

		Operational					Hydrology			Regulatory			Cost			Other	Hydrology	Other	
ID	Method Category	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?	Who owns and/or operates the well?	Maximum annual volume of firming?	How is water quality affected?	Will method impact the local aquifer (hydrologic impacts)?	How will additional pumping from wells happen?	What regulatory changes will be required to implement?	What kind of administrative infrastructure (e.g. permits and agreements) is required up front?	What is the legal character of the firming water?	What are the capital costs relative to high, medium, low?	What are the O&M costs relative to high, medium, low?	How do you avoid a stranded asset?	How is this method transferable to others?	To what degree does this method recover outside the area of impact?	What kind of additional water losses might occur beyond normal operation?	Quick Issues
1	Self Firming	Self-Firming (AWBA Credits)	No water will be discharged into the CAP system	No CAP water will be redirected	CAP customer who is self firming		Quality of CAP water is not affected	Potentially if new pumping is occurring	Pumping could increase if customers chose to pump recovered water from their own wells in place of a CAP direct delivery	None	Recovery Well Permit modification may be needed	Legal character of the AWBA credit being recovered	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	No CAP recovery assets will be used	Applicable to any well owners or lessees	Depends on CAP customer location relative to AWBA credit location	Nominal	Looks like proposal 19
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	Local Entity		No change	Likely	Existing wells will be used	None	NOI, Recovery Well Permits	Legal character of the AWBA credit being recovered	Already expended	Already Expended	Multiple use infrastructure	Applicable to any entities with CAP allocation	Depends on the location of the recovery well relative to AWBA credit location	Nominal	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	Local Entity		No change	Likely	Existing wells will be used	None	NOI, Recovery Well Permits	Legal character of the AWBA credit being recovered	Already expended	Already Expended	Multiple use infrastructure	Applicable to any entities with CAP allocation	Depends on the location of the recovery well relative to AWBA credit location	Nominal	Recovery of costs already expended; already in existing wheeling ageements; allocation of partial costs of existing capital vs new capital.
17		SAWUA - GSF Self-Firming	No water will be discharged into the CAP canal.	NA	M&I subcontractor		Recovered water has already undergone treatment by SAT during recharge. No additional impacts expected.	Minimal due to recovery within area of hydrologic impact.	Existing well and transmission infrastructure	None	Existing Recovery Permits		NA	NA	Recovery within area of hydrologic impact.		None	None	Note: Primarily 1 and 3 with the indirect component being wheeling
18		SAWUA - USF Self-Firming	No Water will be discharged to the CAP Canal	NA	M&I subcontractor		Recovered water has already undergone treatment by SAT during recharge. No additional impacts expected.	Minimal due to recovery within area of hydrologic impact.	Existing well and transmission infrastructure	None	Existing Recovery Permits and Recovery Exchange Agreement for Inter-AMA firming, none for local recovery.		NA	NA	Recovery within area of hydrologic impact.		None	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	Recovering subcontractor		Quality of CAP water is not affected	Yes	Recovered water delivered via non-CAP infrastructure	Statutory change allowing AWBA to directly distribute LTSCs for M&I firming	Recovery Well Permit	Legal character of the AWBA credit being recovered	Low	Low	No new assets to strand	Can be used by any subcontractor with adequate well capacity	Depends on the location of the recovery well relative to AWBA credit location	None	
2	Credit Exchange	Credit Exchange Recovery- ADWR/AWBA/CAP	No water will be discharged into the CAP system	CAP water is delivered to a different TO	CAP customer who is recovering on behalf of CAP		Quality of CAP water is not affected	No additional pumping	No additional pumping would occur	None	Recovery Exchange Agreement, Recovery Well Permit(s) held by CAP, Notice of Exchange, Reclamation approval	Legal character of the water that was given in the exchange	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	No CAP recovery assets will be used	Applicable to entities that rely on direct delivery of CAP water	Depends on CAP customer location relative to AWBA credit location	Nominal	having recovery wells inside a service permitted to CAP

