

Dam: Gümüşhane Bahçecik

Country Turkey

River Şenkale Deresi

40°27'36.01"N 39°36'6.75"E

40.459686 39.601654

Owner/Client DSI - State Hydraulic Works

Designer/Engineer Unknown

Contractor Durmaz Yatirim Insaat AS

Purpose (code) W

Site start 08.06.2017

RCC start 28.11.2018

RCC completion 31.12.2021

Site completion 31.12.2022

Height (m) 67

Length (m) 273

Volume of RCC ( $m^3 \times 10^3$ ) 148

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

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

Upstream slope 0.10

Forming of upstream face (code) (1)

Downstream slope 0.80

Forming of downstream face (code) (1) \*

Spillway slope Unknown

Forming of spillway face (code) Unknown

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content ( $kg/m^3$ ) Unknown

Pozzolan content ( $kg/m^3$ ) Unknown

Code for pozzolan (N)

RCCDAM Unique Serial No. RCCDAM0165

## Google Earth



RCCDAM0165GE

# 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