAWCD and the use of existing reports on groundwater recharge.

He noted that the Inventory was divided into three sections:

Section I - Existing Storage Facilities - facilities located in the Phoenix, Pinal and Tucson AMA's that are physically capable of taking CAP water or in the ADWR permitting process.

Section II - Proposed Storage Facilities - projects in various stages of development, but for which no storage facility permit application has been filed. The proposed list is provided for information purposes only and was not used in the Findings and Conclusions section.

Section III - Findings and Conclusions - the determination of whether sufficient storage facilities exist to meet the needs of the AWBA for the next ten years, developed in consultation with ADWR, CAWCD, the Phoenix, Pinal and Tucson GUAC's, and other interested parties.

Mr. Henley stated, that based on the Inventory, sufficient capacities existed in the Phoenix and Pinal AMA's (with some water management concerns about the geographic locations of current facilities) to meet the needs of the Water Bank for the next 10 years.

It was noted that the Phoenix and Pinal AMA's are conducting regional recharge processes, in association with the development of the Third Management Plan. The Water Banking Authority may revisit the Inventory, depending on the outcome of these processes.

For the Tucson AMA, Water Banking staff is recommending a determination that sufficient facilities do not exist to meet the needs of the Water Bank for the next 10 years. Staff recommends that the Water Bank work with the existing Regional Recharge Committee process currently being conducted in the Tucson AMA for developing additional sites. Proposition 200 and Tucson's membership in the CAGR were also noted as issues that must be considered when examining the situation in the Tucson area.

Mr. Henley noted that AWBA staff consulted with ADWR staff on water management objectives, as required by statute (ADWR response included in Inventory as Attachment 1).

Mr. Tom Griffin inquired about the treatment of storage facilities outside the Phoenix/Pinal/Tucson AMA's in the Inventory. He felt that the lack of facilities in the rural areas, as noted in the Inventory, was quite restrictive and he questioned the need for the 10 year time frame. Mr. Griffin stated that he would feel more comfortable if the Inventory showed a need to initially store water away from the Colorado River, until adequate facilities are available on the River.

Mr. Henley responded that the 10 year window was required by statute, but does not preclude the development of additional facilities or preclude the Bank from utilizing those facilities in the future.

Ms. Pearson requested confirmation that the analysis is based on the firming of municipal supplies in time of drought, and not a supplemental supply for communities, either on the River or within the CAWCD service area. Mr. Henley affirmed, stating that the statutory role of the AWBA is to firm M&I supplies, including communities along the Colorado River; potentially assist in Indian water rights settlements and to help in achieving water management goals.

Chairman Pearson inquired about the annual capacity numbers listed in Table 1 of the Inventory, and noted that total capacity available would be over 400,000 af annually.

Mr. Henley responded that it is not yet known exactly how much water will be needed to firm M&I supplies over the next 10 years, how much water could potentially be needed for Indian settlements, or to help water management objectives. The figures included in Table 1 were developed based on assumptions of funds available. The Inventory will be updated as additional information is available.

Mr. Henley noted that the DRAFT of the Inventory was provided for public comment, and that several comments had been received to-date, including:

- Tucson wanting a larger dollar cost for water in the Tucson area in Table 1, reducing the capacity actually needed based on and increased cost of water and the funds available.
- The need for recognizing and considering the statutory requirement for the AWBA give special consideration to facilities constructed with four cent tax monies.

Chairman Pearson then called on Jim Holway, ADWR Assistant Director for Groundwater Management, to comment on groundwater management objectives:

Mr. Holway stated that the AWBA enabling legislation requires the Groundwater Management Division to examine ways and locations that additional storage could help meet the goals of the AMA's and be most useful. He noted three key areas: 1) the physical availability of water, preserving a future supply; 2) subsidence - protecting from or mitigating landslides and fissures and 3) mitigating groundwater contamination and groundwater quality problems.

Mr. Holway noted specific areas of significant groundwater depletion problems that are expected to worsen in the future, and where recharge may help:

Phoenix AMA -

Luke A.F.B., Sun City/Sun City West, Peoria, North Phoenix, Paradise Valley, East Salt River Valley, Apache Junction, Chandler Heights, Queen Creek, and the Cave Creek/Carefree area.

Tucson AMA -

Central Tucson Well Field, Cañada Del Oro Basin and the Green Valley area.

Pinal AMA -

Construction of small, direct facilities could be used to mitigate areas of substantial depletion, especially in municipal service areas and along Indian reservation boundaries.

