

STRUCTURE G-349B

Pump station G-349B is located on the east perimeter levee at the northeast corner Stormwater Treatment Area 5 (STA-5), at the point that the discharge canal bends to the east.

PURPOSE

The purpose of this pump stations is to provide supplemental water to the STA by moving water from the STA-5 discharge canal into the north seepage collection canal during periods of drought. In this mode, pump station G-349A will be activated along with G-349B to pump the water from the seepage collection canal into treatment cell 1A. Water quality sampling will occur at the pump station in accordance with Rule 40E-63.

OPERATION

The pump station has a single 24-inch diameter axial flow pump with a 125-Hp electric powered engine. The pump has a discharge capacity of 39 cfs at a maximum static head of 11 ft. The station is operated manually. Telemetry status of each pump station is available. Telemetry headwater and tailwater data are also available, while headwater/tailwater staff gauges are available for local operation. The factory test report, including performance curves, for these pumps are contained in the project files.

Additional operational guidance for the G-349B is based on best professional judgement of operating personnel, taking field condition factors into consideration such existing water levels within the treatment cells, existing vegetative conditions, off-site conditions and seasonality.

DISCHARGE CHARACTERISTICS

Discharge capacity: 39 cfs at a maximum static head of 11 ft

DESCRIPTION OF STRUCTURE

Number of pumps: One

Design headwater elevation: N/A

Design low water (headwater) elevation:	7.0 ft
Design tailwater elevation:	9.0 ft
Nominal pump operating speed:	735 rpm
Normal “on elevation”:	Subject to drought conditions
Normal “off elevation”:	Subject to drought conditions
Motor size:	125 Hp
Motor speed:	1780 rpm
Centerline discharge connection:	17.0 ft
Pump station floor elevation:	14.0 ft
Intake floor elevation:	-1.4 ft

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Staff gauges: On-site staff gauges for local operation and analog and remote digital headwater & tailwater recorders.

Telemetry system: One electric pump on telemetry control, pump monitored for status.

Date Acceptance into Service: October 1999 *

* Temporary operations authorized for 14-day period in response to Hurricane Irene. Routine operations began June 2000.

ACCESS: This pump station is located on the eastern perimeter levee of STA-5. From US 27 take CR 835 South, left on L-1 Borrow Canal Levee 11 miles south to STA-5.