

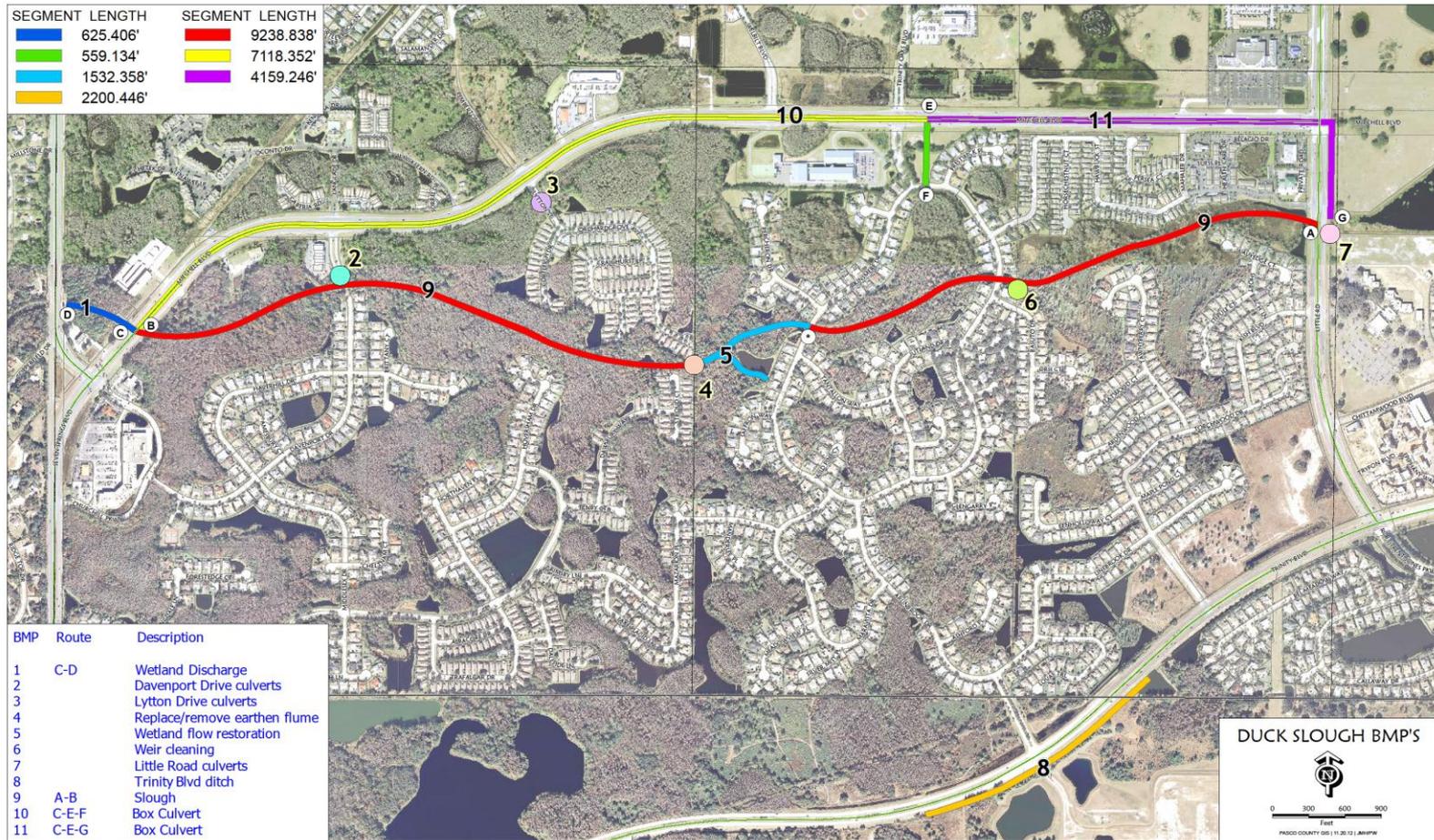
Thousand Oaks/Trinity Oaks Problem Solving Task Force

October 21, 2013

Agenda

- Welcome
- Recap of Previous Meeting and Activities
- BMP Nos. 1A and 5 A Permit Application Status
- BMP No. 6
- BMP No. 7
- PACE
- Maintenance Activities
- Pumping Activities
- Milestones and Next Steps
- Next Meeting

