

WATER RESOURCES PROJECTS COLORADO

Roller compacted concrete (RCC) has been used to construct large dams (dams over 50 feet high) in the United States since the first one was constructed in the early 1980's. Progress in design and construction over the ensuing decades have solidified RCC as an economical and resilient method to build large dams. See below for examples of successful large dam projects that have been completed in the state. Learn more by visiting [PCA's Dams Page](#).

● A red dot indicates RCC Dam project 50' and higher



Name	City	Date	Max Height (ft.)	Length (ft.)	RCC Volume (cy)	Cement (lb/cy)	Flyash (lb/cy)	Upstream Facing	Total Project Cost (\$ Millions) (2)	RCC Unit Cost (\$/cy) (2,3)	Owner	Designer	Contractor	River
Middle Fork	Parachute	1984	124	410	55,000	112	0	Formed Conventional Unreinforced Concrete	3.3	<25.00	Exxon Company	Morrison-Knudson Engineers	ASI (Avery Structures, Inc.)	Middle Fork
Stagecoach	Steamboat Springs	1988	150	380	44,000	120	130	Formed Conventional Unreinforced Concrete	6.1	30.08	Upper Yampa Water Conservancy District	Woodward Clyde Consultants	ASI-RCC Inc.	Yampa
New Peterson Lake	Ft. Collins	1995	63	260	9,300	275	0	Formed Conventional Unreinforced Concrete	1.6	48.63	City of Greeley	TEC/Smith Geotechnical	ASI-RCC Inc.	Tributary of Cache La Poudre

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Trout Creek	Buena Vista	2000	101	125	12,000	275	0	Formed Conventional Unreinforced Concrete	—	—	Paul Moltz	Steve Spann	ASI-RCC Inc.	Trout Creek
Pickle Jar	Central City	2001	53	186	4,330	290	0	Formed Conventional Unreinforced Concrete	—	75.00	Paradise Valley Estates	Applegate Group, Denver	ASI-RCC Inc.	North Clear Creek (Tributary)
Pine Brook	Boulder	2006	86	560	36,000	170	85	Precast Concrete Panels	4.5	60.00	Pine Brook Water District	TCB Inc.	ASI RCC Inc.	Two Mile Creek
Genesee #2	Morrison	2006	95	550	34,500	180	75	Formed Conventional Unreinforced Concrete	6.6	74.50	Genesee Water and Sanitation District	W.W. Wheeler & Associates	J.V. ASI Constructors and Flatiron Construction Corp.	Bear Creek

Notes:	
1.	The information contained herein was compiled by the Portland Cement Association and published for informational purposes only. The user of this information is responsible for confirming the accuracy or completeness of the information.
2.	RCC unit costs do not include mobilization costs.
3.	Cost information shown is nominal.