The Chairman recognized Mr. Marvin Cohen, City of Tucson. Mr. Cohen stated that he feels the Water Bank is doing a very good job in meeting their objectives. He stated that the Central Tucson Well Field, Cañada Del Oro Basin and the Green Valley area are areas where recovery facilities exist and where there is a real need for recharge. On behalf of the City of Tucson, Mr. Cohen expressed a desire for greater focus by the AWBA on the Central Avra Valley and South Avra Valley sites, currently being developed by the City. He referenced Mr. Holway's statement that these sites have some potential as regional recharge facilities, but may not meet water management objectives for users other than the City of Tucson. Mr. Cohen stated that 80% of the water users in the greater Tucson area get their water from the City of Tucson, making the Avra Valley sites important for recharge to Tucson.

Mr. Cohen stated that Pima Mine Road is projected as a 10,000 af pilot project with potential capacity of 13,000 af. He stated the City was paying for the over sizing of the delivery pipeline to the site, for a potential capacity of 30,000 af. Reference was made to recharge at BKW Farms.

Grady Gammage noted that the next CAWCD Board meeting is being held in Tucson to discuss the Pima Mine Road project. According to Mr. Gammage, one CAWCD Board member is very much against the Pima Mine Road site and convinced that there are serious environmental problems with the site. Mr. Gammage stated that he endorses the Pima Mine Road site on behalf of the Bank, but wanted to remind folks of the controversy surrounding the project. Mr. Gammage felt it unlikely that the CAWCD Board will reverse its support of Pima Mine Road, but that they are seeking public comments from residents of the Tucson area.

Chairman Pearson moved for adoption of the Inventory, incorporating all comments received to-date, including those offered by Mr. Cohen, Mr. Griffin, and any additional comments.

#### **Discussion on the Status of Direct Recharge partnership agreements**

Mr. Henley gave a brief overview on the status of the development of an agreement for use of the Granite Reef Underground Storage Project (GRUSP). He noted that Water Banking staff has been working very closely with SRP and CAWCD in finalizing a two-party agreement between the AWBA and SRP. Mr. Henley felt that water deliveries to GRUSP should begin the beginning of March.

AWBA and CAWCD staff's continue to work with Tucson area interests on the development of agreements for use of the Central Avra Valley site being constructed by the City of Tucson and the Avra Valley site operated by the CAWCD. Preliminary discussions have begun concerning use of the Lower Santa Cruz site.

#### **Update of Plan of Operation**

Jimmy Jayne, Technical Administrator, gave an overview on the status of the Plan of Operation. Through February, the Water Bank will have stored approximately 22,000 af at Groundwater Savings Facilities in the Pinal and Phoenix AMA's - 14,000 af in the Phoenix AMA and 8,000 af in the Pinal AMA.

Mr. Jayne stated that the Plan of Operation will be updated monthly at each AWBA meeting. In addition, Water Banking staff plans on having sheets for each district that will show exactly how much is being stored at each facility.

Update on facilities included in the Plan of Operation:

Agua Fria - scheduled to be available in September 1997.

Lower Santa Cruz - permit was filed with ADWR on February 14 and is scheduled to be available for use by the AWBA by September 1997.

Pima Mine Road - permit issued by ADWR / 35 day appeals process ends March 13.

(Chairman Pearson excused herself for another engagement)

#### **Update on the AWBA Study Commission and AWBA Recovery Subcommittee**

Herb Dishlip, ADWR Assistant Director, stated that at the Study Commission meeting in January, they discussed issues relating to Colorado River operations. He noted that the Study Commission is looking at projected demands for water and when average supply will be less than average demand on the River.

This study will examine when surplus water is expected to be available, as a potential source of water for banking, and when shortages will potentially effect Arizona. Model analysis will then be done, using a computer model constructed by the Bureau of Reclamation that runs the River on paper, using various assumptions. ADWR has hired staff and purchased the model, allowing for examination of opportunities to bank surplus water.

The discussion continued concerning the legal framework on how shortages are shared with various priority water users. ADWR prepared a chart that showed the priority uses within Arizona, explaining the BOR priority system. The subcommittee will begin to develop strategies regarding shortages.

The next AWBA Study Commission meeting is scheduled for February 27, 10:00 a.m., at the AZ Department of Water Resources and discussion will focus on interstate banking.

Mr. Henley stated that the working group of the Recovery Subcommittee has yet to meet, but that staff was meeting for the development of potential recovery/recharge scenarios. He stressed the need of the Colorado River communities for some assurance in future recovery.

#### **Update on Interstate Water Banking**

Herb Dishlip referenced the speech made by Interior Secretary Babbitt at the Colorado River Water Users Association meeting concerning the formulation of regulations by the Bureau of Reclamation. BOR has formed a team with knowledge of Arizona to work on development of regulations, including legal, contracting, and water management staff. Development and implementation of regulations may take two years. Mr. Dishlip stated that ADWR staff has met with the BOR "team", Nevada and California for an informal "round table" discussion on the regulatory process. It was stated that



California has yet to put together a plan to stay within their allotted 4.4 million af/year and has expressed concern about banking "excess" water that is currently being used in California. They do agree with Arizona storing water for its own use, but feel that meeting direct use needs take precedence over storing water for another state.

