

**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

