

Dam: Mantaicheng

Country: China

River: Gayahe

43°9'20.02"N 129°43'40.32"E

43.15556 129.727859

Owner/Client: Wangqing County Water Conservancy Bureau

Designer/Engineer: Institute of Investigation & Design of Water Conservancy & Hydropower in Yanbian

Contractor: Construction team in Wangqing County (Jilin Construction Bureau)

Purpose (code): H I

Site start: 01.08.1992

RCC start: 01.01.1993

RCC completion: 30.12.1996

Site completion: 30.08.1997

Height (m): 37

Length (m): 337

Volume of RCC ($m^3 \times 10^3$): 78

Total volume ($m^3 \times 10^3$): 100

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

Upstream slope: V

Forming of upstream face (code): (1)

Downstream slope: 0.75

Forming of downstream face (code): (10)

Spillway slope: ogee
0.70

Forming of spillway face (code): (1)
(1)

Depth of layers (mm): 300

Depth of lifts (mm): 1000

Cement content (kg/m^3): 60

Pozzolan content (kg/m^3): 120

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0176

Google Earth



RCCDAM0176GE

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