650-050-37 ENVIRONMENTAL MANAGEMENT 10/17

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION WATER QUALITY IMPACT EVALUATION CHECKLIST

PART 1:	PROJECT INFO	RMATIO	N				
Project Nar	ne:	SR 710 f	rom US 441	to L-63N (Canal		
County:		Okeecho	bee				
FM Numbe	r:	419344-3	3-43-01				
Federal Aid	Project No:	TBD					
Brief Project PART 2:	et Description: DETERMINATION	The proposed improvements consist of a new four-lane divided roadway on new alignment from US 441 to SR 710 just west of the L-63N Canal Bridge. The project includes a new culvert crossing at Taylor Creek and a reconstructed bridge crossing over the L-63N Canal. The project is approximately 3.864 miles in length.					
Does project	discharge to sur	face or gr	ound water?		☐ No		
Does project	alter the drainag	je system?	?	⊠ Yes [□No		
	t located within a chobee County	permitted	MS4?	⊠ Yes [☐ No		
	rs to the question nen check Box A		re no, compl	ete the ap	plicable se	ections of Part 3	
PART 3:	PROJECT BAS	IN AND R	ECEIVING V	VATER CI	HARACTE	RISTICS	
_	ter ater(s) names: <u>Ta</u> gement District: <u>S</u>			al, and Mo	osquito Cre	ek	
	al Look Around rand minutes/notes to the		ate: <u>N/A</u>				
Water Contro	ol District Name ((list all that	t apply): <u>N/A</u>				
Name	Aquifer (SSA)? Biscayne Aquife lete Part 5, D and	er SSA Str					
Other	Aquifer? Name	☐ Yes	⊠ No				
Springs vent		☐ Yes	⊠ No				

Well head protection area?	<u>Zones</u>
Notify District Drainage Engineer if karst conditions are expected or if treatment may be needed due to a project being located within a Impaired in accordance with Chapter 62-303, F.A.C.	•
Date of notification: <u>N/A</u>	
PART 4: WATER QUALITY CRITERIA	
List all WBIDs and all parameters for which a WBID has been verified i TMDL in Table 1. This information should be updated during each re-e required.	
Note: If BMAP or RAP has been identified in <u>Table 1</u> , <u>Table 2</u> must als Attach notes or minutes from all coordination meetings identified in <u>Table 2</u> .	o be completed.
EST recommendations confirmed with agencies?	☐ Yes ⊠ No
BMAP Stakeholders contacted: See various coordination in Attachment 1	⊠ Yes □ No
TMDL program contacted:	☐ Yes ⊠ No
RAP Stakeholders contacted: No RAP	☐ Yes ⊠ No
Regional water quality projects identified in the ELA	⊠ Yes □ No
If yes, describe: See various coordination in Attachment 1	
Potential direct effects associated with project construction and/or operation identified? If yes, describe: Temporary water quality impacts may occur during project construction potential impacts will be avoided and minimized to the greatest extension through the implementation of a Stormwater Runoff Control Concept as adherence to resource-agency issued permits and permit condition FDOT's Standard Specifications for Road and Bridge Construction.	t practicable (SRCC), as well

Discuss any other relevant information related to water quality including Regulatory Agency Water Quality Requirements.

See various coordination in Attachment 1

PART 5: WQIE DOCUMENTATION	
	nts apply to this project (provide Evaluator's stormwater issues will be mitigated through nts of authorized regulatory agencies. h review required. Yes No
The environmental review, consultation, and environmental laws for this project are being, to 23 U.S.C. § 327 and a Memorandum of Ur	or have been, carried out by FDOT pursuant
executed by FHWA and FDOT.	
Evaluator Name (print): Gordon Mullen, HN	ТВ
Title:Sr. Planner	
Signature: Gordon S. Mullen	Date:5/3/2024

Table 1: Water Quality Criteria

Receiving Waterbody Name (list all that apply)	FDEP Group Number / Name	WBID(s) Numbers	Classification (I,II,III,IIIL,IV,V)	Special Designations*	NNC limits**	Verified Impaired (Y/N)	TMDL (Y/N)	Pollutants of concern	BMAP, RA Plan or SSAC
Taylor Creek (Lower Segment)	1	3205B	III F	N/A	N/A	Yes	Yes	DO, TP, Iron, Chloropyhll- A, TN,	BMAP (Lake Okeech obee)
L-63 Canal	1	3203C	III F	N/A	N/A	Yes	No	DO, TP, TN, Chlorophyll- A	BMAP (Lake Okeech obee)
Mosquito Creek	1	3203B	III F	N/A	N/A	Yes	Yes	DO, Fecal Colliform	BMAP (Lake Okeech obee)

^{*} ONRW, OFW, Aquatic Preserve, Wild and Scenic River, Special Water, SWIM Area, Local Comp Plan, MS4 Area, Other ** Lakes, Spring vents, Streams, Estuaries

Note: If BMAP or RAP has been identified in <u>Table 1</u>, <u>Table 2</u> must also be completed.

Table 2: REGULATORY Agencies/Stakeholders Contacted

Receiving Water Name (list all that apply)	Contact and Title	Date Contacted	Follow-up Required (Y/N)	Comments
Lake Okeechobee	Various coordination, see Attachment 1		No	

ATTACHMENT 1

419344-3-32-01 SR 710 fr. US 441 to L-63N

Water Quality Agency Coordination



MEETING MINUTES

SR 710 Possible Regional Pond Brainstorming Meeting SR 710 from US 441 to the L63-N Canal FPID No. 419344-3-52-01

September 13, 2013, 11:00 am; GoToMeeting

Attendees:

Lesley Bertolotti -SFWMD, Principal Scientist

Kevin Carter – SFWMD, Lead Scientist

Kelly Cranford - SFWMD, Permitting Section Leader

Orlando Diaz - SFWMD, Sr. Environmental Scientist

Eric Gonzalez – SFWMD, Project Manager Principal

Susan Martin – SFWMD, Senior Specialist Attorney

John Morgan - SFWMD, Lead Policy Analyst

Gary Ritter - SFWMD, Intergovernmental & Outreach Representative

Steve Sentes – SFWMD, Regulatory Professional Lead

Tony Waterhouse – SFWMD, Assistant Executive Director, Regulation

Misty Alderman - FDEP, Nonpoint Source Management

Elizabeth Alvi – FDEP, Env Consultant

Ken Kuhl - FDEP, Env Consultant

Trina Vielhauer - FDEP, Env. Assessment and Restoration

Bonnie Wolff Pelaez – FDACS, Env Specialist

Brent Setchell - FDOT, Permitting

Carl Spirio - FDOT, Drainage

Amy Setchell – FDOT – Project Manager

Brian Kirwan - The Wantman Group, PM - Design

Alfredo Rodriguez - The Wantman Group, Roadway

Greg Griffith - The Wantman Group, Permitting

Greg Seidel – The Balmoral Group, Drainage

Jennifer Nunn – The Balmoral Group, Drainage

Tim Desmarais – The Balmoral Group, Drainage

Purpose: The purpose of the meeting was to present the SR 710 project and possible regional pond opportunity to the SFWMD and FDEP, brainstorm on ideas, discuss feasibility and develop a go forward strategy. Below are highlights of the meeting -

