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# Recovery Planning Implementation Update

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# Recovery Planning

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## 3 Main Categories of Recovery Planning

- Recovery agreements
- Feasibility and cost estimate studies for indirect and direct recovery
- Ongoing discussions between CAP and USBR on firming framework

# Recovery Planning

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## Recovery Agreements:

- Received comments back from ADWR and AWBA on the draft recovery partner agreement. Good progress to date.
- Agreed to develop an IGA describing how the organizations will implement recovery

# Recovery Planning

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## Feasibility and Cost Studies:

- Continued feasibility analyses and discussions with irrigation districts in Pinal and Phoenix on future recovery partnerships
- Obtained cost estimates for building direct recovery at TDRP
- Initiated discussions with MDWID (Tucson) about possible recovery infrastructure partnership at AVRP and LSCR

# Recovery Planning

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## TDRP Recovery Update Study Assumptions

- Pumping Scenario (3 Phases over time)
  - 2020-2029 (10,000 AFY from 3 wells)
  - 2030-2039 (20,000 AFY from 6 wells)
  - 2040-2045 (30,000 AFY from 9 wells)
- Total pumping from site 480,000 AF over 26 years
- Treatment of recovered water required – Primary MCLs
- Need adequate power to site

# Recovery Planning

**TABLE 2. SUMMARY OF CAPITAL AND O&M COSTS  
TDRP RECOVERY PLAN UPDATE**

	ESTIMATED COSTS <sup>1</sup>		
	Capital	O&M <sup>2</sup>	Total
<b>WELLFIELD</b>			
Recovery Wells	\$13,272,000	\$1,440,000	\$14,712,000
Wellfield Pumping Equipment & Pipelines	\$15,040,000	\$33,510,000	\$48,550,000
Subtotal Recovery Wellfield	\$28,312,000	\$34,950,000	\$63,262,000
<b>WATER TREATMENT</b>			
Treatment-Related Pumping	\$5,612,000	\$2,688,000	\$8,300,000
Treatment Option 1	\$50,850,000	\$16,796,000	\$67,646,000
Treatment Option 2	\$44,715,000	\$92,199,000	\$136,914,000
Subtotal Treatment, Option 1	\$56,462,000	\$19,484,000	\$75,946,000
Subtotal Treatment, Option 2	\$50,327,000	\$94,887,000	\$145,214,000
<b>POWER SUPPLY</b>			
Extending power to site <sup>3</sup>	\$4,200,000	---	\$4,200,000
<b>GRAND TOTAL</b>			
with Treatment Option 1	\$88,974,000	\$54,434,000	\$143,408,000
with Treatment Option 2	\$82,839,000	\$129,837,000	\$212,676,000

\$/AF over 26 years

Option 1 = \$298/AF

Option 2 = \$443/AF

**Notes**

<sup>1</sup>All costs are in 2015 dollars

<sup>2</sup>Total estimated O&M costs for 26-year recovery period

<sup>3</sup>Cost to extend power to TDRP site provided by CAP. Additional costs for possible upgrades to the transmission line that feeds the nearest substation, and costs for a cable network to distribute power to transformers at the site, are not included.

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# Recovery Planning

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## Potential Partnership with Metropolitan Domestic Water Improvement District

- MDWID early stages of a recharge, recovery and delivery system
- Potential opportunity for CAP partnership
- Opportunity to oversize a portion of their planned pipeline that could deliver recovered AWBA water from AVRA & LSCRIP to the CAP canal
- Would need a commitment from CAP by this time next year

# Issue Convergence

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- Recovery is a coordinated activity involving AWBA, ADWR, CAP, partners and beneficiaries, but Reclamation law and agreements between CAP and USBR must also be considered
- AWBA recovery is intersecting with issues that have arisen elsewhere, notably from discussions on wheeling and inter-AMA firming
  - E.g., scheduling priority, use of canal capacity and water quality standards
- Current efforts are focused on moving proposals forward, while ensuring coordination among the parties and concepts



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Questions