

Dam: Takizawa

Country Japan

River Nakatu

35°57'22.01"N 138°53'54.69"E

35.956116 138.898529

Owner/Client Japan Water Agency

Designer/Engineer Water Resources Development Public Corporation

Contractor Kajima Construction Co., Ltd., Kumagai-Gumi Co., Ltd. and Zenitaka-Gumi Co., Ltd. J.V.

Purpose (code) F N W

Site start 02.03.1999

RCC start 20.10.2001

RCC completion 12.06.2003

Site completion 31.03.2007

Height (m) 139

Length (m) 424

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 810

Total volume (m<sup>3</sup>x10<sup>3</sup>) 1670

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 63

Upstream slope 0.15  
0.70

Forming of upstream face (code) (1)  
(1)

Downstream slope 0.72

Forming of downstream face (code) (1)

Spillway slope 0.72

Forming of spillway face (code) (1)

Depth of layers (mm) 250

Depth of lifts (mm) 1000

Cement content (kg/m<sup>3</sup>) 84  
72

Pozzolan content (kg/m<sup>3</sup>) 36  
48

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0295

### Completed Dam



RCCDAM0295CD

### Google Earth



RCCDAM0295GE

# 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