Conceptual BMPs



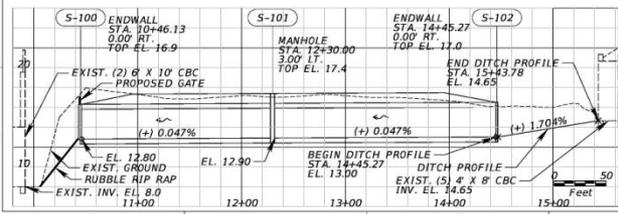
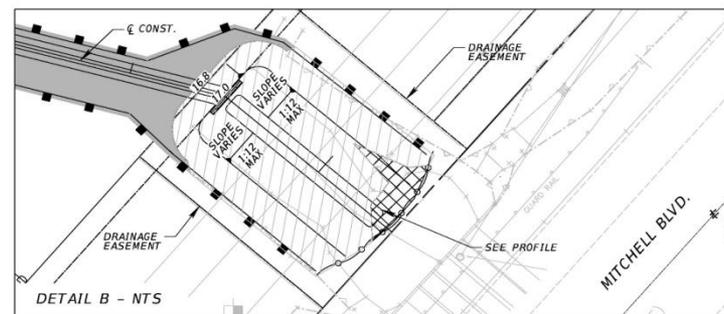
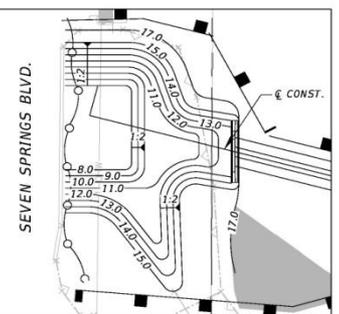
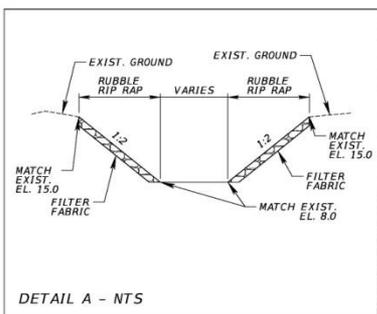
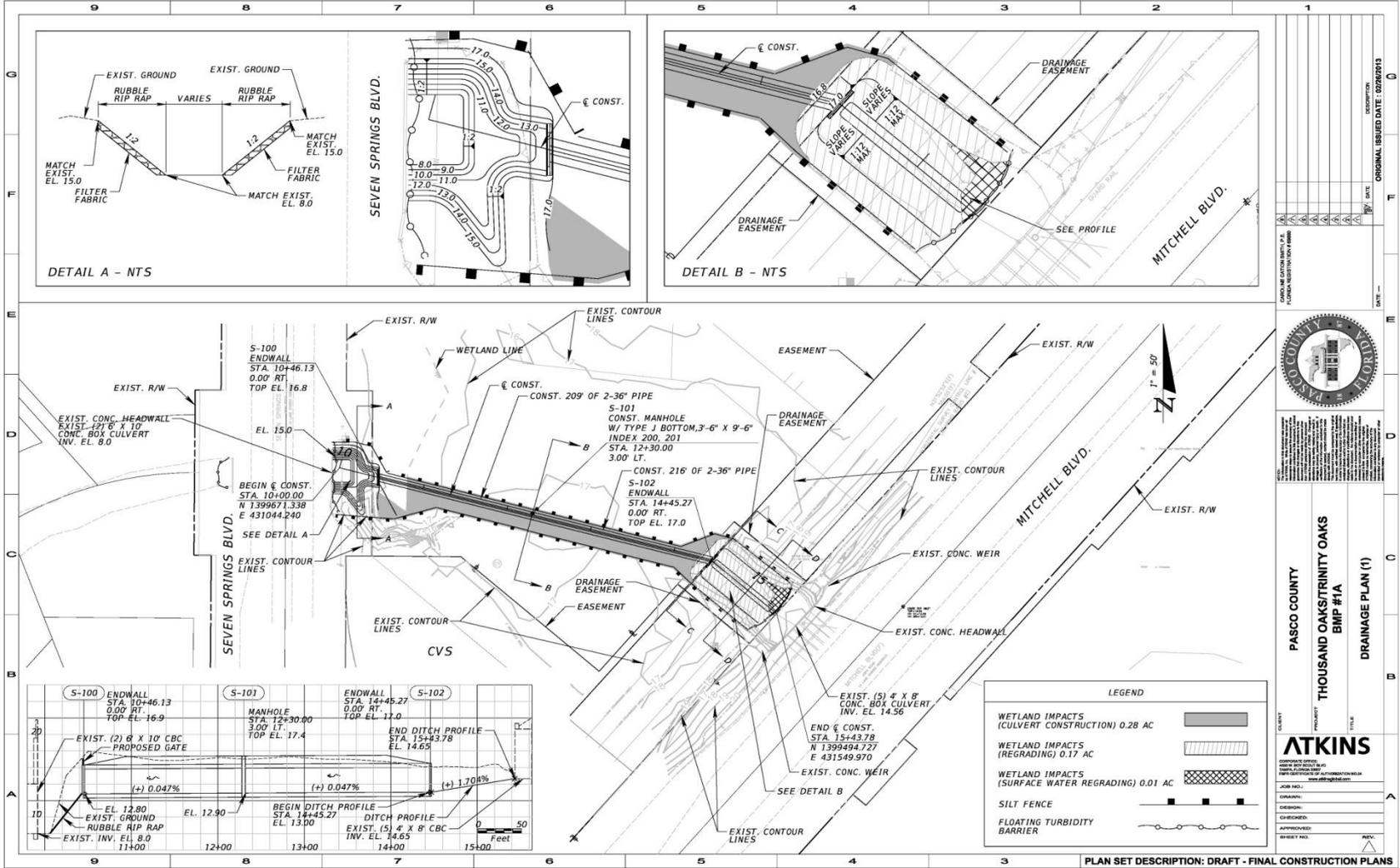
Permit Application Status for BMP 1A & 5A

