

Lake County Water Authority Project Updates

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Water Resources Director



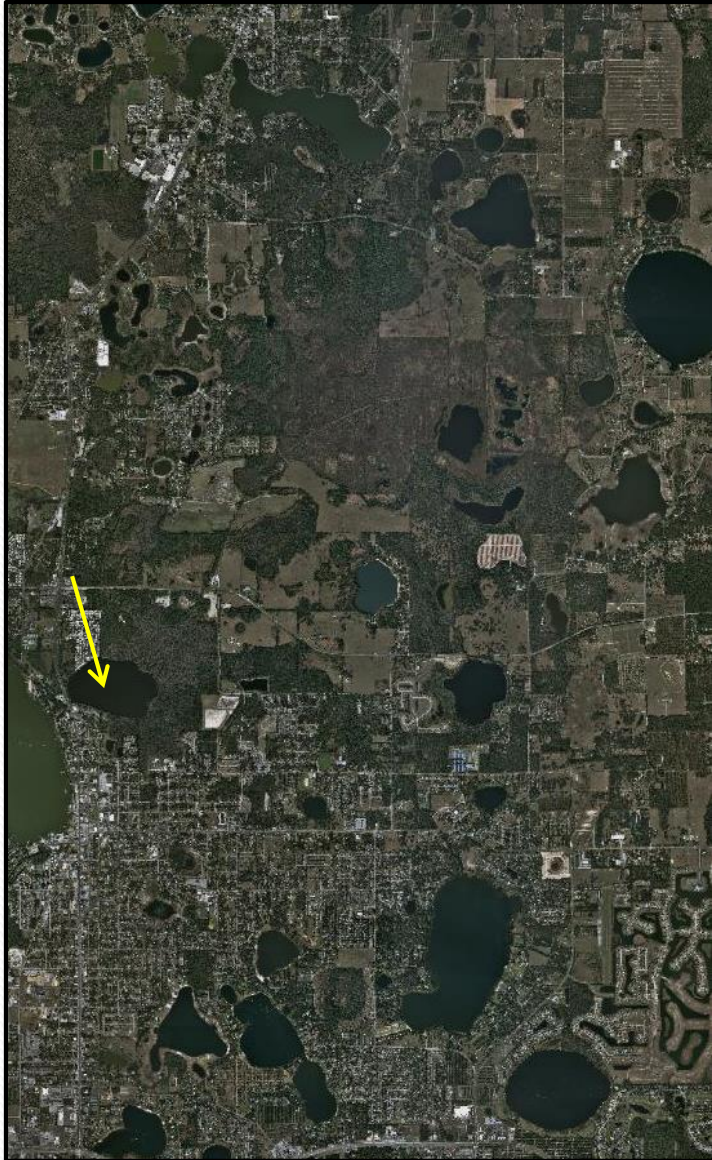
Lake Yale Nutrient Budget



Legend	Area, km ²	% of area
Water (49)	17.806	29.37%
Wetland (229)	13.387	22.08%
Agriculture (105)	9.061	14.94%
Urban (112)	7.746	12.78%
Forest (86)	7.702	12.70%
Upland nonforested (73)	4.547	7.50%
Transportation, Communication, Utilities (13)	0.380	0.63%
Barren land (1)	0.000	0.00%
	60.629	

