

Dam: Satsunaigawa

Country: Japan

River: Satsunai

42°35'17.75"N 142°55'22.17"E

42.588264 142.922821

Owner/Client: Hokkaido Development Bureau

Designer/Engineer: Hokkaido Development Bureau

Contractor: Hazama-gumi Ltd., Chizaki Kogyo Co Ltd. and Mitsui Construction Co Ltd. J.V.

Purpose (code): F H I W

Site start: 01.02.1987

RCC start: 01.04.1991

RCC completion: 31.10.1995

Site completion: 31.03.1999

Height (m): 114

Length (m): 300

Volume of RCC ($m^3 \times 10^3$): 536

Total volume ($m^3 \times 10^3$): 770

Reservoir capacity ($m^3 \times 10^6$): 54

Upstream slope: 0.40

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): 250

Depth of lifts (mm): 750

Cement content (kg/m^3): 78

Pozzolan content (kg/m^3): 42

Code for pozzolan: (S)

RCCDAM Unique Serial No.: RCCDAM0158

Completed Dam



RCCDAM0158CD

Google Earth



RCCDAM0158GE

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