- Greg Seidel began the meeting with introductions. Participants announced who they represent and what role they would presumably play in this concept.
 - a) FDOT regional pond approach has cost savings benefits and is in alignment with BMAP efforts
 - b) SFWMD permitting and also involved in BMAP process
 - c) FDEP BMAP coordinator
 - d) FDACS land owner of the potential site enrolled in the BMP program

Mr. Seidel added that he is the drainage engineer of record for the SR 710 new alignment project from US 441 to East of the L-63N Canal. As such, he is responsible for developing the stormwater management plan for the project and has been asked to evaluate regional opportunities by the FDOT.

Brent Setchell stated the FDOT position of looking for better ways to spend stormwater management dollars that would provide more treatment than just the roadway and help reduce costs to the FDOT while providing a better "product" to the public.

- Timeframe Pond Siting Report November 2013
 Right-of-Way Acquisition July 2015 (tentative)
- 3. Mr. Seidel began the brainstorming session with an overview of the proposed road alignment and overview of the local/regional hydrology. (Please see attached exhibits from the meeting agenda)
 - a) Water levels governed by operation of S-133 and S-191. Taylor Creek is pumped into Lake Okeechobee. This pump station was not designed to pump both ways.
 - b) Most of the runoff in Taylor Creek is from urbanized areas. Flows from the large agricultural areas to the north bypass Taylor Creek and flow around the city via the L-63 Canal. Much of the ag-based runoff is treated via an existing SFWMD Stormwater Treatment area to the north.
 - c) Discussed ongoing stormwater improvements and needs in the area:
 - i. Oak Park reconstructed swales
 - ii. SW 32nd Ave ditch
 - iii. TMDL-related improvements
 - iv. E-W conveyance project
 - v. Miscellaneous retrofits for direct connections to Taylor Creek
 - d) One option is to reverse the typical flow water in Taylor Creek, rout it through the proposed regional facility for treatment, and discharging back to Taylor Creek (or possibly L-63N). Routing water northward into L-63N may create a problem with septic tanks in the south, which have reported to have issues whenever the water reaches 13.8'.
 - e) Another suggestion was to route some of the water flowing in L-63N into the proposed regional facility for treatment and release it back to L-63N.
 - f) The landowners have been contacted about the roadway project.
- 4. It was suggested to contact USACE about this concept, as they may have interests from a permitting perspective and possible cost-sharing. It was agreed to this at a later date following an additional coordination meeting.

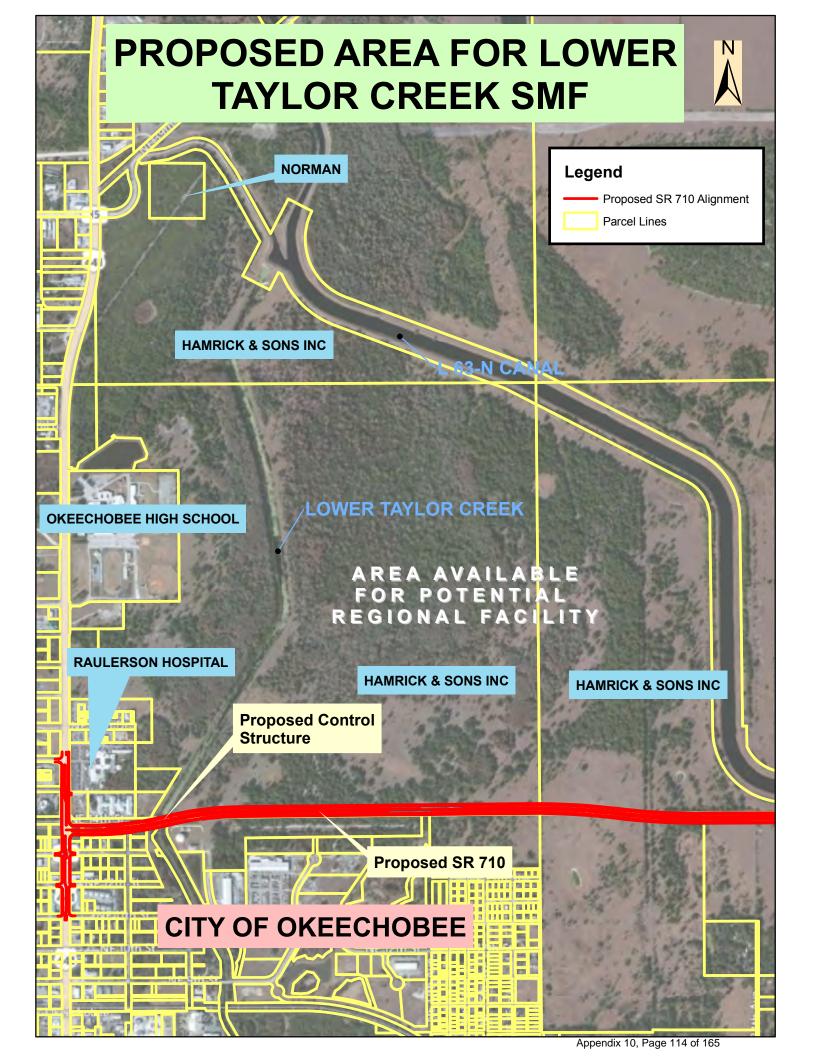
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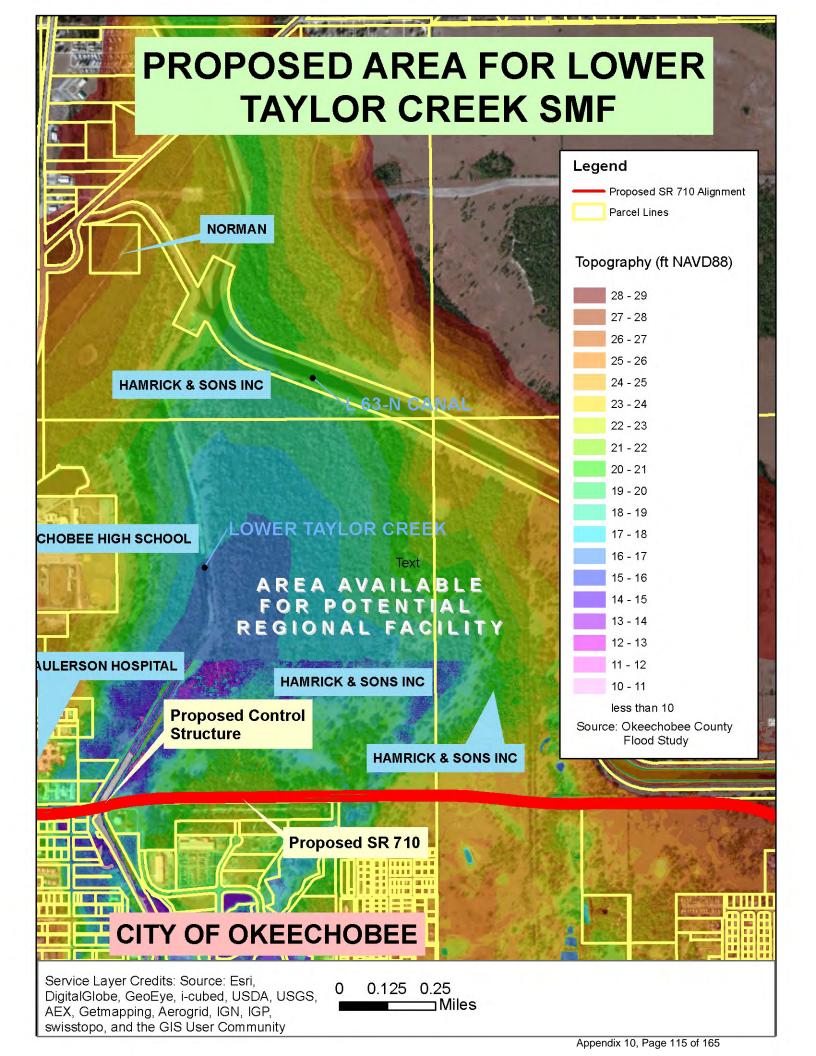
- 5. Water Quality data on Taylor Creek, L-63N, and Lake Okeechobee would be helpful in determining how to maximize the potential benefit from this concept.
- 6. It was noted that Taylor Creek used to have a sand bottom and is now covered with organic silt and muck. The southern portion of the basin contains homes on septic tank.
- 7. The meeting ended with an agreement to revisit and discuss more in detail when the draft Pond Siting Report is completed which will be in November. At this time, the FDOT will know more about pond sizes, locations and costs. The FDOT will contact the participants to schedule the meeting at a later date.