Mr. Dishlip noted that Nevada is very interested in proceeding with these regulations and have continued to work diligently on how to make interstate banking work. They have submitted their own set of draft regulations to the Bureau of Reclamation.

Officials in the Department of Interior were briefed following the interstate banking meeting, the focus of which was to get direction for appropriate regulations. The outcome of that meeting is not yet known.

Tim Henley stated that the Water Bank could be faced with some significant policy decisions concerning interstate banking. The Bank will participate in any discussions and be a key player in any decision made.

#### **Call to the Public**

Vice-Chairman Griffin recognized Jerry Edwards, Chief Engineer, Colorado River Commission of Nevada.

Mr. Edwards stated that Nevada agrees with Arizona's concepts for rules and regulations and see some additional discussions needed regarding mechanics. He further noted that Nevada is very interested in moving ahead expeditiously and cannot be "held hostage" by another process in another state that may delay the movement of the rules and regulations.

Mr. Edwards reiterated the feeling that the recovery of banked water is as important to Nevada as water banking. Nevada is needing to make a determination if interstate banking is a viable program for the state of Nevada. In making that determination, Nevada needs to know can they indeed bank the amount of water that is going to be useful.

Marvin Cohen inquired of Mr. Henley regarding the two-year time frame for rules and regulations.

Mr. Henley responded that rules are typically drafted in a relatively short time frame. They then go into the bureaucratic maze that can be a year or more before they are published by the Department of Interior. Once published, there is a federal process for public comment.

The meeting was adjourned by Mr. Griffin at 11:00 a.m.

## ARIZONA WATER BANKING AUTHORITY

### Update of the **PLAN OF OPERATION** as of March 17, 1997

Each month Water Banking staff will provide an update of the status of facilities included in the Arizona Water Banking Authority 1997 Annual Plan of Operation. The update will include a continually revised description of each facility and corresponding information, including what has been stored there to-date and projected storage for the next month.

#### **GENERAL INFORMATION**

The inaugural Arizona Water Banking Authority agreement signing ceremony was held on Friday, January 24th at the Main Roosevelt Water Conservation District Pump House. The event was attended by the Governor, Authority members, irrigation district presidents and general managers, and many others. The ceremony was very successful and the first of several more to come.

Subsequent to this ceremony, an agreement was executed by the Water Bank and the Salt River Project on March 3rd, for the use of the Granite Reef Underground Storage Project.

#### **PHOENIX AMA**

Water storage agreements were signed by the Arizona Water Banking Authority on Friday, January 24th with Chandler Heights Citrus Irrigation District (500 af); New Magma Irrigation & Drainage District (40,000 af); Queen Creek Irrigation District (16,000 af); and Roosevelt Water Conservation District (67,000 af) for storage of approximately 123,500 af of storage by the Water Bank in calendar year 1997 in the Phoenix AMA.

Deliveries began at the Granite Reef Underground Storage Project on behalf of the Water Bank on Tuesday, March 4. Deliveries to GRUSP were temporarily stopped by CAWCD on March 12th, 1:00 p.m. due to cold water moss problems. 2,015 af of Water Bank water was recharged by SRP from March 4 to March 12. 8261 af was projected for delivery to GRUSP for the AWBA for the month of March. 60,000 af of storage is expected at GRUSP in calendar year 1997. This would bring the total storage in the Phoenix AMA to approximately 183,500 af for 1997.

It appears that the Water Bank will not be partnering with Maricopa Water District No. 1 (MWD) for calendar year 1997 because of the inability for the Water Bank to receive long-term storage credits from water delivered to MWD on behalf of the Bank. As a result, 20,000 af of water is now available for delivery to another Phoenix AMA partner.

#### Agua Fria

The Central Arizona Water Conservation District (CAWCD) is replacing the Agua Fria siphon on the CAP aqueduct from June - September of this year. While replacing the siphon, CAWCD will be installing a turnout with 500 cfs capacity (350,000 af/yr) for delivery of CAP water four miles

down stream to an 80 acre parcel on the west bank of the Agua Fria River, just south of Jomax Road.

Installation of the siphon is the first step in the construction of the proposed Agua Fria spreading basin project with a proposed 50,000 af annual capacity. The site is located in the flood plain on 80 acres of BLM land on the west bank of the Agua Fria. The facility is being constructed by CAWCD with the use of 4 cent State Water Storage Fund monies, making it a top priority facility for use by the Water Bank.

