

Ellison Creek Dam and Ellison Creek Reservoir

OWNER

Lone Star Steel Company.

ENGINEER

John V. W. Reynders.

LOCATION

On Ellison Creek in Morris County, 8 miles south of Daingerfield.

DRAINAGE AREA

37 square miles. Water supply is supplemented by pumping from Cypress Creek into the reservoir.

DAM

Type	Earthfill
Length	4,000 ft
Maximum height	48.5 ft
Top width	18 ft
Top elevation	280.1 ft above msl

SPILLWAY (emergency)

Location	Right of the dam
Type	Natural embankment
Crest length	1,500 ft
Crest elevation	273.1 ft above msl

SPILLWAY (service)

Location	Left end of the dam
Type	Concrete
Control	None
Crest length	300 ft
Crest elevation	268.1 ft above msl

OUTLET WORKS

Water is pumped from the reservoir for powerplant condenser cooling, ore washing, and general plant use. The low-flow outlet is a 36-inch pipe with invert at elevation 235.1 feet above mean sea level.

STATE AUTHORIZATION

Permit No. 1405 (Application No. 1437), March 15, 1947, authorized construction of a dam to create a reservoir of 26,000 acre-feet capacity and use of 80,000 acre-feet of water annually for industrial purposes.
Permit No. 1405A (Application No. 1437A), May 10, 1972, partially cancels Permit No. 1405 reducing consumptive use of not to exceed 23,000 acre-feet of water. Allows diversion of water from Cypress Creek as needed to maintain storage of 24,700 acre-feet of water in Ellison Creek Reservoir while providing for circulation of water through the industrial system.
In addition to Ellison Creek Reservoir, permittee is authorized to maintain 4 existing dams and impound water and use as settling basins.

RESERVOIR DATA (from Lone Star Steel Company)

Capacity is 24,700 acre-feet with an area of 1,516 acres at service spillway elevation 268.1 ft above msl.

GENERAL

Project originally owned by Defense Plant Corporation	
Construction started	1942
Construction completed	April 1943
Storage began	January 1943