- OBJECTIVE

- BMP 1A – Predischarge to create storage in the upstream system

- BMP 5A – Pond Recovery

BMP 1A PROJECT AREA



LEGEND

- WETLAND IMPACTS (CULVERT CONSTRUCTION) 0.28 AC
- WETLAND IMPACTS (REGRADING) 0.17 AC
- WETLAND IMPACTS (SURFACE WATER REGRADING) 0.01 AC
- SILT FENCE
- FLOATING TURBIDITY BARRIER

ORIGINAL ISSUED DATE: 02/26/2013
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 APPROVED BY: _____
 SCALE: _____

PASCO COUNTY
 THOUSAND OAKS/TRINITY OAKS
 BMP #1A
 DRAINAGE PLAN (1)

ATKINS
 10000 W. UNIVERSITY BLVD.
 SUITE 200
 FORT WORTH, TEXAS 76134
 WWW.ATKINS.COM

PROJECT NO.: _____
 JOB NO.: _____
 SHEET NO.: _____

PLAN SET DESCRIPTION: DRAFT - FINAL CONSTRUCTION PLANS

BMP 1A & 5A

- Southwest Florida Water Management District
- Army Corp of Engineers

BMP 6 EVALUATION

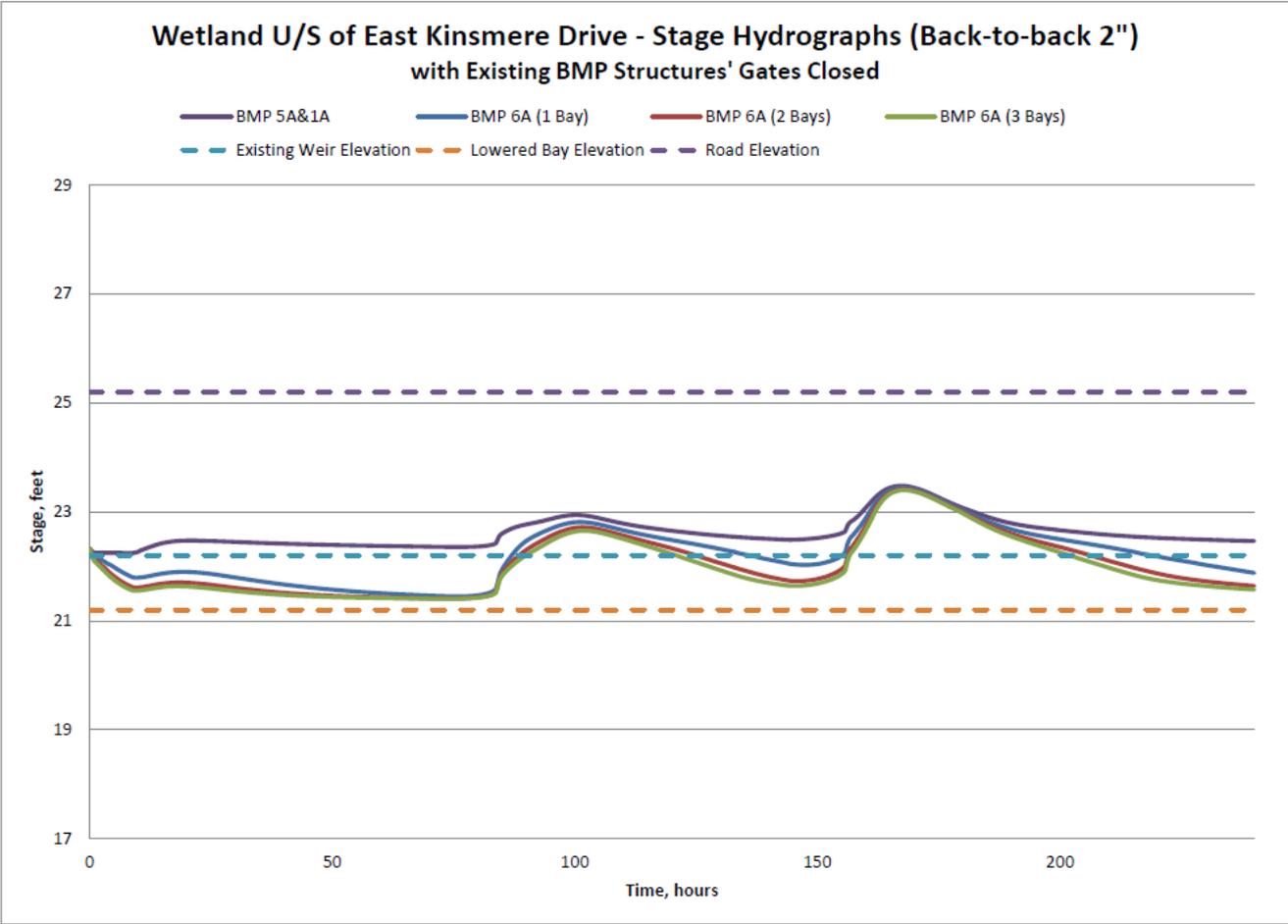
Lowering the Weir Upstream of East Kinsmere