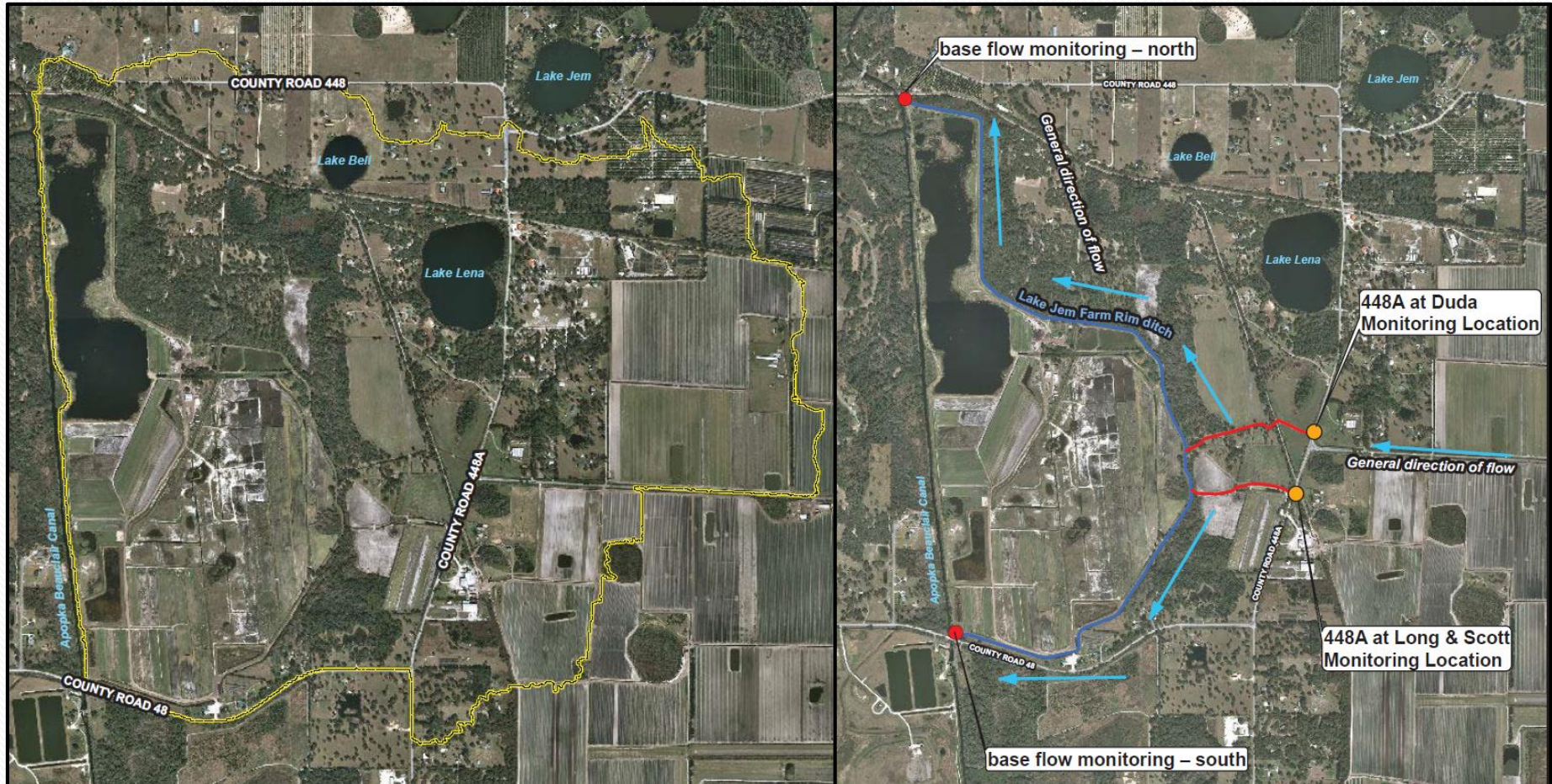
- Big Lake (4030 ac.) Small Watershed
- Report will be presented to the LCWA Board on May 24, 2017.