CAWCD is expected to file an application for an Underground Storage Permit with the Department of Water Resources in the Spring of 1997. Construction is expected to be scheduled in phases, with releases of CAP water from the Agua Fria turnout beginning as soon as September of this year. Water will be released as the spreading basins are being constructed to allow sufficient time for soil to be saturated, permitting water to travel four miles to the south. The Arizona Water Banking Authority continues to support construction of the Agua Fria facility, including scheduling delivery of 4,000 af of CAP water to the site in 1997.

As required by statute, the Water Bank intends to continue to give the Agua Fria recharge facility special consideration as a facility constructed by CAWCD with State Water Storage Fund monies. According to the Department of Water Resources, the Agua Fria site will also assist in meeting water management objectives by helping to mitigate the cone of depression in the West Valley.

#### Granite Reef Underground Storage Project (GRUSP)

In addition, the Water Bank has entered into an agreement with the Salt River Project for use of the Granite Reef Underground Storage Project by the Water Bank for approximately 60,000 af of storage in calendar year 1997.

Under the signed agreement, the Water Bank agrees to include 50,000 af / year of storage in the draft Annual Plan of Operation for a 5 year period. The cost charged by SRP to the Water Bank will be \$13 / af = \$8 facility, \$3 interconnect, \$2 SRP south canal.

The Phoenix AMA is in the process of developing a Regional Recharge Plan that will provide guidance and assistance in future development of direct facilities to help in meeting groundwater management objectives in the Phoenix AMA.

#### **PINAL AMA**

On Friday, January 24th, the Arizona Water Banking Authority signed water storage agreements with Central Arizona Irrigation & Drainage District (35,000 af), Hohokam Irrigation & Drainage District (28,000 af), and Maricopa-Stanfield Irrigation & Drainage District (56,000 af) for storage of approximately 140,000 af in calendar year 1997 by the Water Bank in the Pinal AMA. Of the 119,000 af expected to be stored in Pinal County, 20,000 af will be developed with \$300,000 of four cent property taxes collected in Pinal County and 100,000 af with \$1.8 million of General Fund monies.

Based on information received from the Pinal AMA office, the only potential recharge facility expected to be developed in the near future is the planned direct facility at Picacho Reservoir by Pinal County. The Pinal AMA is in the process of developing a Regional Recharge Plan that will provide guidance and assistance in future development of direct facilities to assist in meeting groundwater management objectives in the Pinal AMA.

## **TUCSON AMA**

The Water Banking Authority has scheduled delivery of approximately 19,000 af of CAP water to four existing or proposed facilities in the Tucson AMA in the 1997 Plan of Operation. Deliveries to Avra Valley (2,100 af) on behalf of the Water Bank are expected to begin the end of March or the beginning of April. The Central Avra Valley Storage and Recovery Project (4,500 af) and the Lower Santa Cruz (10,000 af) are both in various stages of development, but expected to have capacity available to the Water Bank in 1997. Pima Mine Road (2,500 af), being developed by CAWCD with State Water Storage Fund monies, is not expected to be available until January 1998.

### Avra Valley Recharge Project

The Avra Valley Recharge Project has a two-year pilot permit for 8,300 af, with 2,100 of the storage capacity belonging to the Water Bank. Recharge at Avra Valley is occurring quicker than expected, with infiltration rates in three out of the four basins performing at least three times better than expected, ranging from 3 to 8 feet per day. 2,800 af has been recharged by CAWCD from July 8, 1996 to December 31, 1996 on behalf of the Metropolitan Domestic Water Improvement District. CAWCD expects to apply for a full-scale permit by Fall of 1997 for 7,000 af annually.

The Water Bank has a Water Storage Permit for Avra Valley and is currently negotiating an agreement with CAWCD for use of the facility. The Water Bank should begin to store Bank water at Avra Valley the end of March or first of April and meet the 2,100 af goal for 1997.

### Central Avra Valley Storage and Recovery Project (CAVSARP)

The City of Tucson owns 22,000 acres in the Central Avra Valley. The City owns and operates the CAVSARP pilot facility on a portion of those lands and will develop, own and operate the proposed larger facility. To-date, Tucson has stored 154 af of the 500 af allowed under the pilot permit, which expired January 31, but was extended by ADWR through August. Tucson expects to apply for a new 2 year, 10,000 af pilot permit in March. Assuming a May approval of the permit by ADWR, construction could begin and the facility could be operational by August.

The Arizona Water Banking Authority, ADWR and Tucson Water staff's have met to discuss the future of CAVSARP and continue preliminary discussions on the development of an agreement for storage by the Water Bank.

