

NORTH FORK OF THE SMITH RIVER DAM

Fact Sheet

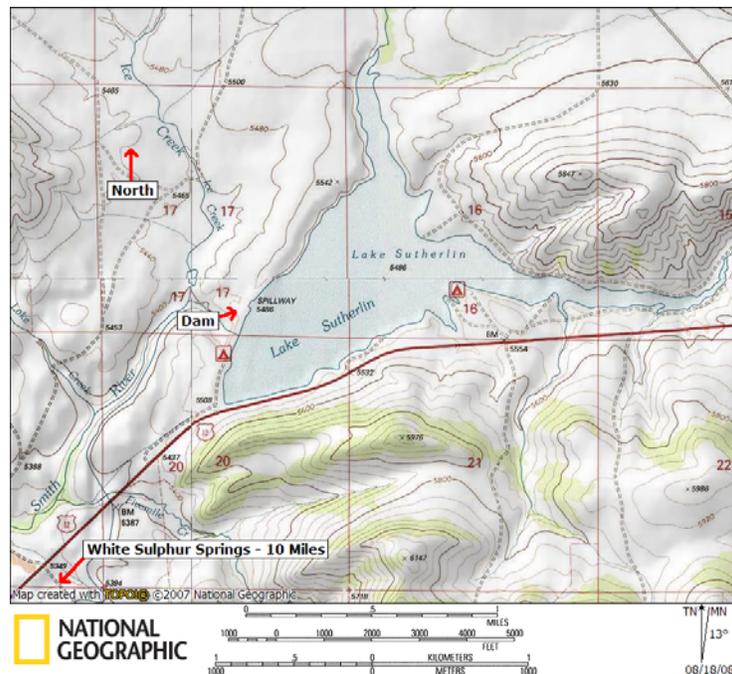
PROJECT DESCRIPTION

- ◆ Located on the North Fork of the Smith River in Meagher County, 10 miles East of White Sulphur Springs
- ◆ Construction completed in 1936
- ◆ Owned by DNRC & managed by SWPB
- ◆ Operated by the North Fork of the Smith River Water Users Association since 1936
- ◆ Project consists of:
 - Earthen Embankment Dam, 84 feet high, 1,300 feet long
 - Labyrinth weir spillway with excavated rock channel
 - Gated, reinforced concrete outlet conduit
 - 5 foot by 5 foot reinforced concrete, modified horseshoe shaped conduit with manually operated 54- inch butterfly operating gate and 54-inch diameter slide guard gate
- ◆ Normal storage is 11,500 acre-feet, covering 335 surface acres.
- ◆ The dam is a “high hazard” structure, which means that its failure could cause loss of life. Numerous roads, bridges, and utilities are located in the flood plain.



WATER USE

- ◆ 29 water users have 40 contracts for 11,000 acre-feet; delivered by one canal (Southside Canal; 13.2 miles long)
- ◆ Primary water use is for irrigation; the reservoir is a popular recreation site as well.



REHABILITATION SUMMARY

The North Fork of the Smith Dam was rehabilitated in 2006. The rehabilitation project included:

- ◆ Constructing a new two-cycle labyrinth weir concrete spillway
- ◆ Raising and leveling the dam crest
- ◆ Replacing the outlet works terminal structure with a new structure
- ◆ Enlarging the rock spillway channel
- ◆ Constructing a stability berm at the toe of the dam
- ◆ Installing new drains for seepage control
- ◆ Project Cost: \$825,000

FUTURE NEEDS

- ◆ The project was rehabilitated in 2006 and meets or exceeds current dam safety standards. No deficiencies currently exist.



Spillway



Upstream Face



Downstream Face