

Dam: Asari

Country Japan

River Asari

43°8'0.28"N 141°2'31.62"E

43.133411 141.042114

Owner/Client Hokkaido Prefecture

Designer/Engineer Hokkaido

Contractor Chizaki Kogyo Construction Co Ltd, Mitsui Construction Co Ltd and Yamada Construction Co Ltd (J.V.)

Purpose (code) F W

Site start 30.07.1986

RCC start 06.10.1987

RCC completion 22.09.1990

Site completion 25.03.1993

Height (m) 74

Length (m) 390

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 259

Total volume (m<sup>3</sup>x10<sup>3</sup>) 517

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 9

Upstream slope V  
0.30

Forming of upstream face (code) (1)  
(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) 180

Depth of lifts (mm) 500

Cement content (kg/m<sup>3</sup>) 96

Pozzolan content (kg/m<sup>3</sup>) 24

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0071

### Completed Dam



RCCDAM0071CD

### Google Earth



RCCDAM0071GE

# 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