The current Duck Slough watershed model was used to evaluate performance of various alternatives for lowering the existing weir. The goal is to lower normal water level in the upstream wetland by one foot, while not adversely affecting downstream properties.

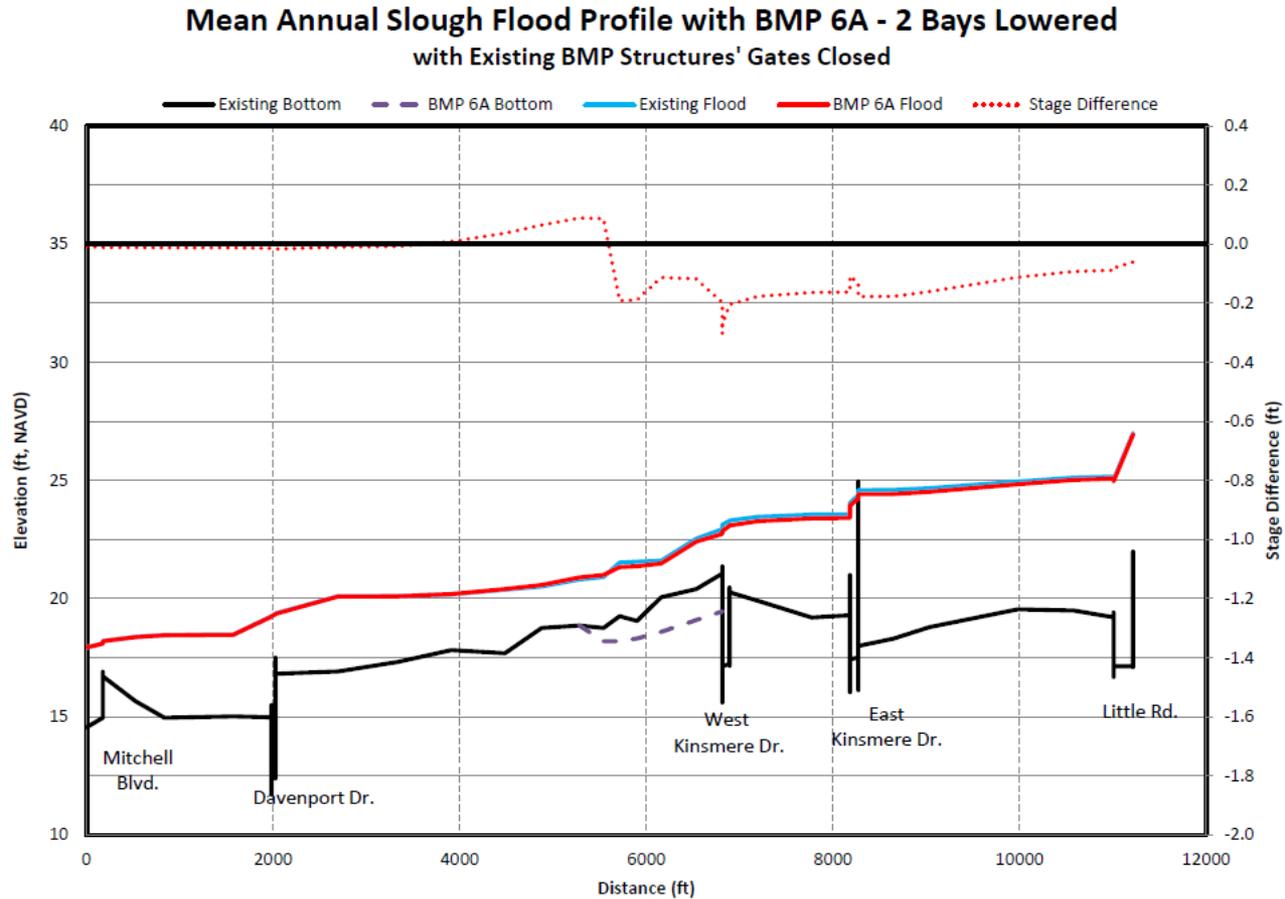
BMP 6 EVALUATION

Recommend Lowering 2 Bays to Achieve Goal



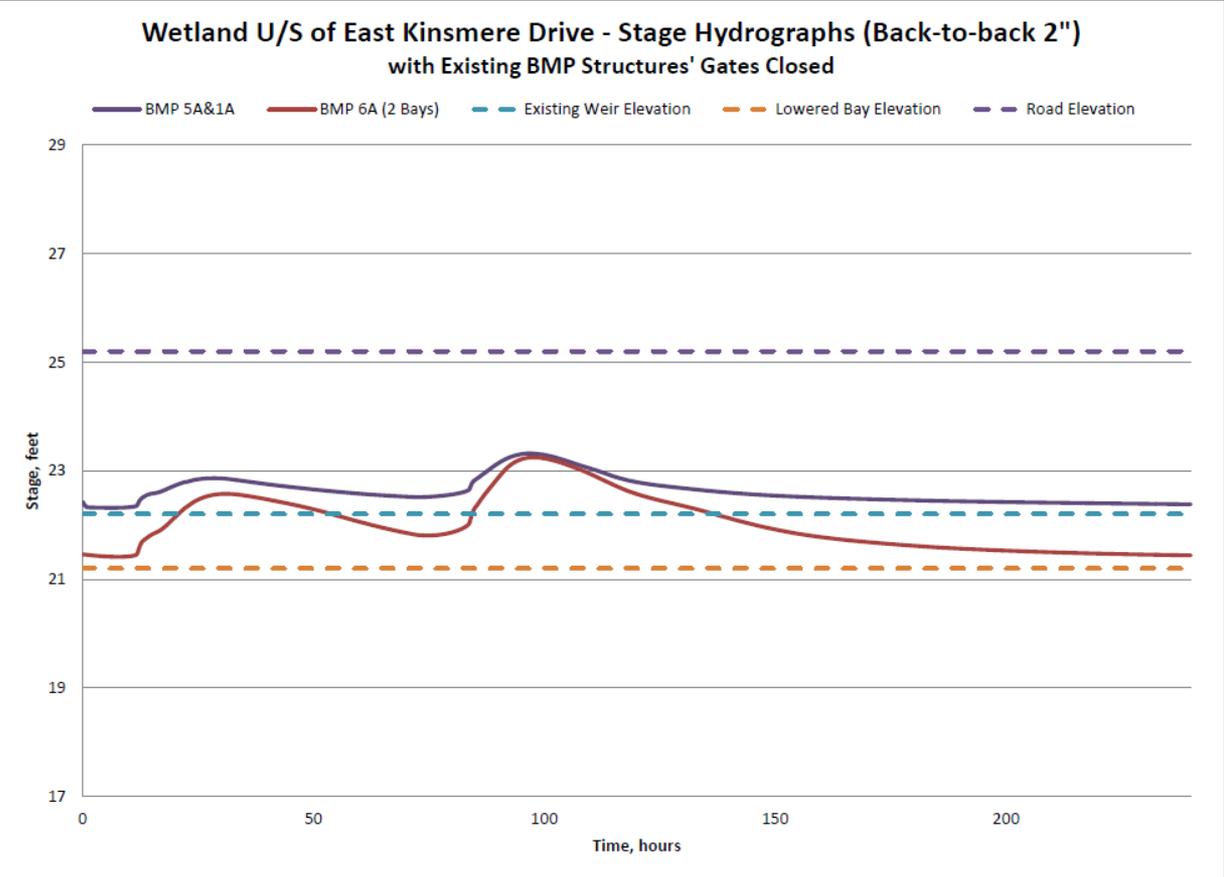
BMP 6 EVALUATION

Performance – Peak Water Surface Profile



BMP 6 EVALUATION

Performance – Stage Hydrograph and Recovery



BMP 7 EVALUATION

Raising the Weir Upstream of Little Road



The current Duck Slough watershed model was used to evaluate performance of various alternatives for raising the existing weir. The goal is to reduce flow at Little Road into Thousand Oaks, sufficient to eliminate flooding of homes, while not adversely affecting adjacent properties.

