

ID	Short Name of Credit Distribution or Recovery Method	How will non-CAP water be discharged into CAP System?	In what ways will CAP water be redirected?	How will additional pumping from wells happen?	How is water quality affected?	What are the capital costs relative to high, medium low?	What are the O&M costs relative to high, medium, low?	Who owns and/or operates the well?	What kind of additional water losses might occur beyond normal operation?	Will method impact the local aquifer (hydrologic impacts)?	How do you avoid a stranded asset?	What regulatory changes will be required to implement?	What kind of administrative infrastructure (e.g. permits and agreements) is required up front?	To what degree does this method recover outside the area of impact?	What is the legal character of the firming water?	How is this method transferable to others?	Maximum annual volume of firming?	Quick Issues	
1	Self-Firming (AWBA Credits)	No water will be discharged into the CAP system	No CAP water will be redirected	Pumping could increase if customers chose to pump recovered water from their own wells in place of a CAP direct delivery	Quality of CAP water is not affected	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	CAP customer who is self firming	Nominal	Potentially if new pumping is occurring	No CAP recovery assets will be used	None	Recovery Well Permit modification may be needed	Depends on CAP customer location relative to AWBA credit location	Legal character of the AWBA credit being recovered	Applicable to any well owners or lessees		Looks like proposal 19	
2	Credit Exchange Recovery- ADWR/AWBA/CAP	No water will be discharged into the CAP system	CAP water is delivered to a different TO	No additional pumping would occur	Quality of CAP water is not affected	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	CAP customer who is recovering on behalf of CAP	Nominal	Potentially if new pumping is occurring	No CAP recovery assets will be used	None	Recovery Exchange Agreement, Recovery Well Permit(s) held by CAP, Notice of Exchange, Reclamation approval	Depends on CAP customer location relative to AWBA credit location	Legal character of the water that was given in the exchange	Applicable to entities that rely on direct delivery of CAP water		having recovery wells inside a service permitted to CAP	
3	Indirect Recovery- ADWR/AWBA/CAP	No water will be discharged into the CAP system	No CAP water will be redirected	Recovered water delivered via non-CAP infrastructure	Quality of CAP water is not affected	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	CAP recovery partner who is recovering on behalf of CAP	Nominal	Potentially if new pumping is occurring	No CAP recovery assets will be used	None	Recovery Partnership Agreement, Recovery Well Permit(s), Reclamation approval	Depends on CAP customer location relative to AWBA credit location	Legal character of the AWBA credit being recovered	Applicable to entities that have access to advantageous non-CAP infrastructure		Can you get a general reclamation approval to ease administration	
4	Direct Recovery- ADWR/AWBA/CAP	Recovered water is discharged into the CAP system at a specific location	No CAP water will be redirected	New or leased wells be used	Recovered water may have to be treated	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	CAWCD through ownership or lease agreement	Nominal	Likely	Multiple use infrastructure	None	NOI, Recovery Well Permits	Depends on the location of the recovery well relative to AWBA credit location	Legal character of the AWBA credit being recovered	Applicable to entities that rely on direct delivery of CAP water		CAP related costs in this case	
5	Tucson Water - Leverage LTSC (Long-term Storage Credit) Accrual	No water will be discharged into the CAP system	CAP water scheduled for delivery to Tucson would instead be delivered elsewhere	Tucson Water's pumping regime would not change	Quality of CAP water is not affected	High - capital costs already invested by the City of Tucson - Tucson can be incentivized to not take full allocation	Medium - O&M costs already being incurred by City of Tucson	CAP customer who is self firming - in this case Tucson Water	None	Local aquifer will be impacted by the fact that less recharge is occurring while deliveries to Tucson Water customers remain the same	No CAP recovery assets will be used	None	Agreement to incentivize foregoing CAP deliveries during shortage	None	Credits are already Tucson Water credits - method preserves AWBA credits	Applicable to any entity willing to forego CAP deliveries during shortage		Impact on priorities; like AMWUA #20	
6	Tucson Water - Lower Santa Cruz Recovery using CAP Canal	Recovered water is discharged into the CAP system at a specific location	No CAP water will be redirected	New or leased wells will be used	Recovered water may have to be treated	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	Local Entity	Nominal	Likely	Multiple use infrastructure	None	NOI, Recovery Well Permits	Depends on the location of the recovery well relative to AWBA credit location	Legal character of the AWBA credit being recovered	Applicable to any entities downstream from point of recovery and addition to canal		Similar to direct delivery specific to southern AZ	
7	Tucson Water - SCIF (SRP Interconnect Facility)- (See #8)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8	SRP-CAP Interconnection Facility (SCIF)-SRP	Via newly constructed interconnect facility between SRP and the CAP	Maintains normal CAP operations; delivery point will remain unchanged	Recovery of LTSC will happen through utilizing existing SRP wells	Will be consistent with the CAP water quality task force recommendations	TBD	TBD	SRP	None	Only recovering water from within area of impact	Assets are existing and used as part of normal operations	Not required. Simplify exchange and recovery well permit process	Recovery well permits and exchange agreements	All recovery would occur within AOI				Initially looking at 25,000-50,000 acre-feet annually	