c. Attendees (Via Email)

Attachment - Agenda Exhibits

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Memo

To: Gregory Seidel, P.E.

From: Lori Stanfill, P.E.

CC:

Date: September 11, 2013

Re: SR 710 - Pump Information for Taylor Creek (Structures S-192 & S-133)

According to the System Operation Manual for Lake Okeechobee, Structure S-192 is located at the junction of L-63N Canal and Taylor Creek (North of the City of Okeechobee). This structure is a single 48" culvert with a gate and a pump. When the gate is open, it allows passage of water from L-63N to Taylor Creek (gravity flow), however, the gate is typically closed. The structure also permits back pumping from Taylor Creek to L-63N (See References).

The purpose of S-192 is to prevent stagnation in the lower reaches of Taylor Creek. The S-192 gate is normally closed, except for the following reasons: 1) Maintenance purposes, where it is needed to divert flows from L-63N Canal; 2) When the water quality in Taylor Creek is degraded (i.e. by discharge of the sewage treatment plant) and Lake Okeechobee is sufficiently low to allow gravity flow to the south into the lake (below elevation 14.0 ft, NGVD).

Similarly, the S-192 pump is only activated when the water quality in lower Taylor Creek is degraded (i.e. from discharge from the sewage treatment plant), and Lake Okeechobee is too high to allow flow into the lake (above elevation 14.0 ft, NGVD). When this occurs, structure S-193 (located at south end of Taylor Creek, at entry into Lake Okeechobee) is also open to discharge the same flow into Taylor Creek from Lake Okeechobee as is being pumped out to the north (into L-63N Canal).

S-192 is not designed to pass flood flows. Flood flows are routed to Lake Okeechobee via L-63N Canal, L-59 Canal, and structure S-191 (See Reference).

Stage and discharge Information for S-192 was obtained from the SFWMD website, and is shown below:

Location	Stage (ft NGVD)	Discharge	Date
S-192		Unavailable	11-15-2012
S-192 (US at L-63N)	19.42		3-12-2013
S-192 (DS at Taylor	13.67		3-12-2013
Creek)			

There is daily information for the stages and structures on Lake Okeechobee which can be accessed from the Army Corps of Engineers website (See References & Attachments). Structure S-133 is located at the southernmost end of Taylor Creek where it drains into Lake Okeechobee (at northeast bank of lake).

Structure S-133 includes 5 pumping units with a combined capacity of 625 cfs (or greater). It is designed to remove ¾ inch per day of runoff from the 16,190 acre drainage area. There are five – 48 inch steel pipes which convey pumped discharge into Lake Okeechobee. There are slidegates on the intake end (Taylor Creek side) and flapgates on the discharge end (Lake Okeechobee side).

Structure S-193 (mentioned above) is located 1200' to the east of S-133. It is a lock which can be opened to pass flows to the north or south depending on the stage in Lake Okeechobee (See Reference).

Information for the abovementioned structures can be obtained on the SFWMD website (See References). Stage and discharge Information for S-133 and S-193 was obtained from the SFWMD website, and is shown below:

Location	Stage (ft NGVD)	Discharge (cfs)	Date
S-133		282*	9-11-2013
S-133 (US at Taylor Creek)	13.67		9-11-2013
S-133 (DS at Lk. Okeechobee)	15.23		9-11-2013

Note: 2 pumps @ 1178.79 rpm discharging on 9-11-2013

According to the Army Corps of Engineers website, the pumps from Lake Okeechobee to the Caloosahatchee River were turned on in Feb. 2013, but turned off in late Aug. 2013 as the water level was sufficiently reduced and within the range the Corps likes to maintain. On September 10, 2013, the stage in Lake Okeechobee is 15.46 feet NGVD. The Corps acceptable range (Operational Management Band) for which no pumping is necessary is between 12.59 feet NGVD to 16.48 feet NGVD. The stage on the upstream side (Taylor Creek) of S-133 was 13.46 feet NGVD on Sept. 10, 2013. See attached chart for Lake Okeechobee stage information from January 2012 to September 2013 and Lake Okeechobee Vicinity Report.

References:

- Central and Southern Florida Project for Flood Control and Other Purposes
 <u>System Operating Manual, Lake Okeechobee & EAA Vol. 3, Version 1 Draft</u>
 <u>4</u>. Dept. of the Army Corps of Engineers, Jacksonville District, December 2005.
- 2. http://w3.saj.usace.army.mil/h2o/plots.htm. Army Corps of Engineers Website.
- 3. http://www.sfwmd.gov/portal/pls/portal/realtime.pkg rr.proc rr?p op=OKEECH

 OBEE&p wcs name=TAYLOR CK 1. SFWMD Website.