BMP 7 EVALUATION

Significant Flow Reduction is Needed at Little Road to Eliminate Downstream Residential Flooding



The watershed model was used to estimate the volume of stormwater that would need to be removed during a 100-Year event in order to substantially reduce or eliminate flooding risk of residential structures.

Table 1: Houses Removed from 1-Day, 100-Year Flood Risk by Conceptually Removing Water

Simulation	BMP 1,5&6	Water Removed (acre-ft)				
		1182	927	644	382	182
Peak Flow @ Little Road (cfs) (RA2901)	1760	906	1072	1247	1404	1555
Peak Flow @ Diversion (cfs) (W_OUT)	N/A	1084	905	716	501	303
Conceptual Weir Elevation (ft, NAVD88) (W_OUT)	N/A	27.25	27.50	27.75	28.00	28.25
Houses Flooded	17	1	2	5	8	11

BMP 7 EVALUATION

Raising Weir Will Impound Water Upstream

Simply raising the weir at Little Road to reduce the flow rate into Thousand Oaks results in adverse impacts upstream. In order to raise the weir, large volumes of water would need to be impounded and there is not sufficient land available on which to safely store that water.



Table 2: Houses Removed from 1-Day, 100-Year Flood Risk by Impounding Water Upstream of Little Road

Simulation	BMP 1,5&6	Conceptual Weir Elevation (ft, NAVD88)							
		26.5	27.0	27.5	28.0	28.5	29.0	29.5	30.0
Peak Flow at Little Road (cfs) (RA2901)	1760	1648	1589	1515	1432	1308	1154	994	836
Peak Stage U/S Little Rd (ft NAVD88) (NA2900)	28.73	28.95	29.06	29.22	29.41	29.65	29.90	30.11	30.26
Houses Flooded	17	16	13	9	8	7	4	1	1

BMP 7 EVALUATION

Evaluating Potential Storage Volume on Undeveloped Properties in the Area



Because water table is close to land surface, you cannot dig a deep pit to create available storage. A site like this 11-acre tract fronting Little Road accounts for only a fraction of the required storage volume, and there are few such sites available for consideration.

Table 3: Houses Removed from 1-Day, 100-Year Flood Risk by Using the Odyssey Property for Storage

Simulation	Existing	BMP 1,5 & 6	Utilizing Odyssey Storage	
			Existing	BMP 1,5 & 6
Peak Flow at Little Road (cfs) (RA2901)	1762	1759	1746	1742
Peak Stage U/S Little Rd (ft NAVD88) (NA2900)	28.74	28.73	28.72	28.72
Houses Flooded	17	17	17	17

Pithlachascotee /Anclote Conservation Effort Cooperative Funding Initiative Project Overview

