

STRUCTURE 121

This structure is a single-barreled reinforced concrete box culvert, located on Canal 100-C at Kendall Drive (State Road #94) near the junction of C-100C and C-2. Control is effected by a manually operated sluice gate mounted on a reinforced concrete head structure.

PURPOSE

This structure divides the drainage areas of C-2 and C-100C and provides for division of water when available for recharge of C-100C above S-119.

OPERATION

Although no specific operating criteria are developed, certain general principles are followed in either the flood or low-water conditions as follows:

Flood Conditions

The gate will be closed when releases would aggravate flood conditions thus preventing flow from the C-2 drainage area from entering the C-100C drainage area.

Low-water Conditions

During low-water conditions, minimum releases will be made, when water is available, to meet irrigation and salinity repulsion requirement in the C-100C drainage area. The maximum of such releases will be 100 c.f.s.

FLOOD DISCHARGE CHARACTERISTICS

	Design	Standard Project Flood
Discharge Rate	<u>100</u> cfs	<u> </u> cfs
	<u> </u> * % SPF	<u>100</u> % SPF
Headwater Elevation	<u>2.9</u> feet	<u> </u> feet
Tailwater Elevation	<u>2.8</u> feet	<u> </u> feet
Type Discharge	controlled <u>submerged</u>	<u> </u>

*The design of this structure is based on regulated discharges for water supply and salinity control and is not related to flood control.

DESCRIPTION OF STRUCTURE

Type reinforced concrete, box culvert with upstream control

Number of barrels 1

Size of barrels 8' X 8'

Length of barrels 128 ft.

Flow line elevation -4.5 feet

Service Bridge Elevation 16.4 feet

Water Level which will by-pass structure 7.5 feet

Gates

Number 1

Type vertical slide gate

Size 8' X 8'

Control manual

Lifting Mechanism pedestal mounted manually operated hoist

Date of Transfer: December 15, 1965

ACCESS: Structure located on shoulder of State Road #94

Points of possible flooding _____

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level upstream & downstream staff gauges only

Gate Position Recorder none

Other _____

DEWATERING FACILITIES None