Dam:	Tie Hack	Country	USA
River	South Fork Clear Creek	44°17'8.14"N 106°55'17.83"W	44.285595 -106.921616
Owner/Client	City of Buffalo		
Designer/Engineer	States West Water & Woodward Clyde Consultants		
Contractor	ASI RCC Inc (Moltz Construction)		

Purpose (code)	W
Site start	01.05.1996
RCC start	01.10.1996
RCC completion	31.08.1997
Site completion	31.12.1997
Height (m)	41
Length (m)	170
Volume of RCC (m^3x10^3)	62
Total volume (m^3x10^3)	69
Reservoir capacity (m^3x10^6)	3
Upstream slope	V
Forming of upstream face (code)	(1)
Downstream slope	0.80
Forming of downstream face (code)	(1) *
Spillway slope	0.80
Forming of spillway face (code)	(1) *
Depth of layers (mm)	300
Depth of lifts (mm)	300
Cement content (kg/m^3)	89
Pozzolan content (kg/m^3)	83
Code for pozzolan	(F)
RCCDAM Unique Serial No.	RCCDAM0187

Under Construction



RCCDAM0187UC

Completed Dam



RCCDAM0187CD

Google Earth



RCCDAM0187GE

Guide to Abbreviations

Purpose

E	Environmental
F	Flood control
G	Groundwater recharge
H	Flood control
I	Irrigation
N	Navigation
P	Pollution control
R	Recreation
W	Water supply

Facing method

(1)	Traditional concrete against formwork
(2)	Traditional concrete against formwork with external geomembrane
(3)	RCC against formwork
(4)	RCC against formwork with external geomembrane
(5)	Traditional concrete against precast concrete panels
(6)	Traditional concrete against precast concrete panels with geomembrane
(7)	RCC against precast concrete panels
(8)	RCC against precast concrete panels with geomembrane
(9)	RCC against precast concrete panels with hot poured membrane
(10)	RCC against precast concrete blocks
(11)	Reinforced conventional concrete cast before RCC placement
(12)	Reinforced conventional concrete cast after RCC placement
(13)	Reinforced concrete cast against precast units or slip-formed facing elements
(14)	Slip-formed/extruded facing elements
(15)	RCC supported by fill shoulders
(16)	Mechanically compacted unformed face of RCC
(17)	Unformed face of RCC
'	GEVR/GE-RCC
*	Stepped face

Pozzolans

(-)	No Pozzolan Used
(C)	High-lime flyash (ASTM Class C)
(F)	Low-lime flyash (ASTM Class F)
(M)	Milled sand
(N)	Natural pozzolan (ASTM Class N)
(R)	ROLAC (mixture of flyash and slag with or without limestone fines)
(S)	Ground-granulated blast-furnace slag
(L)	Mixture of GGBFS and limestone fines