10/21/13



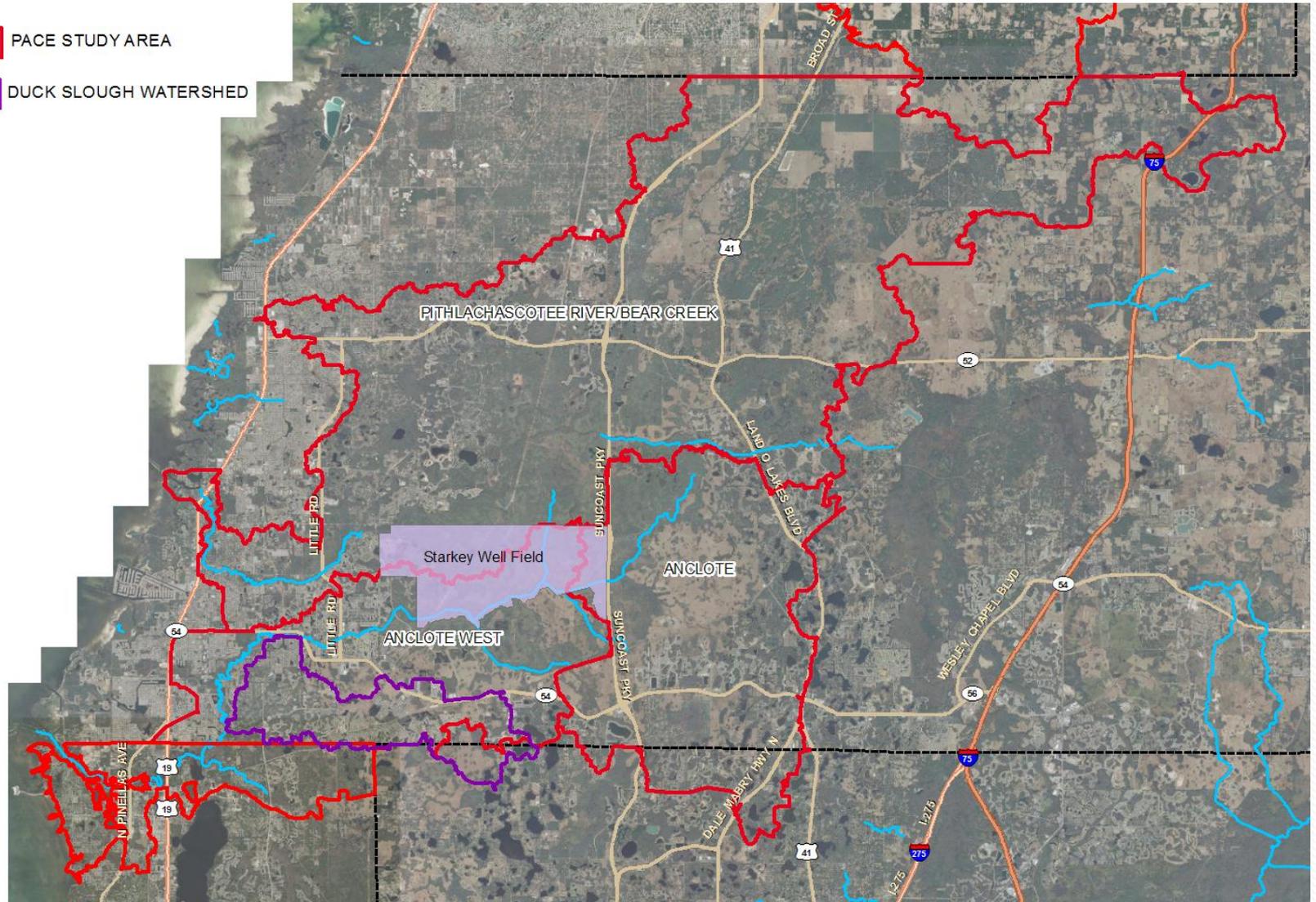
Description

- Project Number L738 (PACE)
- Multi year project
- Evaluation of regional solutions to Duck Slough flooding problems
- Flow diversion and impounding stormwater
- Total funding currently available is \$2.5M



Project Area Map

-  PACE STUDY AREA
-  DUCK SLOUGH WATERSHED



Schedule

- Data Collection