### Lower Santa Cruz River Flood Control and Replenishment Project

An application for an underground storage permit has been filed by the Pima County Flood Control District and the Town of Marana for a 20 year / 30,000 af/year facility. Approval by ADWR is expected in April and issuance in May. The site is located along the Santa Cruz River north of Tangerine Road in 78 acres of spreading basins. CAWCD has been consulted in the development of the project, but has not yet decided to be a full participant in the project with State Water Storage Funds.

The Water Bank is scheduled to deliver 10,000 af of CAP water to the facility over the last four months of 1997.

#### Pima Mine Road Recharge Project

The Pima Mine Road project is being developed by CAWCD with State Water Storage Fund monies. The project is being designed as an 18 acre / 8 - 1.8 acre basin facility with an eventual 30,000 af / year capacity.

ADWR recently issued a 2 year / 10,000 af pilot permit to CAWCD. The 35 day appeal deadline ended March 13th with one Notice of Appeal filed by Burton M. Apker, on behalf of ASARCO. Depending on any delay created by the Appeal, approval of a construction contract is expected at the May CAWCD Board meeting. Assuming 8 months of construction, the facility is expected to be operational by January 1998.

The pipeline from the CAP aqueduct is being designed to run along the south side of Pima Mine Road and being oversized by the City of Tucson for potential future use by additional entities. A stub out is being installed at the Santa Cruz River for possible future use by the San Xavier District and a blind flange will be installed for future use by entities to the south, including FICO.

**ARIZONA WATER BANKING AUTHORITY  
GROUNDWATER SAVINGS FACILITY**



**Facility Permit Holder:** Hohokam Irrigation & Drainage District

**Address:** 142 South Arizona Blvd.  
Coolidge, AZ 85228

**Phone:** O: 520-723-7751  
F: 520-723-4929

**Contact:** Jack Long, Manager

**Permit No:** 72-534489.0001

**Capacity:** 40,000 af

**Duration of Permit:** September 20, 1996 - December 31, 2006

**Storage Permit Holder:** Arizona Water Banking Authority

**Permit No:** 73-534489.1000

**Capacity:** 40,000 af

**Duration of Permit:** 01/24/97 - 12/31/2010

**Long-Term Storage Account No:** 70-431135

**Groundwater Savings Facility Agreement No:** AWBA 003.97

<b>Capacity available to AWBA: 28,000 af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY			0
FEBRUARY			1,400
MARCH	1,400		
APRIL	3,300		
MAY	3,300		
JUNE	6,300		
JULY	5,400		
AUGUST	5,700		
SEPTEMBER	1,300		
OCTOBER	1,300		
NOVEMBER			
DECEMBER			
<b>TOTALS (af)</b>	<b>28,000</b>		

**ARIZONA WATER BANKING AUTHORITY  
UNDERGROUND STORAGE FACILITY**



**Facility:** Granite Reef Underground Storage Project (GRUSP)  
**Facility Permit Holder:** Salt River Valley Water User's Association  
**Address:** P.O. Box 52025  
 Phoenix, AZ 85072  
**Phone:** O: 236-2343  
 F: 236-2159  
**Contact:** Dave Roberts, Manager

**Permit No:** 71-516371  
**Capacity:** 200,000 af  
**Duration of Permit:** January 1, 1995 - December 31, 2010

**Storage Permit Holder:** Arizona Water Banking Authority  
**Permit No:** 73-516371.1200  
**Capacity:** 200,000 af  
**Duration of Permit:** 01/24/97 - 12/31/2010  
**Long-Term Storage Account No:** 70-441150  
**Groundwater Savings Facility Agreement No:** AWBA 008.97

<b>Capacity available to AWBA: 80,000 af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY	10,000		0
FEBRUARY	10,000		0
MARCH	10,000	8,261	2,015*
APRIL	10,000		
MAY	10,000		
JUNE	10,000		
JULY			
AUGUST			
SEPTEMBER			
OCTOBER			
NOVEMBER			
DECEMBER			
<b>TOTALS (af)</b>	<b>60,000</b>		

\* CAWCD curtailed water supply to GRUSP due to moss/capacity problems on 3/12/97 at 1:00 p.m. Deliveries may not resume until the beginning of April

