

# Briefing and Information on CAWCD and CAGRD rates, Capital Charges and Shortage Rate Cases April 14, 2022

Chris Hall Assistant General Manager, Finance & Administration Doug Dunlap Finance and Accounting Manager

# **Key Assumptions**

#### <u>General</u>

- ✓ Water rates are set to recover costs, on a long-term basis, net of other revenue
- ✓ Tier 1 shortage for base case
  - DCP mitigation not included
  - DCP mitigation increases water volumes and O&M costs and is rate neutral
- ✓ 500+ Plan for 2023 estimated at 93,000 acre-feet
  - Increases rate ~\$11/acre-foot
- ✓ Wheeling included at 4,000 acre-foot starting in 2026 and remains at that level
- ✓ No additional NIA reallocation included in rate period
- $\checkmark~$  Tiers Zero, 2a, 2b and 3 rates to be provided for planning purposes



# **Key Assumptions – cont'd**

General cont'd

3

- ✓ General ad valorem property tax rate held at 10¢
- ✓ Water storage tax held at maximum to be retained for federal repayment and CAWCD operational costs
  - 4¢ through 2024 and drops to 3¢ in 2025-2030
  - Following reserve funding guidelines utilizing proposed reserve targets
  - No Ag Settlement pool, therefore, no taxes needed for Ag Consideration
  - No set aside for Arizona Water Bank Authority LTSC purchases
- No tax contribution reduction on water delivery rates or federal repayment incorporated into proposed rates beyond previous action of 1.5¢ of 2021/22 General ad valorem taxes for repayment



# **Key Assumptions – cont'd**

<u>Power</u>

- ✓ Long-term contracts
  - Fully utilized during period
  - 2<sup>nd</sup> solar resources not available until the end of 2023
  - SRP Option expiring at the end of 2024
- ✓ Market purchases are currently unfavorable for uncontracted power needs, driving significant increases
- ✓ At lower levels of water deliveries, more significant shaping of energy may be possible, which could result in lower energy rates

#### Transmission

- ✓ Based on basic characteristics, variable costs are included in energy & fixed costs are included in O&M
- ✓ El Paso proposed increase included at a lower, more probable level



### **Ag Settlement**

- There will be no Ag Consideration in 2023 due to Shortage on the Colorado River.
  - Current projections indicate the likelihood of either Tier 1 or Tier 2a in 2023
    - 1075' <= Tier 1 > 1050'
    - 1050' <= Tier 2a > 1045'
  - Shortage volume increases by 80 KAF from Tier 1 to 2a
    - 512 KAF vs. 592 KAF





5

### **Water Volumes**

(KAF) Tier 1	2023	2024	2025	2026	2027	2028
	2025	2024	2023	2020	2027	2020
Municipal & Industrial Subcontract	656	661	661	663	665	668
Federal Contract	427	422	422	420	418	415
Ag Settlement Pool	0	0	0	0	0	0
Excess	0	0	0	0	0	0
Wheeled Water	0	0	0	4	4	4
CAGRD credit transfers	14	14	14	14	14	15
500+ Plan reduction	(93)	-	-	-	-	_
	1,004	1,097	1,097	1,101	1,101	1,101

## **Federal Repayment & Capital Charges**

#### Federal Repayment

- ✓ Basin Development Fund net revenues are applied toward repayment first
- ✓ Balance must be made up as a cash makeup payment
- ✓ Annually CAWCD Board determines if taxes are to be applied
- ✓ Balance of cash makeup payment are made from capital charges
- ✓ No taxes beyond previous commitments are incorporated into proposed rates

#### Capital Charges

- ✓ Paid on M&I allocations, regardless of water delivery
  - Hohokam CDR contract holders only pay if order any of this class of water previously excluded but current indications are is that it will be ordered (~47,000 acre-feet) which decreases the rate by \$3 per acre-foot each year from current advisory rates
- ✓ Not paid by federal and Ag Settlement Pool
- ✓ Must be used toward federal debt repayment on a cumulative basis
- ✓ Calculated after current tax considerations for repayment