FIELD STATION AREAS OF RESPONSIBILITY

C0C03

CORK2 CORK3

CR31N CR31S CR951_ CR951_.

CYPRESS1

C18 C37WEIR

G208 G211 G212 G248A-D G249A-H G250S G251 G252H-J G254A-A1 G254B-B1 G254C-C1 G254D-D1

G304A-G305A-\ G306A-G307

G310 G311 G327A-C G328 G329A-E G330A-E G331A-C

G333A-E G334

G335 G336A-F G336G

G337 G337A

G367A-F G368 G370 G370S G371 G372 G372S G372HL G373 G375A-F

LUCKY_LA MERRI TT1

S59WEIF S60

S61 S62 S63 S63A S65 S65A S65AX S65C S65CX S65CX

S65DX1

S65DX2

S65EW

S67X

S77

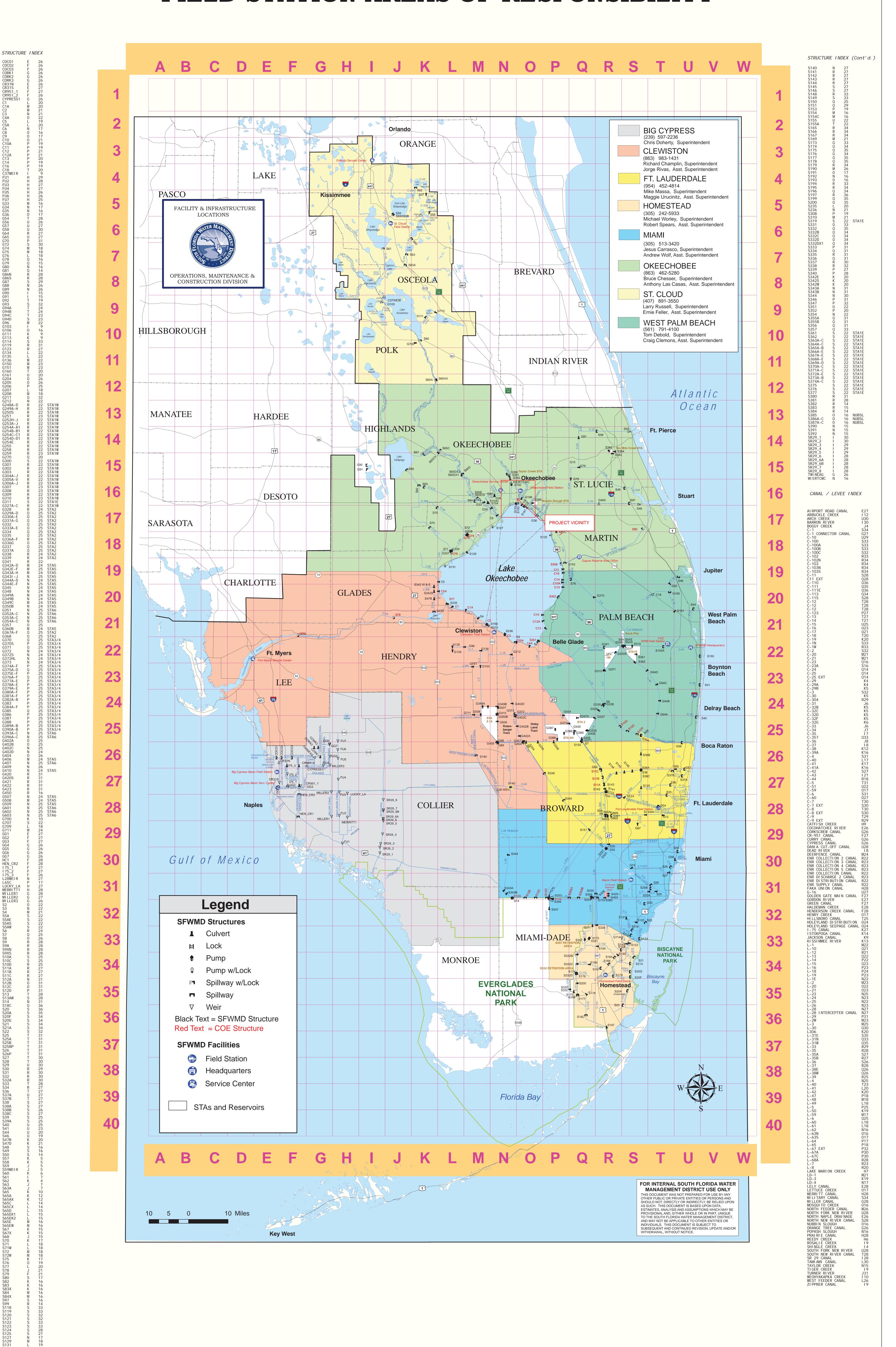
S78

S84 S84X

S123

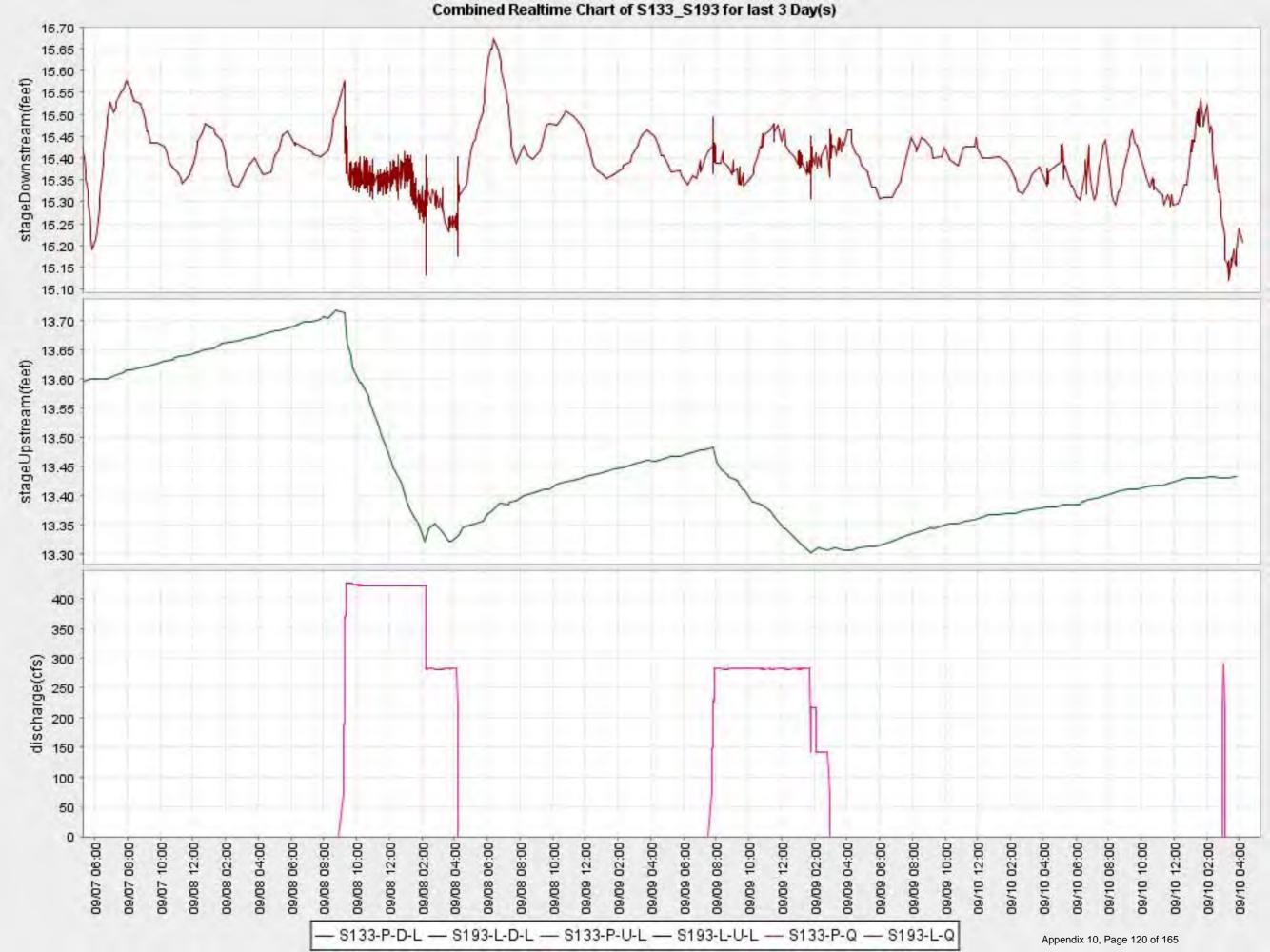
S133 S135 16

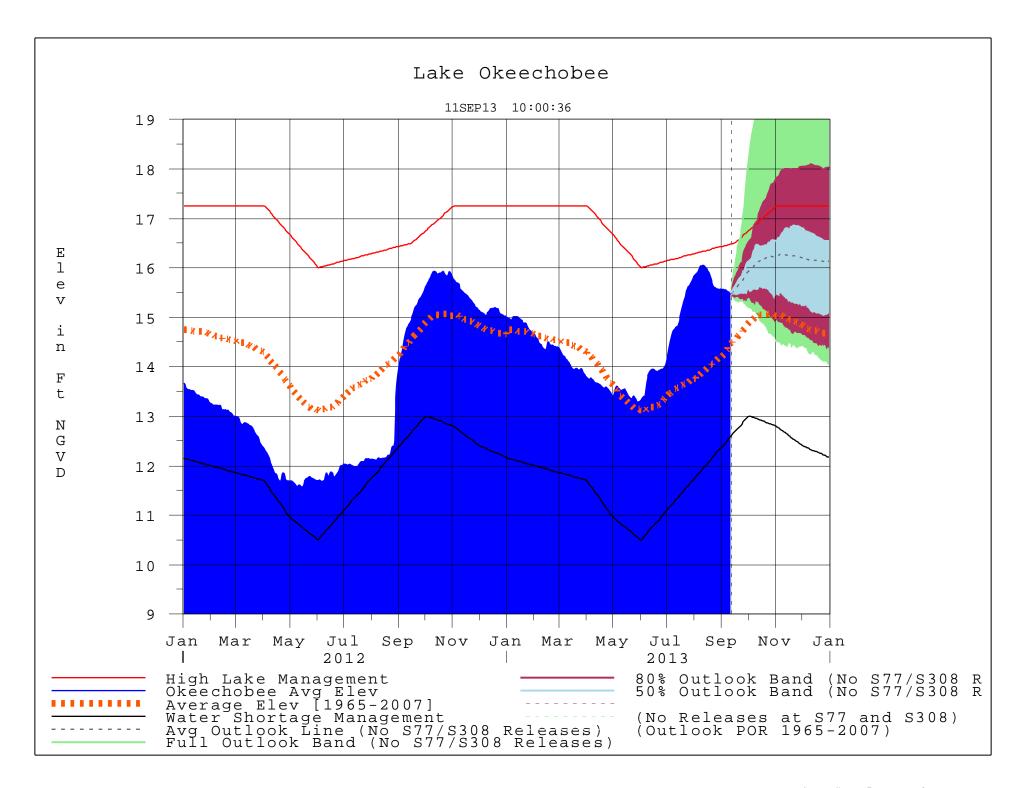
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Data Ending 2400 hours 10 SEP 2013
Okeechobee Lake Regulation
                               Elevation Last Year 2YRS Ago
                                (ft-NGVD) (ft-NGVD) (ft-NGVD)
  *Okeechobee Lake Elevation
                                   15.46
                                            14.81 10.86 (Official Elv)
  Bottom of High Lake Mngmt= 16.48 Top of Water Short Mngmt= 12.59
  Currently in Operational Management Band
  Simulated Average LORS2008 [1965-2000]
                                             13.41
 Difference from Average LORS2008
                                             2.05
  10SEP (1965-2007) Period of Record Average
                                                14.47
 Difference from POR Average
  Today Lake Okeechobee elevation is determined from the 4 Int & 4 Edge stations
  ++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 9.40'
  ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 7.60'
  Bridge Clearance = 49.24'
4 Interior and 4 Edge Okeechobee Lake Average (Avg-Daily values):
 L001
       L005 L006 LZ40
                              S4
                                      S352 S308 S133
  15.24 15.47 15.49 15.56 15.61 15.59 15.32 15.37
 *Combination Okeechobee Avg-Daily Lake Average = 15.46
                                                    (*See Note)
Okeechobee Inflows (cfs):
                                            162 Fisheating Cr 600
0 S135 Pumps 0
                3077
                          S191
  S65E
                         S133 Pumps
                                           0
  S154
                 152

