

LOWER KISSIMMEE BASIN STORMWATER TREATMENT AREA (LKBSTA)

In response, FDEP adopted Lake Okeechobee's first Basin Management Action Plan (BMAP) in 2014 to identify projects and programs that would restore water quality in the lake. The Lower Kissimmee Basin Stormwater Treatment Area (LKBSTA) is one of several projects included in the BMAP to reduce phosphorus levels and reach the desired TMDL of phosphorus in the lake.

The proposed project will extract 9 to 13 mt/yr of phosphorus from runoff north of Lake Okeechobee, with the potential for future expansion to further extract phosphorus amounts.

PROJECT OPERATIONS

The project will use pumps to intercept phosphorus-heavy water from two canals that run into Lake Okeechobee (L-62 and C-38), treat it through man-made wetlands to absorb a portion of phosphorus and then direct treated water back into a rerouted canal that runs into Lake Okeechobee.

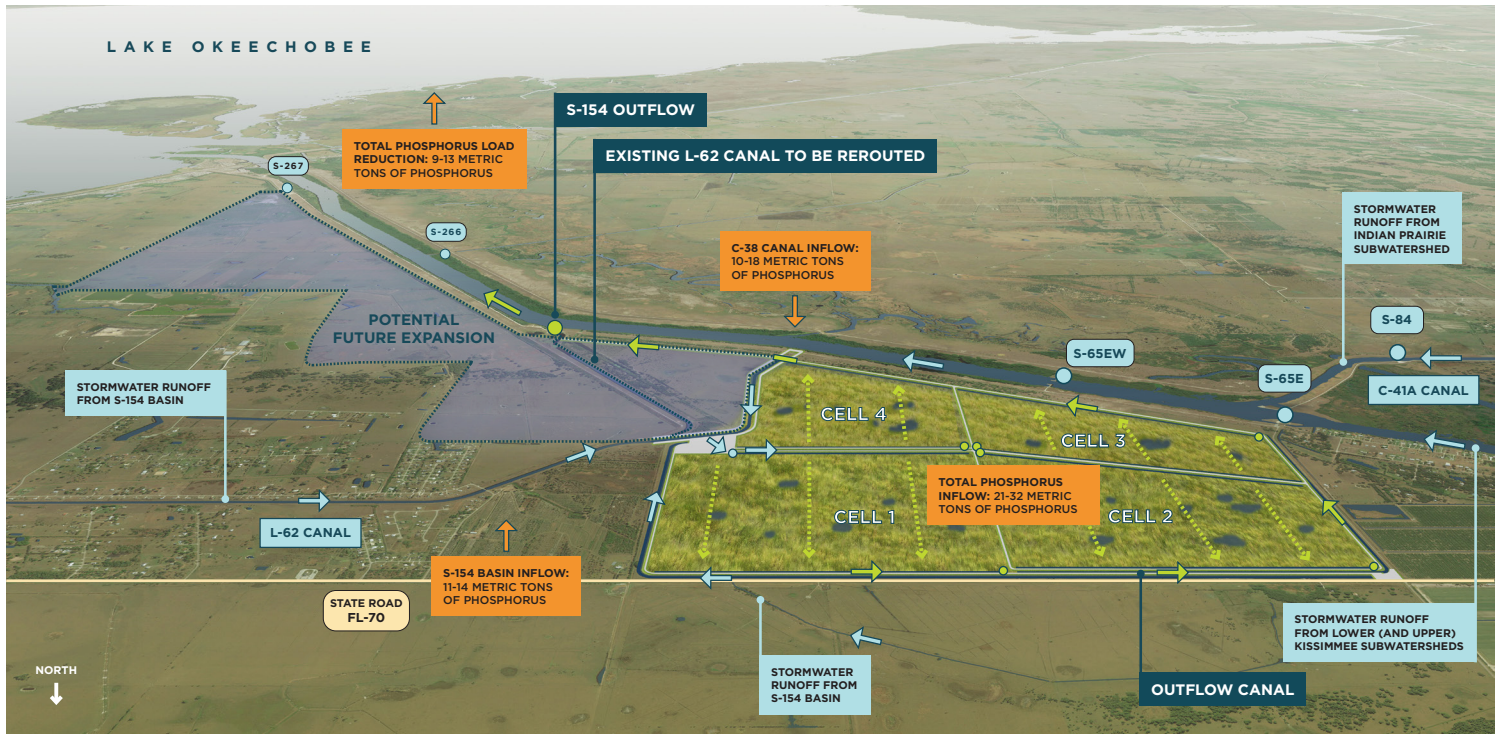
PROJECT DETAILS

- Located on roughly a 2,000-acre property north of Lake Okeechobee along the Kissimmee River
- Controlled wetland with public accessibility for recreational activities such as bicycling, hiking and nature-watching
- Four treatment cells
- Includes rerouting a portion of the L-62 canal
- Proposed expansion includes two to four additional treatment cells to remove more phosphorus amounts

WHY THIS LOCATION?

Data and analyses show that it is critical to reduce phosphorus in watersheds north of Lake Okeechobee in order to effectively reduce phosphorus levels within the lake. About half of the annual TP loads into the lake enter from the Kissimmee River (C-38 canal).

	PROPOSED PROJECT	POTENTIAL FUTURE EXPANSION		
Project Components	1,600 acre STA (4 cells) 375 cfs inflow pump station	2,700 acre STA (6 cells) 500 cfs inflow pump station	3,800 acre STA (8 cells) 625 cfs inflow pump station	Innovative Treatment Area
Projected Annual Inflow TP Load	S-154 = 11-14 metric tons C-38 Canal = 10-18 metric tons (includes 1-3 mt from Lake O) Total = 21-32 metric tons	S-154 = 13-14 metric tons C-38 Canal = 18-26 metric tons (includes 2-6 mt from Lake O) Total = 31-40 metric tons	S-154 = 14-15 metric tons C-38 Canal = 19-36 metric tons (includes 2-10 mt from Lake O) Total = 33-51 metric tons	TBD
Projected Annual TP Load Reduction with Project	9-13 metric tons (~41-43%)	14-17 metric tons (~43-45%)	20-22 metric tons (~43-61%)	3-6 metric tons
Anticipated Total Expansion Project TP Reductions	23-28 metric tons			



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