### **Federal Repayment & Capital Charges**

	2023	2024	2025	2026	2027	2028
Federal Repayment	\$56,813	\$57,833	\$56,417	\$55,002	\$53,586	\$53,426
Total Basin Development Fund Credit	(8,994)	(9,060)	(9,127)	(9,196)	(9,265)	(9,337)
Net Cash Payment	\$47,819	\$48,773	\$47,290	\$45,806	\$44,321	\$44,089
<u>Taxes Applied:</u> 2021/22 – General Ad Valorem @ 1.5¢	(9,000)	-	-	-	-	-
Cash Needed from Capital Charges	\$38,819	\$48,773	\$47,290	\$45,806	\$44,321	\$44,089
Allocation* (acre feet) (Incl. CAGRD Credits & Wheeled Water)	726,208	726,208	726,365	730,398	730,414	730,441
	720,200	720,200	720,303	730,390	730,414	730,441
Capital Charge (\$ acre foot)	\$53	\$67	\$65	\$62	\$60	\$60

### Preliminary 2022-2028 Rate Components

	Firm	Firm	Provisional		Advisory								
Units = \$/acre-foot Tier	<b>2022</b>	2023 1	<b>2024</b>	<b>2025</b> 1	2026 1	2027 1	2028 1						
Capital Charges													
(A) M&I – Long Term Subcontract	\$50	\$53	\$67	\$65	\$62	\$60	\$60						
Delivery Charges													
Fixed O&M	\$103	\$127	\$118	\$125	\$133	\$142	\$146						
Big "R"	<u>\$33</u>	<u>\$37</u>	<u>\$41</u>	<u>\$41</u>	<u>\$43</u>	<u>\$47</u>	<u>\$47</u>						
(B) Fixed OM&R	\$136	\$164	\$159	\$166	\$176	\$189	\$193						
(C) Pumping Energy Rate	\$56	\$76	\$76	\$79	\$82	\$85	\$88						
(D) Full Rate Stabilization	\$(13)	\$(12)	\$ -	\$ -	\$ -	\$ -	\$ -						
(E) 2020 Voluntary Rate Stabilization	\$ -	\$ -	\$(11)	\$ -	\$ -	\$ -	\$ -						

Information Briefing on Rates - April 14, 2022

### Preliminary 2022-2028 Rate Schedule

llaite — ¢/eere feet					Advis	Advisory				
Units = \$/acre-foot The letter designations in the formulas refer to the Rates Components above			Provisional <b>2024</b>	2025	2026	2027	2028			
Tier	1	1	1	1	1	1	1			
M&I Subcontract (B + C)	\$192	\$240	\$235	\$245	\$258	\$274	\$281			
Federal Contract (B + C)	\$192	\$240	\$235	\$245	\$258	\$274	\$281			
Ag Settlement Pool (C)	\$56	\$76	\$76	\$79	\$82	\$85	\$88			
Excess (A + B + C)	\$242	\$293	\$302	\$310	\$320	\$334	\$341			

## **Preliminary Rates Compared to Advisory Rates**

Tier 1	2023
Fixed OM&R:	
Proposed	\$164
Advisory	\$143
Change	\$21

#### Fixed O&M Rate

- 500+ Plan adds \$11/AF in 2023
- El Paso Electric Rate issue adds \$3/AF for transmission costs
- 2023 budget was approved at \$7/AF higher than published rates, largely due to changes in water volumes, inflation, and staffing costs.

Tier 1	2023
Energy:	
Proposed	\$76
Advisory	\$57
Change	\$19

#### **Energy Rate**

- SOLAR Phase II will come online at the end of 2023, rather than at beginning 0f 2023 (still "on time" under contract)
- Additional market purchases may be required
- Energy prices are projected to rise considerably
- Tier 2a may reduce energy rate by a couple of dollars (more shaping)

# Fixed OM&R Rate at DCP Tiers

(For Planning Purposes Only)

Units = \$/acre-foot	2023	2024	2025	2026	2027	2028
Tior Zoro		¢ 404	ዮ 101	¢ 126	¢ 146	¢ 140
Tier Zero		\$ 124	\$ 131	\$ 136	\$ 146	\$ 148
Tier 1	\$ 164	\$ 159	\$ 166	\$ 176	\$ 189	\$ 193
Tier 2a	\$ 174	\$ 169	\$ 180	\$ 192	\$ 206	\$ 209
	*		T		•	•
Tier 2b		\$ 177	\$ 189	\$ 202	\$ 214	\$ 218
Tier 3		\$ 192	\$ 210	\$ 221	\$ 238	\$ 242

# **Authorization to Levy Taxes**

Arizona Revised Statues § 48-3715 and § 48-3715.02 authorize CAWCD to levy two distinct taxes in its service territory.

