

2018 Accomplishments

Projects and Monitoring

1. Recharged approximately 2,700 acre-feet and precluded approximately 3,000 acre-feet of pumping this year at CCRN sites near the San Pedro River.
2. The Sierra Vista Environmental Operations Park, which has been operating since 2002, surpassed 10 billion gallons of recharged treated effluent (30,000 acre-feet).
3. Completed first year of operation of Horseshoe Draw Sediment Control and Stormwater Recharge project.
4. Palominas Flood Control and Recharge Pilot Project operated for a fourth year, testing various water infiltration methods.
5. A contract was awarded and engineering design initiated at Bella Vista project to recharge urban enhanced runoff along Coyote Wash.
6. Comprehensive surface water and groundwater monitoring has been established at all CCRN project sites. Baseline hydrologic monitoring is ongoing at Bella Vista, Three Canyons, and Riverstone project sites. Project performance monitoring is ongoing at Horseshoe Draw, Palominas and Sierra Vista EOP.
7. Acquired 104-acre property along the Babocomari River near Huachuca City to protect the largest tributary in the Sierra Vista subwatershed. The Nature Conservancy secured support from a volunteer organization to construct perimeter fencing.
8. Refined groundwater model simulations to demonstrate benefits of full CCRN buildout through 2075.

Funding

1. The City of Sierra Vista, Cochise County, and TNC continue to jointly fund the CCRN hydrologic monitoring and reporting program.
2. A \$560,000 grant from the USDA NRCS Watershed and Flood Protection Program to Cochise County. is funding the engineering design of the Bella Vista project.
3. CCRN secured funding for baseline groundwater monitoring at Babocomari parcel.
4. CCRN secured funding for partnership with Salt River Project to utilize “flowtography” method for surface water monitoring on Bella Vista parcel.

Outreach

1. CCRN logo was developed and CCRNSanPedro.org was launched. The website is hosted by the City of Sierra Vista.
2. CCRN provided support to the Sentinel Landscape Restoration Partnership for development of water project priorities as part of its strategic planning efforts.
3. CCRN members shared hydrologic monitoring and modeling results and conducted site tours of recharge network sites with various groups, including: Salt River Project, U.S. Bureau of Land Management, and Arizona Department of Water Resources.
4. CCRN members hosted a legislative tour of CCRN sites that included representatives of Governor Ducey's Office, the director of the Arizona Department of Water Resources, and several members of the Arizona legislature.
5. CCRN members provided periodic updates to the Upper San Pedro Partnership Technical Committee, including a presentation on the Bella Vista project.
6. Cochise County hosted a public meeting for area residents on the Bella Vista project.
7. CCRN members collaborated with the Bureau of Land Management to seek grant funding in support of an ecological assessment and vegetation enhancement projects near and within the San Pedro Riparian National Conservation Area.
8. Public presentations by CCRN included: Fort Huachuca Sentinel Landscape Showcase at Cochise College, and Annual Conference of National Groundwater Association, and the Getches-Wilkinson Center 2018 Summer Conference.
9. Local and regional media outlets ran several stories on the CCRN projects.

Total Amount of Water Conserved and Recharge in Network

	Horseshoe Draw	Palominas		Three Canyons	Riverstone	Sierra Vista EOP*	Bella Vista	Babocomari	Totals		
	Recharged	Conserved Precl. Pumping	Recharged	Conserved Retired Ag	Conserved Precl. Pumping	Recharged	Conserved Precl. Pumping	Conserved Precl. Pumping	Recharged	Conserved	
acres	30	285		480	1,811	50	2,984	104			Retired Ag
2015	--	24	--	--	--	2,700	--	--	2,700	--	24
2016	N/M	24	15	2,588	149	2,681	238	--	2,696	2,588	411
2017	N/M	24	11	2,588	149	2,714	238	--	2,725	2,588	411
2018	N/M	24	10	2,588	149	2,932	238	9	2,942	2,588	420
Total Conserved	--	96		7,764	447	--	714	9		9,030	
Total Recharged		--	36	--	--	11,027	--	--	11,063		
Total Water Savings		132		7,764	447	8,327	714	9	20,093		

Notes:

--not operational or not part of network at this time

N/M = not measured

*EOP consists of 50 acres of constructed wetlands, of which 30 acres are recharge basins; total includes recharge in all basins. Estimated for 2015

Precluded pumping is calculated based on the factor of 0.0825 AF/acre for RU4 zoning, as in the Biological Opinion for Fort Huachuca (2014)