

Dam: San Vicente Dam Raise

Country USA

River San Diego

32°54'44.68"N 116°55'30.82"W

32.912411 -116.925224

Owner/Client San Diego County Water Authority and City of San Diego

Designer/Engineer MWH

Contractor Shimmich/Obayashi JV

Purpose (code) W

Site start 01.06.2009

RCC start 12.09.2011

RCC completion 21.09.2012

Site completion 30.09.2014

Height (m) 103

Length (m) 474

Volume of RCC (m³x10³) 459

Total volume (m³x10³) 465

Reservoir capacity (m³x10⁶) 299

Upstream slope V

Forming of upstream face (code) (4')

Downstream slope 0.78

Forming of downstream face (code) (3') *

Spillway slope 0.78

Forming of spillway face (code) (3') *

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m³) 86

Pozzolan content (kg/m³) 127

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0545

Under Construction



RCCDAM0545UC

Completed Dam



RCCDAM0545CD

Google Earth



RCCDAM0545GE

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