#### **General** Ad Valorem Tax

• Up to \$0.10 per \$100 of assessed valuation in the District

#### Water Storage Tax

• Up to \$0.04 per \$100 of assessed valuation







# **CAWCD Tax Rate History**

Tax Years	General Ad Valorem Tax	Water Storage Tax
1974-1983	\$0.03	N/A
1983-1984	\$0.05	N/A
1984-1988	\$0.07	N/A
1988-1995	\$0.10	N/A
1995-2000	\$0.10	\$0.04
2000-2003	\$0.09	\$0.04
2003-2007	\$0.08	\$0.04
2007-2013	\$0.06	\$0.04
2013-2022	\$0.10	\$0.04



**14** Information Briefing on Rates - April 14, 2022

### **General Tax Assumptions**



- Costs the owner of a \$250,000 LPV property home \$2.50 per year
- Generates approximately \$6.8 million in revenue
- Reduces Capital Charges by approximately \$9-10per acre-foot (AF)
- Reduces Fixed O&M or Energy Rates by ~\$5 per acre-foot (AF)



# **Tax Use Prioritization**





# **2022 Tax Use Decision Points**







# CAGRD Rates, Fees and Dues

### **CAGRD Revenue Stream**



19

# **CAGRD Key Assumptions**

- ✓ Forecasting higher level of enrollments, activations and obligations than previous rate case.
- ✓ Forecasts incorporate AMA-specific building projections
- ✓ Incorporating previous CAWCD rate reconciliation refunds
- ✓ Slowing down replenishment reserve progression
  - Current Replenishment Reserves ahead of where current 2015 Plan of Operation progress targets indicate (obligations also lagging behind)
  - Proposing to slow progress to more closely align progress with reliance
- ✓ Administrative rate covers all currently known expenses
- ✓ Activation & Enrollment Fees remain consistent with prior agreement for 2022/23 and 2023/24 and increase at 5% per year thereafter.
  - Met with several home builder and developer entities to share and discuss this methodology
- ✓ Ongoing need to build Infrastructure & Water Rights reserves
- ✓ Annual Membership Dues (AMDs) are set at the maximum allowable

#### CAGRD Obligation History and Forecast (Acre Feet -- Year Pumped)



# **Key Results**

<u>Composite Rates</u> – 3% under previous advisory rate

- ✓ Administrative rate component remains fairly consistent with previous rate case
- ✓ Water Replenishment rate component is lower than prior rate schedule
- ✓ Replenishment Reserve rates are lower than prior rate schedule due to slowing progression towards target
- Infrastructure and Water Rights rate component held consistent with previous levels

#### <u>Fees</u>

✓ No change from previous discussions

#### Annual Membership Dues (AMDs)

- ✓ 11%-15% increase as a result of an increase in I&WR revenues from other sources
  - AMDs can only be up to 25% of total projected I&WR collections

## **CAGRD** Rates

		er Zero		Tier 1		ier 1		Tier 1	-	Tier 1		Tier 1	-	Tier 1		īer 1
		-irm 21/22		Firm ) <u>22/23</u>	Provisional 2023/24		2024/25		Advis 2025/26			26/27	2027/28		Advisory 2022/23	
Discoving Active Management Area	<u></u>	<u>,</u>		<u></u>		<u></u>	<u>_</u>	21/20		20,20				,217,20	201	
Phoenix Active Management Area	¢	054	<b>^</b>	000	<b>^</b>	000	<b>^</b>		<b>^</b>	040	<b>~</b>		<b>^</b>	004	¢	000
Water & Replenishment Component <sup>1</sup>	\$	251	Þ	260	φ	293	\$	302	Ф	310	Þ	320	Þ	334	\$	266
Administrative Component <sup>2</sup>		50		49		48		48		48		47		47		49
Infrastructure & Water Rights Component <sup>3</sup>		353		353		353		353		353		353		353		353
Replenishment Reserve Charge <sup>4</sup>		114		103		98		101		103		107		111		120
Total Assessment Rate (\$/AF)	\$	768	\$	765	\$	792	\$	804	\$	814	\$	827	\$	845	\$	788
Pinal Active Management Area																
Water & Replenishment Component <sup>1</sup>	\$	272	\$	280	\$	312	\$	318	\$	321	\$	327	\$	341	\$	287
Administrative Component <sup>2</sup>		50		49		48		48		48		47		47		49
Infrastructure & Water Rights Component <sup>3</sup>		353		353		353		353		353		353		353		353
Replenishment Reserve Charge <sup>4</sup>		114		103		98		101		103		107		111		120
Total Assessment Rate (\$/AF)	\$	789	\$	785	\$	811	\$	820	\$	825	\$	834	\$	852	\$	809
Tucson Active Management Area																
Water & Replenishment Component <sup>1</sup>	\$	272	\$	280	\$	312	\$	318	\$	321	\$	327	\$	341	\$	287
Administrative Component <sup>2</sup>		50		49		48		48		48		47		47		49
Infrastructure & Water Rights Component <sup>3</sup>		353		353		353		353		353		353		353		353
Replenishment Reserve Charge <sup>4</sup>		114		103		98		101		103		107		111		120
Total Assessment Rate (\$/AF)	\$		\$	785	\$	811	\$	820	\$	825	\$	834	\$	852	\$	809
Contract Replenishment Tax - Scottsdale <sup>5</sup>																
Cost of Water	\$	213	\$	247	\$	293	\$	302	\$	310	\$	320	\$	334	\$	242
Cost of Transportation		n.a.	·	n.a.	•	n.a.	•	n.a.	•	n.a.		n.a.	·	n.a.		n.a.
Cost of Replenishment		n.a.		n.a.		n.a.		n.a.		n.a.		n.a.		n.a.		n.a.
Administrative Component <sup>2</sup>		50		49		48		48		48		47		47		49
Total Tax Rate (\$/AF)	\$	263	¢	296	\$	341	\$		\$	358	¢	367	¢	381	\$	291

