

Dam: **Smithland**

Country **USA**

River **Ohio**

37°10'12.13"N 88°25'6.29"W

37.170036 -88.418411

Owner/Client **American Municipal Partners (AMP)**

Designer/Engineer **MWH-Stantec**

Contractor **C.J. Mahon**

Purpose (code) **H**

Site start **19.12.2011**

RCC start **12.03.2014**

RCC completion **29.10.2014**

Site completion **31.07.2017**

Height (m) **33**

Length (m) **153**

Volume of RCC ($\text{m}^3 \times 10^3$) **120**

Total volume ($\text{m}^3 \times 10^3$) *Unknown*

Reservoir capacity ($\text{m}^3 \times 10^6$) *Unknown*

Upstream slope **0.80**

Forming of upstream face (code) **(10)**

Downstream slope **0.80**

Forming of downstream face (code) **(10)**

Spillway slope **separate**

Forming of spillway face (code)

Depth of layers (mm) **230**

Depth of lifts (mm) **230**

Cement content (kg/m^3) **118**

Pozzolan content (kg/m^3) **64**

Code for pozzolan **(F)**

RCCDAM Unique Serial No. **RCCDAM0966**

Under Construction



RCCDAM0966UC

Completed Dam



RCCDAM0966CD

Google Earth



RCCDAM0966GE

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