 - Has begun with collection of as-builts for area ERPs.
- Watershed model development.
 - Approximately 1,200 structures to be included in the model



Schedule (Continued)

- Floodplain Delineation
 - Verify model using TS Debby data
 - Peer Review



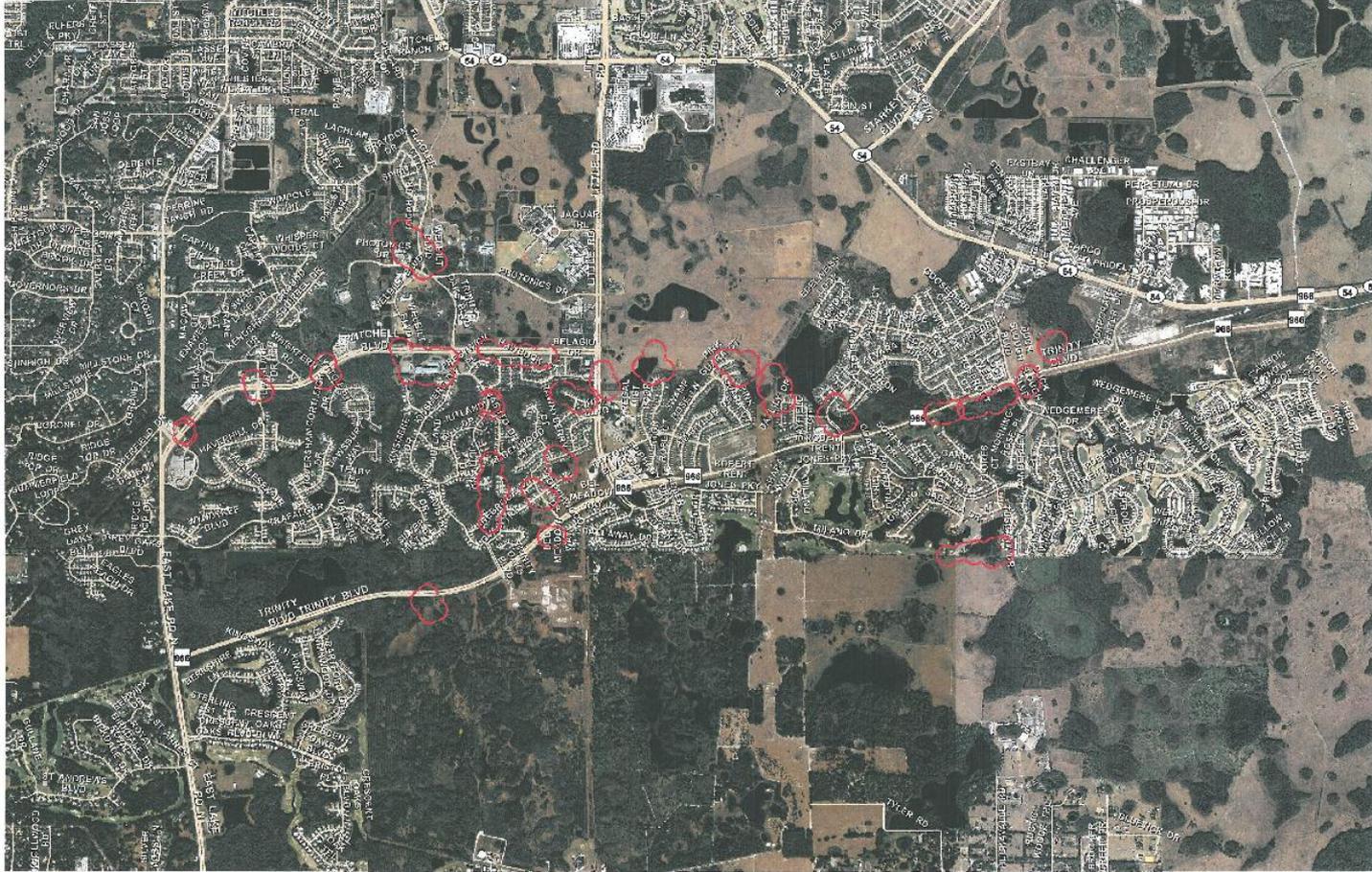
- Floodplain Adoption
 - Public Comment
 - Responses
 - SWFWMD Board Approval



