

# San Pedro Creek Tunnel System

## Project Information

- Project Administrators
  - United States Army Corps of Engineers
  - San Antonio River Authority
- Project Design
  - United States Army Corps of Engineers
  - San Antonio River Authority
- Construction
  - Inlet channel start (Rosiek Corp) December 1986
  - Outlet channel start November 1987
  - Tunnel start (Obahasyi Corp) November 1987
  - Tunnel operational June 1991
  - Recirculation system operational (3 pumps @ 7 cfs each) June 1997
  - Tunnel system cost (Fed - 90% & local – 10%) \$38.8M
- Dimensions (Tunnel system)
  - Depth below the surface 140 feet
  - Diameter 24.33 feet
  - Length 6,060 feet
- Dimensions (Shafts)
  - Inlet Shaft
    - i. Diameter 24 feet
    - ii. Height/Length 119 feet
  - Outlet Shaft
    - i. Diameter 35 feet
    - ii. Height/Length 144 feet
  - Maintenance Shaft
    - i. Diameter 18 feet
    - ii. Height/Length 116 feet
  - Ventilation Shafts (2 each)
    - i. Diameter 4 feet
    - ii. Height/Length 118 feet
- Design Capacity (100 year event)
  - Down tunnel 4,600 cfs
  - Bypass tunnel to San Pedro Creek channel 550 cfs
  - Outlet velocity 10 fps