Trout Lake Nutrient Budget



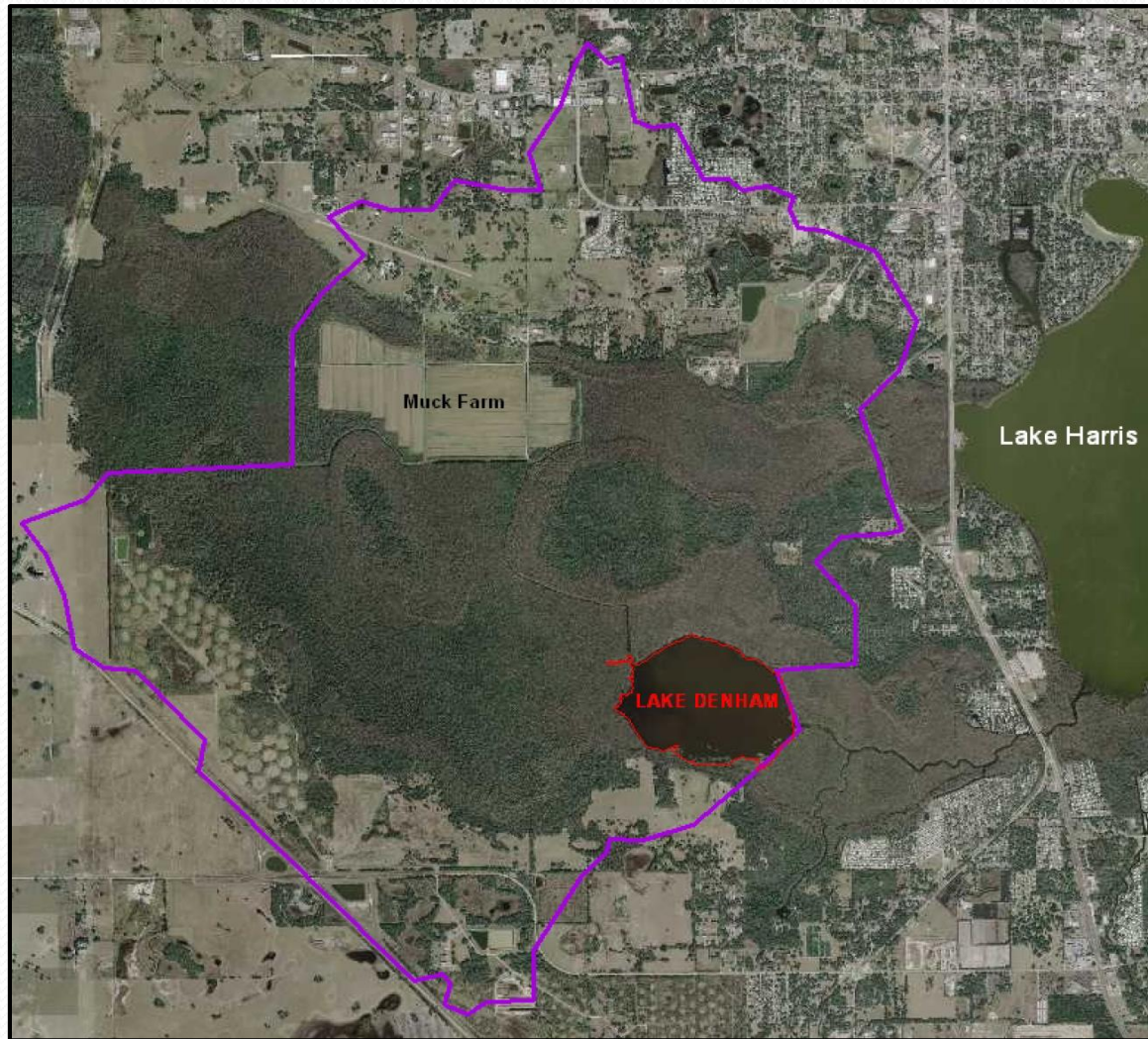
- Small Lake (297 ac.) Big Watershed
- Report will be presented to the LCWA Board on May 24, 2017.
- Alum Injection Facility is nearing completion.

Apopka/Beauclair Canal Ag Ditch Loadings



- Report along with a list of project alternatives shall be presented to the LCWA Board on March 22, 2017.