ID	Method Category	Short Name of Credit Distribution or Recovery Method	Operational				Hydrology			Regulatory			Cost			Other	Hydrology	Other	Quick Issues
			How will non-CAP water be discharged into CAP System?	In what ways will CAP water be redirected?	Who owns and/or operates the well?	Maximum annual volume of firming?	How is water quality affected?	Will method impact the local aquifer (hydrologic impacts)?	How will additional pumping from wells happen?	What regulatory changes will be required to implement?	What kind of administrative infrastructure (e.g. permits and agreements) is required up front?	What is the legal character of the firming water?	What are the capital costs relative to high, medium, low?	What are the O&M costs relative to high, medium, low?	How do you avoid a stranded asset?	How is this method transferable to others?	To what degree does this method recover outside the area of impact?	What kind of additional water losses might occur beyond normal operation?	
3	Indirect Recovery	Indirect Recovery ADWR/AWBA/CAP	No water will be discharged into the CAP system	No CAP water will be redirected	CAP recovery partner who is recovering on behalf of CAP		Quality of CAP water is not affected	Potentially if new pumping is occurring	Recovered water delivered via non-CAP infrastructure	None	Recovery Partnership Agreement, Recovery Well Permit(s), Reclamation approval	Legal character of the AWBA credit being recovered	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	No CAP recovery assets will be used	Applicable to entities that have access to advantageous non-CAP infrastructure	Depends on CAP customer location relative to AWBA credit location	Nominal	Can you get a general reclamation approval to ease administration
12		SRP-CAP Operational Exchange	No physical discharge but rather through an exchange	Maintains normal CAP operations; delivery point will remain unchanged	SRP	Limited by amount of CAP water scheduled for the CSIF and SRP Shareholder commitments	No change	Only recovering water from within area of impact	SRP wells can be pumped to recover LTSC	Not required. Simplify exchange and recovery well permit process	Recovery well permits and exchange agreements		TBD	TBD	Assets are existing and used as part of normal operations		All recovery would occur within AOI	Transportation losses	Potential limitations on SRP well capacity to recover
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	Subcontractor; recovery wells operated and maintained by subcontractor		No change to CAP water quality	Only to the extent recovering credits impacts aquifer	From CAWCD constructed recovery wells.	None	Recovery will permits, impact analysis, coordinating with subcontractor for groundwater water treatment plant		Medium - cost to develop wells by CAWCD	Relative to Low - no O&M cost to CAWCD or other subcontractors	Recovery wells are multi-purpose		For existing credits recovered within GSF, no recovery outside are of impact	None	
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	Subcontractor; recovery wells operated and maintained by subcontractor		CAP water quality is not affected	Only to the extent recovering credits impacts aquifer	From CAWCD constructed recovery wells.	Recovering credits outside of shortage or firming	Recovery will permits, impact analysis, coordinating with subcontractor for groundwater water treatment plant		Medium - cost to develop wells by CAWCD	Relative to Low - no O&M cost to CAWCD or other subcontractors	Recovery wells are multi-purpose		For existing credits recovered within GSF, no recovery outside are of impact	None	
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	Subcontractor; recovery wells operated and maintained by subcontractor		Consistent with Task Force water quality standards	Only to the extent recovering credits impacts aquifer	From CAWCD constructed recovery wells.	None	Recovery will permits, impact analysis, coordinating with subcontractor for groundwater water treatment plant		Medium - cost to develop wells by CAWCD	Relative to Low - no O&M cost to CAWCD or other subcontractors	Recovery wells are multi-purpose		For existing credits recovered within GSF, no recovery outside are of impact	Minimal	

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4	Direct Recovery	Direct Recovery-ADWR/AWBA/CAP	Recovered water is discharged into the CAP system at a specific location	No CAP water will be redirected	CAWCD through ownership or lease agreement		Recovered water may have to be treated	Likely	New or leased wells will be used	None	NOI, Recovery Well Permits	Legal character of the AWBA credit being recovered	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	Multiple use infrastructure	Applicable to entities that rely on direct delivery of CAP water	Depends on the location of the recovery well relative to AWBA credit location	Nominal	CAP related costs in this case
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	Local Entity		Recovered water may have to be treated	Likely	New or leased wells will be used	None	NOI, Recovery Well Permits	Legal character of the AWBA credit being recovered	Varies - dependent on infrastructure rehabilitation	Varies - dependent on infrastructure O&M	Multiple use infrastructure	Applicable to any entities downstream from point of recovery and addition to canal	Depends on the location of the recovery well relative to AWBA credit location	Nominal	Similar to direct delivery specific to southern AZ
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	SRP	Initially looking at 25,000-50,000 acre-feet annually	Will be consistent with the CAP water quality task force recommendations	Only recovering water from within area of impact	Recovery of LTSC will happen through utilizing existing SRP wells	Not required. Simplify exchange and recovery well permit process	Recovery well permits and exchange agreements		TBD	TBD	Assets are existing and used as part of normal operations		All recovery would occur within AOI	None	
5	Alternative Method	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	CAP customer who is self firming - in this case Tucson Water		Quality of CAP water is not affected	Local aquifer will be impacted by the fact that less recharge is occurring while deliveries to Tucson Water customers remain the same	Tucson Water's pumping regime would not change	None	Agreement to incentivize foregoing CAP deliveries during shortage	Credits are already Tucson Water credits - method preserves AWBA credits	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	No CAP recovery assets will be used	Applicable to any entity willing to forego CAP deliveries during shortage	None	None	Impact on priorities; like AMWUA #20
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 wells are involved		Quality of CAP water is not affected	No	No additional pumping would occur	None	Agreements to resell order. CAWCD and USBR approval	Project water	Low	Low	No new assets to strand	Can be used by any subcontractor storing water during shortage	No impact	None	
21		Opting Out	No water will be discharged into the CAP system	No CAP water will be redirected	No wells are involved		Quality of CAP water is not affected	No	NA	NA	No impact	Can be used by any subcontractor	Low	Low	No new assets to strand		No firming water is created	None	