

# WATER RESOURCES PROJECTS NORTH CAROLINA

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
Buckhorn	Wilson	1996	51	2,500	87,000	150	0	Precast Concrete Panels w/ Internal Liner	16.2	47.00	Town of Wilson	Hazen & Sawyer	ASI-RCC Inc.	Contentea Creek
Randleman	Randleman	2002	102	1,800	92,000	150	75	Formed Conventional Unreinforced Concrete	20.5	56.04	Piedmont Triad Regional Water Authority	GEI Consultants Inc./ Hazen & Sawyer	ASI-RCC, Inc.	Deep
Deep Creek #5D	Yadkinville	2009	72	1,490	50,800	150	150	Grout-Enriched RCC Against Formwork	16.8	85.40 Average	Yadkin County and NRCS	Schnabel Engineering	Haymes Bros	Deep 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.	Cost information shown is nominal.
3.	RCC unit costs do not include mobilization costs.