      S127 Pumps
      0
      S2 Pumps

      S129 Pumps
      0
      S3 Pumps

      S131 Pumps
      0
      S4 Pumps

 S84
                  4
                                                                       0
 S71
                  156
                                                                       0
 S72
                  166
Total Inflows: 4317
Okeechobee Outflows (cfs):
 S135 Culverts 0 S354
                                              0
                                                     S77
                                                                     4001 (Used)
 S127 Culverts 0
S129 Culverts 0
S131 Culverts
                          S351
                                             0
                                                     S77Below
                                                                     4449 (NOT USED)
                          S352
                                            250
                                                     S308
                                                                     1300 (Used)
                          L8 Canal Pt 352
                                                     S308Below 1212 (NOT USED)
 C5
                    0
Total Outflows: 5903
****S77 Structure outflow is being used to compute Total Outflow.
****S308 Structure outflow is being used to compute Total Outflow.
Okeechobee Pan Evaporation (inches):
                 0.41
                        S308
                                           0.39
 Average Pan Evap x 0.75 Pan Coefficient = 0.30" = 0.02'
Lake Average Precipitation using NEXRAD: = 0.03" = 0.00'
```

Note: Headwater, tailwater, and stage values below are instantaneous values unless otherwise specified.

	Headwater	Tailwater				- Gat	te Pos	sition	ns		
	Elevation	Elevation	Disch	#1	#2	#3	#4	#5	#6	#7	#8
	(ft-msl)	(ft-msl)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
		(I) see r	note at	bott	om					
North East Sh	nore										
S133 Pumps	: 13.46	15.52	0	0	0	0	0	0	(cf:	3)	
S193:											
S191:		15.50	162	0.0		0.5					
S135 Pumps		15.35	0	0		0	0		(cf:	3)	
S135 Culve	rts:		0	0.0	0.0						
_											
North West Sh		4									
S65E:		15.71	3077	2.0	1.5		1.5				
S127 Pumps		15.40	0	0	0	0	0	0	(cf:	3)	
S127 Culve	rt:		0	0.0							
C120 Day	. 12 07	15 56	0	0	0	0			/ a.f.	~ \	
S129 Pumps: S129 Culver		15.56	0	0.1	U	U			(cf:	3)	
S129 Culver	۲.		U	0.1							
S131 Pumps	12 93	15.68	0	0	0				(cf:	=)	
S131 Culve		13.00	O	O	J				(С1)	<i>J</i> ,	
DISI CUIVEI											
Fisheating	Creek										
nr Palmda		32.33	600								
nr Lakepo		16.02									
C5:	16.71	15.46	0	0.0 0	.0 0	.0					
South Shore											
S4 Pumps:	10.88	15.58	0	0	0	0			(cf:	s)	
S169:	14.41	10.90	0	0.0	0.0	0.0					
s310:	15.55		2								
S3 Pumps:	10.59	15.60	0	0	0	0			(cf:	s)	
S354:	15.60	10.59	0	0.0	0.0						
S2 Pumps:	9.87	15.52	0	0	0	0	0		(cf:	s)	
S351:	15.52	9.87	0	0.0	0.0	0.0					
S352:	15.49	11.48	250	0.8	0.8						
C10A:	-NR-	-NR-		10.0	10.0	8.	.0 10	0.0	10.0		
L8 Canal Pi	Γ	15.35	352								
	S35	1 and S352	Tempora	ary Pum	ps/S3	54 Sr	pillwa	яy			
S351:	9.87	15.52	0	-NRN	RNR	NR-	NR	-NR-			
S352:	11.48	15.49		-NRN							
S354:	10.59	15.60	0								

```
Caloosahatchee River (S77, S78, S79)
 S47B:
       13.04
                    12.03
                                        0.0 0.5
 S47D:
             12.03
                      10.71
                                -NR-
                                       0.0
 S77:
   Spillway and Sector Flow:
              15.26
                    10.86
                                4000
                                       -NR- 3.7 3.7 3.7
   Flow Due to Lockages+:
                                   1
 S77 Below USGS Flow Gage
                                4449
 S78:
   Spillway and Sector Flow:
              10.32
                    3.16
                                5255
                                        4.0 4.0 4.5 4.0
   Flow Due to Lockages+:
                                   4
 S79:
   Spillway and Sector Flow:
                                7862
                                       3.0 3.0 3.0 4.0 4.0 3.0 3.0 3.0
               2.92
                    1.40
   Flow Due to Lockages+:
                                  2.
   Percent of flow from S77
                                  51%
   Chloride
                      (mqq)
                                48
St. Lucie Canal (S308, S80)
 S308:
   Spillway and Sector Flow:
              15.30
                                1298
                                       0.0 3.0 3.5 0.0
                      14.26
   Flow Due to Lockages+:
                                   2.
 S308 Below USGS Flow Gage
                                1212
 S153:
             18.95 14.14
                                       0.5 0.0
                                 84
 S80:
   Spillway and Sector Flow:
              14.08
                    0.85
                                1808
                                       0.0 1.0 1.0 0.0 1.0 1.0 0.0
   Flow Due to Lockages+:
                                  13
   Percent of flow from S308
                                  72%
 Steele Point Top Salinity
                            (mg/ml) ****
 Steele Point Bottom Salinity (mg/ml) ****
 Speedy Point Top Salinity
                            (mg/ml) 7089
 Speedy Point Bottom Salinity (mg/ml) 7723
```

+ Flow Due to lockages is computed utilizing average daily headwater and tailwater along with total number of lockages for the day to calculate a volume which is then converted to an average discharge in cfs.

				Wi	nd
Daily Precipitation Totals	1-Day	3-Day	7-Day	Directio	n Speed
	(inches)	(inches)	(inches)	(Degø)	(mph)
S133 Pump Station:	-NR-	0.13	1.38		
S193:	-NR-	0.00	0.00	-NR-	-NR-
Okeechobee Field Station:	-NR-	0.00	0.00		
S135 Pump Station:	-NR-	0.98	2.15		
S127 Pump Station:	-NR-	0.00	0.08		
S129 Pump Station:	-NR-	0.70	1.62		
S131 Pump Station:	-NR-	0.00	0.07		
S77:	0.00	0.00	0.33	114	2
S78:	0.00	0.00	1.57	25	1
S79:	0.15	0.16	1.40	36	2