Information Briefing on Rates - April 14, 2022

## **CAGRD Fees & Dues**

		Firm		Firm Provisional		Advisory							A	dvisory		
	<u>2</u>	021/22	2	022/23	2	023/24	2	<u>024/25</u>	2	025/26	2	026/27	2	2027/28	2	2022/23
<u>Units = \$/Unit</u>																
Enrollment Fee - Commercial Subdivisions <sup>6</sup>	\$	1,205	\$	1,307	\$	1,422	\$	1,493	\$	1,568	\$	1,646	\$	1,728	\$	1,307
Enrollment Fee <sup>6</sup>	\$	325	\$	347	\$	372	\$	391	\$	410	\$	431	\$	452	\$	347
Activation Fee - Minimum <sup>7</sup>	\$	323	\$	345	\$	370	\$	389	\$	408	\$	429	\$	450	\$	345
Activation Fee - Phoenix AMA <sup>7</sup>	\$	1,290	\$	1,400	\$	1,520	\$	1,596	\$	1,676	\$	1,760	\$	1,848	\$	1,400
Activation Fee - Pinal Post-2007 <sup>7</sup>	\$	1,290	\$	1,400	\$	1,520	\$	1,596	\$	1,676	\$	1,760	\$	1,848	\$	1,400
Activation Fee - Tucson AMA <sup>7</sup>	\$	880	\$	960	\$	1,050	\$	1,103	\$	1,158	\$	1,216	\$	1,276	\$	960
Member Land Annual Membership Dues (\$/Lot) <sup>8</sup>																
Phoenix Active Management Area	\$	25.46	\$	30.00	\$	32.36	\$	34.06	\$	34.64	\$	35.25	\$	35.36	\$	27.09
Pinal Active Management Area	\$	18.90	\$	23.38	\$	26.21	\$	28.64	\$	30.19	\$	31.81	\$	33.00	\$	20.63
Tucson Active Management Area	\$	29.07	\$	35.73	\$	38.88	\$	41.26	\$	42.28	\$	43.34	\$	43.77	\$	31.13
Member Service Area Annual Membership Dues (\$/AF) <sup>8</sup>	\$	95.51	\$	117.19	\$	131.34	\$	143.50	\$	151.28	\$	159.42	\$	165.38	\$	104.91



# Underground Water Storage Rates

# **Underground Water Storage Rates**

	Firm	Firm	Provisional	Advisory							
Units = \$/acre-foot	2022	2023	2024	2025	2026	2027	2028				
Underground Water Storage O&M											
Phoenix AMA	\$13	\$13	\$14	\$14	\$15	\$15	\$15				
Tucson AMA	\$15	\$15	\$15	\$15	\$15	\$15	\$15				
<u>Underground Water Storage Capital</u> <u>Charge</u>											
Phoenix AMA	\$15	\$15	\$15	\$15	\$15	\$15	\$15				
Tucson AMA	\$9	\$9	\$9	\$9	\$9	\$9	\$9				

✓ Underground Water Storage program reserves remain at adequate levels to support operations

 $\checkmark$  No change from advisory rates





# **Questions?**