Lake Denham Muck Farm

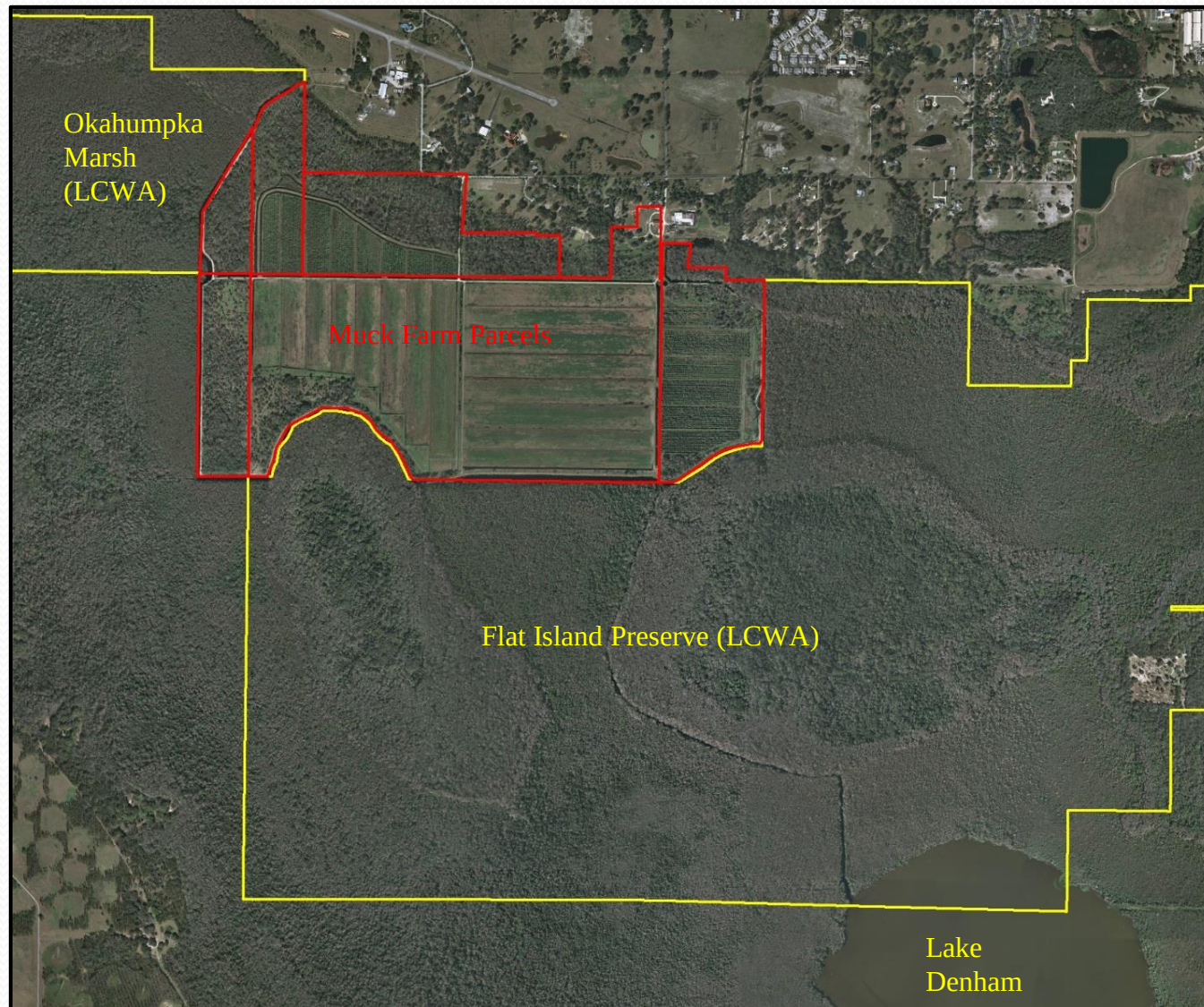


Lake Denham Muck Farm

Sources of TP (lbs/yr)	TMDL loading	Controllable loading	Controllable % contribution	Reduction needed to meet TMDL
Atmospheric Deposition	77.2	0	0%	0
Seepage/groundwater includes septic	15.4	0	0%	0
Muck Farm	1101.6	1101.6	66.9%	672.4
Stormwater	1380.3			
Natural Areas	835.3	0	0%	0
Developed Areas	299.7	299.7	18.2%	182.9
Industrial	26.5	26.5	1.6%	16.2
Mining	0.8	0.8	0%	0.5
Internal Loading	727.5	0	0%	0
Agriculture	218.9	218.9	13.3%	133.6
Loading Information	Lbs per year			
Total P-loading (lbs/yr)	3302.8	1647.5	100%	1005.6
Total Maximum Daily Load (lbs/yr)	1569.7			
Total reduction needed in P-loading	1733.1			
TP Reduction needed in watershed without internal loading	1005.6			



Lake Denham Muck Farm



Lake County
WATER AUTHORITY

Lake Denham Muck Farm Purchase

- 20-year Life Cycle Cost for Removal of TP is below \$60 per lb. Very inexpensive compared to other nutrient removal programs.
- Upon Change of Ownership, the TMDL Reductions Necessary for Lake Denham would Immediately be Met.
- Project Would Also Assist in Helping Lake Harris Meet its TMDL.
- Owners are Interested in Selling
- Site could Potentially be used for Water Supply or as a Public Fishing / Wildlife Management Area.



Questions?