**ARIZONA WATER BANKING AUTHORITY  
GROUNDWATER SAVINGS FACILITY**



**Facility Permit Holder:** Roosevelt Water Conservation District

**Address:** P.O. Box 100  
Higley, AZ 85236

**Phone:** O: 988-9586  
F: 988-9589

**Contact:** Michael Leonard, General Manager

**Permit No:** 72-545695

**Capacity:** 100,000 af

**Duration of Permit:** February 23, 1995 - December 31, 2010

**Storage Permit Holder:** Arizona Water Banking Authority

**Permit No:** 73-545695.6000

**Capacity:** 100,000 af

**Duration of Permit:** 01/24/97 - 12/31/2010

**Long-Term Storage Account No:** 70-441150

**Groundwater Savings Facility Agreement No:** AWBA 007.97

<b>Capacity available to AWBA: 95,000 af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY	4,000		0
FEBRUARY	8,000		6,271
MARCH	4,000		
APRIL	8,000		
MAY	8,000		
JUNE	8,000		
JULY	4,000		
AUGUST	5,000		
SEPTEMBER	8,000		
OCTOBER	5,000		
NOVEMBER	3,000		
DECEMBER	2,000		
<b>TOTALS (af)</b>	<b>67,000</b>		



**ARIZONA WATER BANKING AUTHORITY  
GROUNDWATER SAVINGS FACILITY**



**Facility:** New Magma Irrigation & Drainage District  
**Facility Permit Holder:** Central Arizona Water Conservation District  
**Address:** 23636 North 7th Street  
 Phoenix, AZ 85024  
**Phone:** O: 870-2333  
 F: 870-2332  
**Contact:** Larry Dozier, Deputy General Manager

**Permit No:** 72-534888  
**Capacity:** 40,000 af  
**Duration of Permit:** Renewal Application Pending  
**Status:** Renewal and conveyance of permit to New Magma pending

**Storage Permit Holder:** Arizona Water Banking Authority  
**Permit No:** 73-534888.1000  
**Capacity:** 40,000 af  
**Duration of Permit:** 01/24/97 - 12/31/2010  
**Long-Term Storage Account No:** 70-441150  
**Groundwater Savings Facility Agreement No:** AWBA 005.97

<b>Capacity available to AWBA: 40,000 af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY	2,500		0
FEBRUARY	2,000		3,310
MARCH	2,300		
APRIL	2,300		
MAY	2,100		
JUNE	2,100		
JULY	3,700		
AUGUST	9,700		
SEPTEMBER	9,700		
OCTOBER	1,400		
NOVEMBER	1,200		
DECEMBER	1,000		
<b>TOTALS (af)</b>	<b>40,000</b>		

**ARIZONA WATER BANKING AUTHORITY  
GROUNDWATER SAVINGS FACILITY**



**Facility:** Queen Creek Irrigation District  
**Facility Permit Holder:** Central Arizona Water Conservation District  
**Address:** 23636 North 7th Street  
 Phoenix, AZ 85024  
**Phone:** O: 870-2333  
 F: 870-2332  
**Contact:** Larry Dozier, Deputy General Manager

**Permit No:** 72-534550  
**Capacity:** 28,000 af  
**Duration of Permit:** Renewal Application Pending

**Storage Permit Holder:** Arizona Water Banking Authority  
**Permit No:** 73-534550.1000  
**Capacity:** 28,000 af  
**Duration of Permit:** 01/24/97 - 12/31/2010  
**Long-Term Storage Account No:** 70-441150  
**Groundwater Savings Facility Agreement No:** AWBA 006.97

<b>Capacity available to AWBA: 16,000 af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY	1,000		0
FEBRUARY	1,000		0
MARCH			
APRIL	1,300		
MAY	1,300		
JUNE	1,000		
JULY	1,600		
AUGUST	3,600		
SEPTEMBER	1,500		
OCTOBER	1,000		
NOVEMBER	500		
DECEMBER	2,200		
<b>TOTALS (af)</b>	<b>16,000</b>		

**ARIZONA WATER BANKING AUTHORITY  
GROUNDWATER SAVINGS FACILITY**



**Facility Permit Holder:** Maricopa-Stanfield Irrigation & Drainage District

**Address:** P.O. Box 870  
Stanfield AZ 85272

**Phone:** O: 520-424-3344  
F: 520-424-3281

**Contact:** Grant Ward, General Manager

**Permit No:** 72-531381.0001

**Capacity:** 120,000 af

**Duration of Permit:** November 18, 1996 - December 31, 2004

**Storage Permit Holder:** Arizona Water Banking Authority

**Permit No:** 73-531381.1000

**Capacity:** 120,000 af

**Duration of Permit:** 01/24/97 - 12/31/2010

**Long-Term Storage Account No:** 70-431135

**Groundwater Savings Facility Agreement No:** AWBA 004.97

<b>Capacity available to AWBA: 80,000 af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY	4,000		0
FEBRUARY	5,000		2,446
MARCH	5,000		
APRIL	11,000		
MAY	11,000		
JUNE	13,000		
JULY	7,000		
AUGUST	6,000		
SEPTEMBER	6,800		
OCTOBER	3,200		
NOVEMBER	1,200		
DECEMBER	3,800		
<b>TOTALS (af)</b>	<b>77,000</b>		

