

Dam: Nagai

Country Japan

River Okitamano

38°6'3.64"N 139°57'27.08"E

38.101009 139.95752

Owner/Client Ministry of Land, Infrastructure and Transport

Designer/Engineer Ministry of Land, Infrastructure and Transport

Contractor Hazama-Gumi Co. Ltd., Maeda Construction Kogyo Co Ltd. & Okumur-Gumi Co. Ltd. JV

Purpose (code) F H N W

Site start 25.03.2000

RCC start 01.10.2002

RCC completion 30.11.2006

Site completion 31.03.2011

Height (m) 126

Length (m) 381

Volume of RCC ($m^3 \times 10^3$) 703

Total volume ($m^3 \times 10^3$) 1200

Reservoir capacity ($m^3 \times 10^6$) 51

Upstream slope V
0.50

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

Downstream slope 0.73

Forming of downstream face (code) (1)

Spillway slope 0.73

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. RCCDAM0360

Completed Dam



RCCDAM0360CD

Google Earth



RCCDAM0360GE

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