

# Nubbins Slough Stormwater Treatment Area (STA)



<b>Location:</b>	Okeechobee County
<b>Subwatershed:</b>	Taylor Creek/Nubbin Slough
<b>Basin:</b>	S-191
<b>Purpose:</b>	The purpose of this STA is to divert and treat runoff from Nubbin Slough. This will be accomplished by pumping water from Nubbin Slough into the STA. Water will then discharge back to the slough through three outlet structures on the west side of Cell 2.
<b>Project Operation Start:</b>	September 2006
<b>Considerations/Update:</b>	<ol style="list-style-type: none"><li>1. Operation of the STA has incurred frequent suspensions due to mechanical problems, sedimentation, post tropical storm Isaac repairs, repair of cracks in the by-pass weir and outflow culverts.</li><li>2. Low basin runoff has limited STA inflows which has resulted in dry out and impeded establishment of wetland vegetation.</li><li>3. Inflow pump is oversized and cannot efficiently operate for the actual flow conditions.</li><li>4. Defects in levees have required stage restrictions since start up.</li><li>5. Recommendations:<ul style="list-style-type: none"><li>• Retrofit inflow pump station to operate within actual inflow and stage conditions;</li><li>• Complete levee repairs to remove stage restrictions; and</li><li>• Continue treating exotics and promoting wetland vegetation growth.</li></ul></li></ol>

Parameter	2011 LOWCP Planned	Designed <sup>1</sup>	Built/Observed	Comments
Treatment Area (acres)	809	809	809	Effective treatment area for the constructed STA is 773 acres. That is the flow path that contains the treatment vegetation within Cells 1 and 2.
Annual TP removal (mt/yr)	5.0	5.3	0.186 <sup>2</sup>	
Average Annual Inflow (ac-ft)	NA	8,838	702 <sup>2</sup>	
Inflow TP FWMC (µg/L)	NA	515	893 <sup>2</sup>	
Outflow TP FWMC (µg/L)	NA	43	887 <sup>2</sup>	
Construction Cost	N/A	\$9,172,697	\$11,265,266	
Average Annual Cost (O&M + Monitoring) <sup>3</sup>	N/A	NA	\$117,000	

**Notes**

<sup>1</sup> Stanley Consultants, Inc., 2003

<sup>2</sup> Water year 2018 performance

<sup>3</sup> For the period of 2008 - 2018