Dam:	San Rafael	Country	Mexico
River	Santiago	21°46'52.34"N 104°53'14.79"W	21.781206 -104.887444
Owner/Client	CFE (Comisión Federal de Electricidad)		
Designer/Engineer	Comisión Federal de Electricidad (CFE)		
Contractor	Bufete Industrial Construcciones, S.A. de C.V.		

Purpose (code)	F H
Site start	28.11.1993
RCC start	11.05.1994
RCC completion	20.07.1994
Site completion	20.07.1994
Height (m)	48
Length (m)	176
Volume of RCC (m^3x10^3)	81
Total volume (m^3x10^3)	110
Reservoir capacity (m^3x10^6)	26
Upstream slope	V
Forming of upstream face (code)	(5)
Downstream slope	0.66 0.80
Forming of downstream face (code)	(3) *
Spillway slope	separate
Forming of spillway face (code)	*Unknown*
Depth of layers (mm)	300
Depth of lifts (mm)	300
Cement content (kg/m^3)	90
Pozzolan content (kg/m^3)	130
Code for pozzolan	(N)
RCCDAM Unique Serial No.	RCCDAM0141

Under Construction



RCCDAM0141UC

Completed Dam



RCCDAM0141CD

Google Earth



RCCDAM0141GE

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