```
      S4 Pump Station:
      -NR-
      0.00
      0.00

      Clewiston Field Station:
      -NR-
      0.17
      1.30

      S3 Pump Station:
      -NR-
      0.01
      0.87

      S2 Pump Station:
      -NR-
      0.02
      0.35

      S308:
      0.18
      0.18
      0.24

      S80:
      0.57
      0.77
      0.78

      Okeechobee Average
      0.09
      0.17
      0.65

                                                                                                                   270
                                                                                                                                        0
                                                                                                                    90
                                                                                                                                         0
              (Sites S78, S79 and S80 not included)
    _____
    Oke Nexrad Basin Avg 0.03 0.06 0.67
Okeechobee Lake Elevations 10 SEP 2013 15.46 Difference from 10SEP13 10SEP13 -1 Day = 09 SEP 2013 15.49 0.03 10SEP13 -2 Days = 08 SEP 2013 15.51 0.05 10SEP13 -3 Days = 07 SEP 2013 15.52 0.06 10SEP13 -4 Days = 06 SEP 2013 15.51 0.05 10SEP13 -5 Days = 05 SEP 2013 15.53 0.07 10SEP13 -6 Days = 04 SEP 2013 15.54 0.08 10SEP13 -7 Days = 03 SEP 2013 15.55 0.09 10SEP13 -30 Days = 11 AUG 2013 16.03 0.57 10SEP13 -1 Year = 10 SEP 2012 14.81 -0.65 10SEP13 -2 Year = 10 SEP 2011 10.86 -4.60
Long Term Mean 30day Avearge ET for Lake Alfred (Inches) = 4.21
                                            Lake Okeechobee Net Inflow (LONIN)
                                  Average Flow over the previous 14 days | Avg-Daily Flow
     S65E
                                        Average Flow over previous 14 days | Avg-Daily Flow
```

	-13 Days =		AUG 2013	3278 THU		3496
Lake Okeecho	bee Outle	ts Last 14	Days			
		Discharge	Below S-77 Discharge (ALL-DAY) (AC-FT)	S-78 Discharge (0700-2100) (AC-FT)		
10 SEP 2013 09 SEP 2013 08 SEP 2013 07 SEP 2013 06 SEP 2013 05 SEP 2013	4738 4626 4554 4692 4782 5029	7934 7771 7673 7895 8158 8434	8822 8697 8528 8778 9020 9256	6192 6240 5960 5889 6229 6521	10429 10466 9945 9977 10457 10981	15595 17759 17447 14918 16324 16496
04 SEP 2013 03 SEP 2013 02 SEP 2013 01 SEP 2013 31 AUG 2013 30 AUG 2013	4866 4713 4878 4020 3853 3820	8168 7952 8225 8386 8386 8326	9168 8694 8778 8845 8850 8759	6620 6532 6024 4812 4618 4686	11170 10854 10130 10098 10162 10251	17692 18873 19373 15902 16993 18255
29 AUG 2013 28 AUG 2013	3880	8366 8438	8851 8769	4610 4459	10025 9759	18838 19453
	S-310 Discharge (ALL DAY) (AC-FT)	S-351 Discharge (ALL DAY) (AC-FT)		S-354 Discharge (ALL DAY) (AC-FT)		Pt
10 SEP 2013 09 SEP 2013 08 SEP 2013 07 SEP 2013 06 SEP 2013 05 SEP 2013 04 SEP 2013	3 8 -0 10 2 12 18	0 0 0 0 0 0	496 333 621 682 1130 851 944	0 0 0 0 0 0	698 718 724 779 808 796 784	
03 SEP 2013 02 SEP 2013 01 SEP 2013 31 AUG 2013 30 AUG 2013 29 AUG 2013 28 AUG 2013	2 -5 2 60 29 -2 93	0 0 0 0 0	758 258 389 1251 1384 325 1222	0 0 0 0 0	804 743 782 797 808 718 753	
(S-308 Discharge	Below S-30 Discharge (ALL-DAY)	Discharg (ALL-DAY	7)		
DATE 10 SEP 2013 09 SEP 2013 08 SEP 2013 07 SEP 2013	(AC-FT) 2578 2419 2276 2781	(AC-FT) 2404 2236 2163 2741	(AC-FT) 3611 3596 3640 3600			
06 SEP 2013 05 SEP 2013 04 SEP 2013 03 SEP 2013 02 SEP 2013 01 SEP 2013	2831 2722 2507 2560 2432 2636	2814 2751 2431 2320 2114 2491	3573 3596 3624 3620 3640 3628			
31 AUG 2013 30 AUG 2013 29 AUG 2013	2920 2951 2820	2712 2672 2650	3604 3600 3580			

10SEP13 -12 Days = 29 AUG 2013 3197 FRI | 3501

28 AUG 2013 2344 2517 3620

- *** NOTE: 1) Discharge from (0700-2100) is computed using Spillway and Sector Gate Discharges from 0700 hrs to 2100 hrs.
 - 2) Discharge (ALL DAY) is computed using Spillway, Sector Gate and Lockages Discharges from 0015 hrs to 2400 hrs.

(I) - Flows preceded by "I" signify an instantaneous flow computed from the single value reported for the day

* On 11 May 1999, Lake Okeechobee Elevation was switched from Instantaneous 2400 value to an average-daily lake average. On 14 Mar 2001, due to the isolation of various gages within the standard 10 stations, the average of the interior 4 station gages was used

as the Lake Okeechobee Elevation. On 05 November 2010, Lake Okeechobee Elevation was switched to a 9 gage \min of interior and edge gages to obtain a more reliable representation

of the lake level. On 09 May 2011, Lake Okeechobee Elevation was switched to a 8 gage mix of interior and edge gages to obtain a more reliable representation of the lake level due to isolation of S135 from low lake levels.

- Today Lake Okechobee elevation is determined from the 4 Int & 4 Edge stations ++ For more information see the Jacksonville District Navigation website at http://www.saj.usace.army.mil/
- \$ For information regarding Lake Okeechobee Service Area water restrictions please refer to www.sfwmd.gov

Report Generated 11SEP2013 @ 09:46 ** Preliminary Data - Subject to Revision **

MEETING MINUTES

SR 710 Possible Regional Pond Brainstorming Meeting 2 SR 710 from US 441 to the L-63N Canal FPID No. 419344-3-52-01

April 4, 2014, 2:00 pm; GoToMeeting

Attendees:

Name		E-mail	Office Phone Number
FDOT		-	
Rick Renna	State Drainage Engineer	rick.renna@dot.state.fl.us	850-414-5351
Brent Setchell	District Environmental Permitting Engineer	brent.setchell@dot.state.fl.us	863-519-2557
Nicole Monies	District Environmental Permitting Specialist	nicole.monies@dot.state.fl.us	863-519-2359
Amy Setchell	Senior Project Manager	amy.setchell@dot.state.fl.us	863-519-2609
SFWMD			
Lesley Bertolotti	Principal Scientist (Northern Everglades Program Manager)	lbertolo@sfwmd.gov	(561) 682-6415
Kevin Carter	Lead Scientist (TMDL Coordinator)	kecarter@sfwmd.gov	(561) 682-6949
Orlando Diaz	Senior Environmental Scientist (Water Quality Treatment Technologies)	odiaz@sfwmd.gov	(561) 682-6534
Eric Gonzalez	Project Manager Principal (Northern Everglades)	ergonzal@sfwmd.gov	(561) 682-6391
Jesse Markle	Okeechobee Regulatory Service Center Administrator	jmarkle@sfwmd.gov	(863) 462-5260 x3005
Damon Meiers	Principal Engineer (Dispersed Water Management)	dmeiers@sfwmd.gov	(561) 682-6876
Gary Ritter	Intergovernmental Representative: Okeechobee, Glades, and Highlands Counties	gritter@sfwmd.gov	(863) 462-5260 x3017
Steve Sentes	Regulatory Professional Lead (West Coast and Local Projects)	ssentes@sfwmd.gov	(239) 338-2929 x7754
Tony Waterhouse	Assistant Director Regulation Division	twaterho@sfwmd.gov	(561) 682-6867

Name		Email	Phone
FDEP			