**ARIZONA WATER BANKING AUTHORITY  
GROUNDWATER SAVINGS FACILITY**



**Facility:** Chandler Heights Citrus Irrigation District  
**Facility Permit Holder:** Central Arizona Water Conservation District  
**Address:** 23636 North 7th Street  
 Phoenix, AZ 85024  
**Phone:** O: 870-2333  
 F: 870-2332  
**Contact:** Larry Dozier, Deputy General Manager

**Permit No:** 72-534753  
**Capacity:** 3,000 af  
**Duration of Permit:** Renewal Application Pending

**Storage Permit Holder:** Arizona Water Banking Authority  
**Permit No:** 73-534753.1000  
**Capacity:** 3,000 af  
**Duration of Permit:** 01/24/97 - 12/31/2010  
**Long-Term Storage Account No:** 70-441150  
**Groundwater Savings Facility Agreement No:** AWBA 002.97

<b>Capacity available to AWBA: 500 af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY			
FEBRUARY			100
MARCH			
APRIL	70		
MAY	80		
JUNE	80		
JULY	100		
AUGUST	90		
SEPTEMBER	80		
OCTOBER			
NOVEMBER			
DECEMBER			
<b>TOTALS (af)</b>	<b>500</b>		

**ARIZONA WATER BANKING AUTHORITY  
UNDERGROUND STORAGE FACILITY**



**Facility:** Avra Valley  
**Facility Permit Holder:** Central Arizona Water Conservation District  
**Address:** 23636 North 7th Street  
 Phoenix, AZ 85024  
**Phone:** O: 870-2333  
 F: 870-2332  
**Contact:** Larry Dozier, Deputy General Manager

**Permit No:** 71-551092  
**Capacity:** 8,300 af over two years  
**Duration of Permit:** July 1, 1996 - June 30, 1998

**Storage Permit Holder:** Arizona Water Banking Authority  
**Permit No:** 73-551092.1000  
**Capacity:** 8,000 af  
**Duration of Permit:** 01/24/97 - 12/31/2010  
**Long-Term Storage Account No:** 70-441150

<b>Capacity available to AWBA: 2075 af</b>			
<b>Potential Capacity Available to AWBA in 1997 3,771 af *</b>			
<small>*(Full-scale permit must be issued in fall of 1997)</small>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY			
FEBRUARY	210		0
MARCH	210	210	
APRIL	210		
MAY	210		
JUNE	210		
JULY	210		
AUGUST	210		
SEPTEMBER	210		
OCTOBER	210		
NOVEMBER	210		
DECEMBER			
<b>TOTALS (af)</b>	<b>2,100</b>		

**ARIZONA WATER BANKING AUTHORITY  
GROUNDWATER SAVINGS FACILITY**



**Facility:** Central Arizona Irrigation & Drainage District  
**Facility Permit Holder:** Central Arizona Water Conservation District  
**Address:** 23636 North 7th Street  
 Phoenix, AZ 85024  
**Phone:** O: 870-2333  
 F: 870-2332  
**Contact:** Larry Dozier, Deputy General Manager

**Permit No:** 72-531382  
**Capacity:** 110,000 af  
**Duration of Permit:** Renewal and Conveyance Application Pending

**Storage Permit Holder:** Arizona Water Banking Authority  
**Permit No:** 73-531382.1000  
**Capacity:** 110,000 af  
**Duration of Permit:** 01/24/97 - 12/31/2010  
**Long-Term Storage Account No:** 70-431135  
**Groundwater Savings Facility Agreement No:** AWBA 001.97

<b>Capacity available to AWBA: 35,000 af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY	1,600		0
FEBRUARY	2,000		6,825
MARCH	2,500		
APRIL	5,000		
MAY	4,500		
JUNE	6,000		
JULY	4,600		
AUGUST	4,000		
SEPTEMBER	3,000		
OCTOBER	1,100		
NOVEMBER	100		
DECEMBER	600		
<b>TOTALS (af)</b>	<b>35,000</b>		

**ARIZONA WATER BANKING AUTHORITY  
UNDERGROUND STORAGE FACILITY**



**Facility:** Central Avra Valley Storage & Recovery Project

**Facility Permit Holder:** Tucson Water

**Address:** P.O. Box 27210  
Tucson, AZ 85726-7210

**Phone:** 520-791-2689

**Contact:** Bruce Johnson, Chief Hydrologist

**Recipient:**

**Permit No:** (will be assigned when application is submitted)

**Capacity:** 10,000 af over two years (proposed)

**Duration of Permit:** Two years (proposed)

**Status:** Application to be submitted March 1997

**Storage Permit Holder:** City of Tucson, Tucson Water

**Permit No:**

**Capacity:**

**Duration of Permit:**

**Long Term Storage Account No:**

**Groundwater Savings Facility Agreement No:**

<b>Capacity available to AWBA:                      af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY			
FEBRUARY			
MARCH			
APRIL			
MAY			
JUNE			
JULY			
AUGUST			
SEPTEMBER			
OCTOBER			
NOVEMBER			
DECEMBER			
<b>TOTALS (af)</b>			