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9	Tucson Water - USF Credit Distributions for Non-Wheeling Partners	Recovered water is used by the recovery entity in lieu of CAP direct deliveries	Recovery entity foregoes direct CAP deliveries	Existing wells will be used	No change	Already expended	Already Expended	Local Entity	Nominal	Likely	Multiple use infrastructure	None	NOI, Recovery Well Permits	Depends on the location of the recovery well relative to AWBA credit location	Legal character of the AWBA credit being recovered	Applicable to any entities with CAP allocation		Recovery of costs already expended; allocation of partial costs of existing capital vs new capital; priority issue on CAP water
10	Tucson Water - AWBA Credit transfer pumped by Tucson Water	Recovered water is used by the recovery entity in lieu of CAP direct deliveries	Recovery entity foregoes direct CAP deliveries	Existing wells will be used	No change	Already expended	Already Expended	Local Entity	Nominal	Likely	Multiple use infrastructure	None	NOI, Recovery Well Permits	Depends on the location of the recovery well relative to AWBA credit location	Legal character of the AWBA credit being recovered	Applicable to any entities with CAP allocation		Recovery of costs already expended; already in existing wheeling agreements; allocation of partial costs of existing capital vs new capital.
11	Direct Credit Distribution, Recovery and Exchange	No information available																
12	SRP-CAP Operational Exchange	No physical discharge but rather through an exchange	Maintains normal CAP operations; delivery point will remain unchanged	SRP wells can be pumped to recover LTSC	No change	TBD	TBD	SRP	Transportation losses	Only recovering water from within area of impact	Assets are existing and used as part of normal operations	Not required. Simplify exchange and recovery well permit process	Recovery well permits and exchange agreements	All recovery would occur within AOI			Limited by amount of CAP water scheduled for the CSIF and SRP Shareholder commitments	Potential limitations on SRP well capacity to recover
13	GSF MSIDD Project (Brian's Idea)	No information available																
14	Arizona Water Company (AWC) - Proposal No.1 - Indirect Recovery Method	Non-CAP water will not be discharged into the CAP system	CAP water that was not delivered will be available to other CAP subcontractors	From CAWCD constructed recovery wells.	No change to CAP water quality	Medium - cost to develop wells by CAWCD	Relative to Low - no O&M cost to CAWCD or other subcontractors	CAWCD co-owns recovery well(s) with Subcontractor; recovery wells operated and maintained by subcontractor	None	Only to the extent recovering credits impacts aquifer	Recovery wells are multi-purpose	None	Recovery will permits, impact analysis, coordinating with subcontractor for groundwater water treatment plant	For existing credits recovered within GSF, no recovery outside are of impact				
15	AWC - Proposal No.2 - Combination of indirect recovery method with Direct Recovery Component	From strategically placed recovery wells	CAP water that was not delivered will be available to other CAP subcontractors	From CAWCD constructed recovery wells.	Consistent with Task Force water quality standards	Medium - cost to develop wells by CAWCD	Relative to Low - no O&M cost to CAWCD or other subcontractors	CAWCD co-owns recovery well(s) with Subcontractor; recovery wells operated and maintained by subcontractor	Minimal	Only to the extent recovering credits impacts aquifer	Recovery wells are multi-purpose	None	Recovery will permits, impact analysis, coordinating with subcontractor for groundwater water treatment plant	For existing credits recovered within GSF, no recovery outside are of impact				
16	AWC - Proposal No.3 - Indirect Recovery Method	Non-CAP water will not be discharged into the CAP system	M&I priority water is not delivered to the subcontractor but delivered to GSF	From CAWCD constructed recovery wells.	CAP water quality is not affected	Medium - cost to develop wells by CAWCD	Relative to Low - no O&M cost to CAWCD or other subcontractors	CAWCD co-owns recovery well(s) with Subcontractor; recovery wells operated and maintained by subcontractor	None	Only to the extent recovering credits impacts aquifer	Recovery wells are multi-purpose	Recovering credits outside of shortage or firming	Recovery will permits, impact analysis, coordinating with subcontractor for groundwater water treatment plant	For existing credits recovered within GSF, no recovery outside are of impact				
17	SAWUA - GSF Self-Firming	No water will be discharged into the CAP canal.	NA	Existing well and transmission infrastructure	Recovered water has already undergone treatment by SAT during recharge. No additional impacts expected.	NA	NA	M&I subcontractor	None	Minimal due to recovery within area of hydrologic impact.	Recovery within area of hydrologic impact.	None	Existing Recovery Permits	None				Note: Primarily 1 and 3 with the indirect component being wheeling

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18	SAWUA - USF Self-Firming	No Water will be discharged to the CAP Canal	NA	Existing well and transmission infrastructure	Recovered water has already undergone treatment by SAT during recharge. No additional impacts expected.	NA	NA	M&I subcontractor	None	Minimal due to recovery within area of hydrologic impact.	Recovery within area of hydrologic impact.	None	Existing Recovery Permits and Recovery Exchange Agreement for Inter-AMA firming, none for local recovery.	None				Note: Primarily 1 and 3 with the indirect component being wheeling
19	City of Mesa - Direct Credit Distribution/Self-Firming	No water will be discharged into the CAP system	No CAP water will be redirected	Recovered water delivered via non-CAP infrastructure	Quality of CAP water is not affected	Low	Low	Recovering subcontractor	None	Yes	No new assets to strand	Statutory change allowing AWBA to directly distribute LTSCs for M&I firming	Recovery Well Permit	Depends on the location of the recovery well relative to AWBA credit location	Legal character of the AWBA credit being recovered	Can be used by any subcontractor with adequate well capacity		
20	AMWUA - Resale of Subcontract Order During Shortage	No water will be discharged into the CAP system	CAP water is delivered to a different TO	No additional pumping would occur	Quality of CAP water is not affected	Low	Low	No wells are involved	None	No	No new assets to strand	None	Agreements to resell order. CAWCD and USBR approval	No impact	Project water	Can be used by any subcontractor storing water during shortage		