- BMP Development
 - LOS
 - BMP formulation
 - Ranking



SWFWMD - Maintenance



Pumping Activities



Website

- www.pascocountyfl.net
- Government
- Departments
- Stormwater Management
- Watershed News
- Duck Slough Watershed



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Duck Slough Watershed

The Duck Slough Watershed is 14.1 square miles in size with 10.1 square miles that flows through the Trinity, Thousand Oaks, Trinity Oaks, Wyndgate, Wyndtree and Chelsea Place communities. The historic drainage flow is from East to West to the Anclote River and then to the Gulf of Mexico.

Due to flooding within the watershed a task force was formed in September 2012. The task force members consists of citizens and property owners that have been affected by the flooding. The latest status on the work of the task force is summarized in the [Thousand Oaks/Trinity Oaks Problem Solving Task Force](#) document.

The task force meets on a regular basis to discuss concerns, study and permit status, and maintenance activities. The meeting schedule, agendas and meeting summaries are available [on-line](#).







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Thousand Oaks/Trinity Oaks Problem Solving Task Force

On June 24, 2012 rains from Tropical Storm Debby and then subsequent rains inundated the Duck Slough Watershed area. Particularly hard hit were the communities of Thousand Oaks and Trinity Oaks.

On August 9th, a community meeting was held with County staff, County Commissioners, other elected officials, agency officials, and residents from both communities. As a follow up to the community meeting a neighborhood task force was formed which consists of the community leaders, County and Regulatory staff and consultants hired by the County to review the problem and design and permit the solutions. These meetings are held on a regular schedule.

Next Meeting

October 21, 2013 from 4:00 to 6:00 p.m. at the Emergency Operations Center located at 8744 Government Drive, New Port Richey, Florida

Prior meeting agendas and summaries:

September 9, 2013	Agenda	Meeting Summary
August 12, 2013	Agenda	Meeting Summary
May 6, 2013	Agenda	Meeting Summary
April 8, 2013	Agenda	Meeting Summary
February 25, 2013	Agenda	Meeting Summary
January 28, 2013	Agenda	Meeting Summary
December 17, 2012	Agenda	Meeting Summary
November 27, 2012	Agenda	Meeting Summary
November 5, 2012	Agenda	Meeting Summary
October 8, 2012	Agenda	Meeting Summary
September 10, 2012		Meeting Summary
August 27, 2012		Meeting Summary
August 13, 2012	Agenda	Meeting Summary

Milestones and Next Steps

- BMP Nos. 1 and 5
 - Construction Bid Documents
 - Easements
 - Construction Contract
 - Construction

Milestones and Next Steps

- BMP 6
 - Modify Existing Weir
 - 45 days to submit SWFWMD application
 - Need to coordinate with Master Association
 - Construction Bid Documents
 - Construction Contract
 - Construction
 - Replace the Existing Weir

Milestones and Next Steps

- BMP 7

Next Meeting

- December 2, 2013