**ARIZONA WATER BANKING AUTHORITY  
UNDERGROUND STORAGE FACILITY**



**Facility:** Lower Santa Cruz Replenishment Project  
**Facility Permit Holder:** Pima County Flood Control District  
 Town of Marana

**Address:** 201 North Stone 4th Floor  
 Tucson AZ 85701

**Phone:** 520-740-6350 (Julia Fonseca, PCFCD)  
 520-682-3401 (Brad DeSpain, Marana)

**Contact:** Julia Fonseca, PCFCD  
 Brad DeSpain, PCFCD

**Recipient:** N/A

**Permit No:** 71-561366

**Capacity:** 30,000 af (proposed)

**Duration of Permit:** 20 years (proposed)

**Status:** Under review, 100 day deadline 5/27/97.

**Storage Permit Holder:**

**Permit No:**

**Capacity:**

**Duration of Permit:**

**Long Term Storage Account No:**

**Groundwater Savings Facility Agreement No:**

<b>Capacity available to AWBA:           af</b>			
<b>MONTH:</b>	<b>SCHEDULED:</b>	<b>PROJECTED:</b>	<b>ACTUAL:</b>
JANUARY			
FEBRUARY			
MARCH			
APRIL			
MAY			
JUNE			
JULY			
AUGUST			
SEPTEMBER			
OCTOBER			
NOVEMBER			
DECEMBER			
<b>TOTALS (af)</b>			



**ARIZONA WATER BANKING AUTHORITY  
UNDERGROUND STORAGE FACILITY**



**Facility:** Pima Mine Road Pilot Recharge Project  
**Facility Permit Holder:** Central Arizona Water Conservation District  
**Address:** 23636 North Street  
 Phoenix AZ 85024  
**Phone:** 602-870-2851

**Contact:** Cliff Neal, Engineer/Hydrologist II

**Recipient:**  
**Permit No:** 71-552809  
**Capacity:** 10,000 af over two years  
**Duration of Permit:** Two years from the date of initial recharge but not to extend beyond December 31, 1999  
**Status:** Permit signed, pending appeal process. End of 35 day appeal 3/13/97. Appeal received 3/13/97 from ASARCO. Pre-hearing conference to be scheduled by 3/28/97.

**Storage Permit Holder:** City of Tucson  
**Permit No:** 73-553493  
**Capacity:** 10,000 af  
**Duration of Permit:**  
**Long Term Storage Account No:**  
**Groundwater Savings Facility Agreement No:**

Capacity available to AWBA: af			
MONTH:	SCHEDULED:	PROJECTED:	ACTUAL:
JANUARY			
FEBRUARY			
MARCH			
APRIL			
MAY			
JUNE			
JULY			
AUGUST			
SEPTEMBER			
OCTOBER			
NOVEMBER			
DECEMBER			
<b>TOTALS (af)</b>			

ARIZONA WATER BANKING AUTHORITY  
STUDY COMMISSION  
Thursday, February 27, 1997  
10:00 a.m. - 12:00 p.m.

Arizona Department of Water Resources  
500 North Third Street  
Third Floor Conference Room A  
Phoenix, Arizona

AGENDA

- |      |   |   |
|------|---|---|
| I.   | Introduction  | Rita Pearson  |
| II.  | Water Banking Authority Status Report   | Jimmy Jayne   |
| III. | Report of Indian Issues Subcommittee  | Gary Hansen/<br>Mary Ann Antone                       |
| IV.  | Legislation Report  | Steve Olson   |
| V.   | Interstate Banking Discussion   |   |
|      | A. Legal Framework  | Paul Orme   |
|      | B. How will interstate banking transactions be structured?                                | Herb Dishlip  |
|      | C. Issues/concerns of an interstate banking state   | Jerry Edwards/ Colorado<br>River Commission of Nevada |
| VI.  | Group discussion of topics from previous meetings and the direction for upcoming meetings | All   |

Next Meeting Dates: Thursday, March 27, 1997 10:00 a.m.  
Thursday, April 24, 1997 10:00 a.m.

Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting the Arizona Water Banking Authority Study Commission at (602) 417-2440 or (602) 417-2455 (TDD). Requests should be made as early as possible to allow time to arrange the accommodation.