

Dam: Yunishigawa

Country Japan

River Yunishi

36°56'10.72"N 139°39'43.69"E

36.93631 139.66214

Owner/Client Ministry of Land, Infrastructure, Transport and Tourism

Designer/Engineer CTI Engineering

Contractor Kajima Construction Co. Ltd. & Shimizu Corporation JV

Purpose (code) F I W

Site start 01.08.2008

RCC start 16.09.2009

RCC completion 28.05.2011

Site completion 30.09.2012

Height (m) 119

Length (m) 320

Volume of RCC ( $m^3 \times 10^3$ ) 967

Total volume ( $m^3 \times 10^3$ ) 1053

Reservoir capacity ( $m^3 \times 10^6$ ) 75

Upstream slope V  
0.60

Forming of upstream face (code) (1)

Downstream slope 0.78

Forming of downstream face (code) (1)

Spillway slope 0.78

Forming of spillway face (code) (1)

Depth of layers (mm) 250

Depth of lifts (mm) 1000

Cement content ( $kg/m^3$ ) 91

Pozzolan content ( $kg/m^3$ ) 39

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0499

## Completed Dam



RCCDAM0499CD

## Google Earth



RCCDAM0499GE

# 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