Kim Dinkins	Environmental Consultant	Kimberleigh.Dinkins@dep.state.fl.us	850-245-8825
Katie Hallas	Environmental Consultant	Katie. Hallas@dep.state.fl.us	850-245-8432
Beth Alvi	Program Administrator	Elizabeth. Alvi@dep. state. fl. us	850-245-8559
Trina	Deputy Director	Trina.Vielhauer@dep.state.fl.us	850-245-8338
Veilhauer			
Wantman			
Group			
Henri Belrose	Project Manager	henri.belrose@wantmangroup.com	813-574-3190
Eric Lanning	Project Engineer	Eric.Lanning@WantmanGroup.com	407-581-1221
Kasey Carrere	Environmental Scientist	Kasey.Carrere@WantmanGroup.com	407-581-1221
Balmoral			
Group			
Greg Seidel	Project Drainage Engineer	gseidel@balmoralgroup.us	407-629-2185
Jennifer	Asst. Project Drainage	JNunn@Balmoralgroup.us	407-629-2185
Nunn	Engineer		
Lori Stanfill	Asst. Project Drainage	LStanfill@balmoralgroup.us	407-629-2185
	Engineer		
ATM			
Janet Hearn	Senior Engineer	JHearn@AppliedTM.com	386-256-1018

Purpose: The purpose of the meeting is for the FDOT to present the results of draft Pond Siting Report and continue discussion. Below are highlights of the meeting -

- 1. Greg Seidel began the meeting with introduction of the lead contacts for each agency and a brief description of the roles.
- 2. Brent Setchell reiterated from the previous meeting the FDOT's interest in providing as much nutrient loading reduction as possible based on the FDOT budget for "typical postage stamp ponds" on a project. He added that the FDOT is very interested in partnering in regional treatment. Rick Renna affirmed the FDOT position.
- 3. Mr. Setchell summarized the current SR 710 status the pond costs for the project are estimated at the completed its review and this number is subject to change. The SR 710 project has ROW funding beginning in FY 2016 (July 2015). The goal for completing a partnering agreement for regional treatment would be April 2015 prior to finalizing our ROW maps. The project is not currently funded for construction, but the earliest construction could be funded would be FY 2019 (July 2018). Mr. Seidel provided a brief review of the SR 710 project utilizing the meeting exhibits (See

Attachments) and google maps. The project will be a four-lane curb and gutter typical section. The roadway begins at US 441 at the Airport Ditch and runs east along a new alignment across Taylor Creek then turns south tying into the existing SR 710 before crossing the L-63N Canal and ending at Mosquito Creek. The project length is approximately 3.85 miles.

- 4. Mr. Seidel gave a review of the Taylor Creek and L-63N Canal Bridge Hydraulics Reports (BHR) at SR 710 noting that the reports were completed in NAVD datum. The Taylor Creek BHR indicated that the Lower Taylor Creek basin is comprised of a 3.26 square mile Airport Ditch Basin and a 2.20 square mile Lower Taylor Creek Basin for a total drainage basin of 5.46 square miles. From the BHR for the L-63N Canal, the drainage basin upstream of the SR 710 crossing is 111.89 square miles.
- 5. Mr. Seidel provided the control elevations within Taylor Creek as 12.83 NAVD and within the L-63 as 17.83 NAVD.
- 6. Mr. Seidel gave a review of the pond siting report for the project and focused on the different elements reviewed such as drainage patterns, wetlands, cultural resources, utilities, geotechnical data and contamination screenings and estimated costs. For each of the areas, Mr. Seidel highlighted the evaluations for Pond Site 2C which would be within the location of the regional facility. He noted the study area did not include the entire regional pond area shown in the first meeting.
- 7. Mr. Renna made a comment that the 2C site would likely contain wetlands which could be used for wetland enhancement and nutrient uptake.
- 8. Mr. Seidel commented that the regional pond would reduce pollutants at a much higher concentration than the smaller SR 710 ponds. Specifically, the PSR estimated a reduction of 12 kg/yr for the post stamp ponds vs an estimated 2-3 MT/yr for a regional facility depending on the size.
- 9. Mr. Seidel went over the preliminary stormwater management concept for SR 710 utilizing the regional pond. This concept includes 3 drainage basins: the first basin will discharge to the regional pond; the second basin will discharge for pre-treatment to an existing (SR 70) pond without meeting pre/post requirements prior to discharging to L-63N Canal; and the third basin will discharge directly to the L-63N Canal. Mr. Renna commented that the existing permitting rules allow for compensatory treatment, and that approval of discharge

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- into the L-63N Canal would not be difficult. There was no objection from either SFWMD or FDEP participants.
- 10. Several local projects were noted including the Nubbin Slough STA, the Upper Taylor Creek STA, Treasure Island and Oak Park.
- 11. Gary Ritter commented that there is water demand from the L-63N Canal. If S-192 is utilized, project needs to be cognizant of water supply needs.
- 12. Concerns were expressed with the proximity of the Okeechobee airport to the proposed regional treatment facility and need to be at least 10,000 feet away to reduce the risk of bird strikes.
- 13. Mr. Renna indicated that he was meeting with Tom Frick from FDEP on Thursday to discuss this project among others.
- 14. Trina Veilhauer indicated the FDEP is quite interested and asked how we best move forward from this point. Brent Setchell offered that FDOT could fund The Balmoral Group through their District 1 Districtwide Drainage contract to perform a feasibility study for the regional treatment. It was agreed that the feasibility study would analyze two options a project option funded and constructed entirely by the FDOT to meet permit requirements and a Stormwater Treatment Area (STA) option that investigated partnering and a much larger facility. Mr. Seidel indicated that a scope of services would be prepared to investigate the two options, which would include meetings and coordination with stakeholders. A draft report will be submitted to FDOT, SFWMD and FDEP for review prior to finalizing the report.
- 15. Brent Setchell noted that FDOT staff is not "experts" in the design of STAs and would look for either SFWMD or FDEP to take the lead in the design and construction of a larger STA.
- 16. Brent Setchell noted that FDOT would like to utilize suitable excavated material from the regional pond for use as fill on its SR 710 project.
- 17. It was noted that the project is not within the Central Florida Water Initiative (CFWI) boundaries.

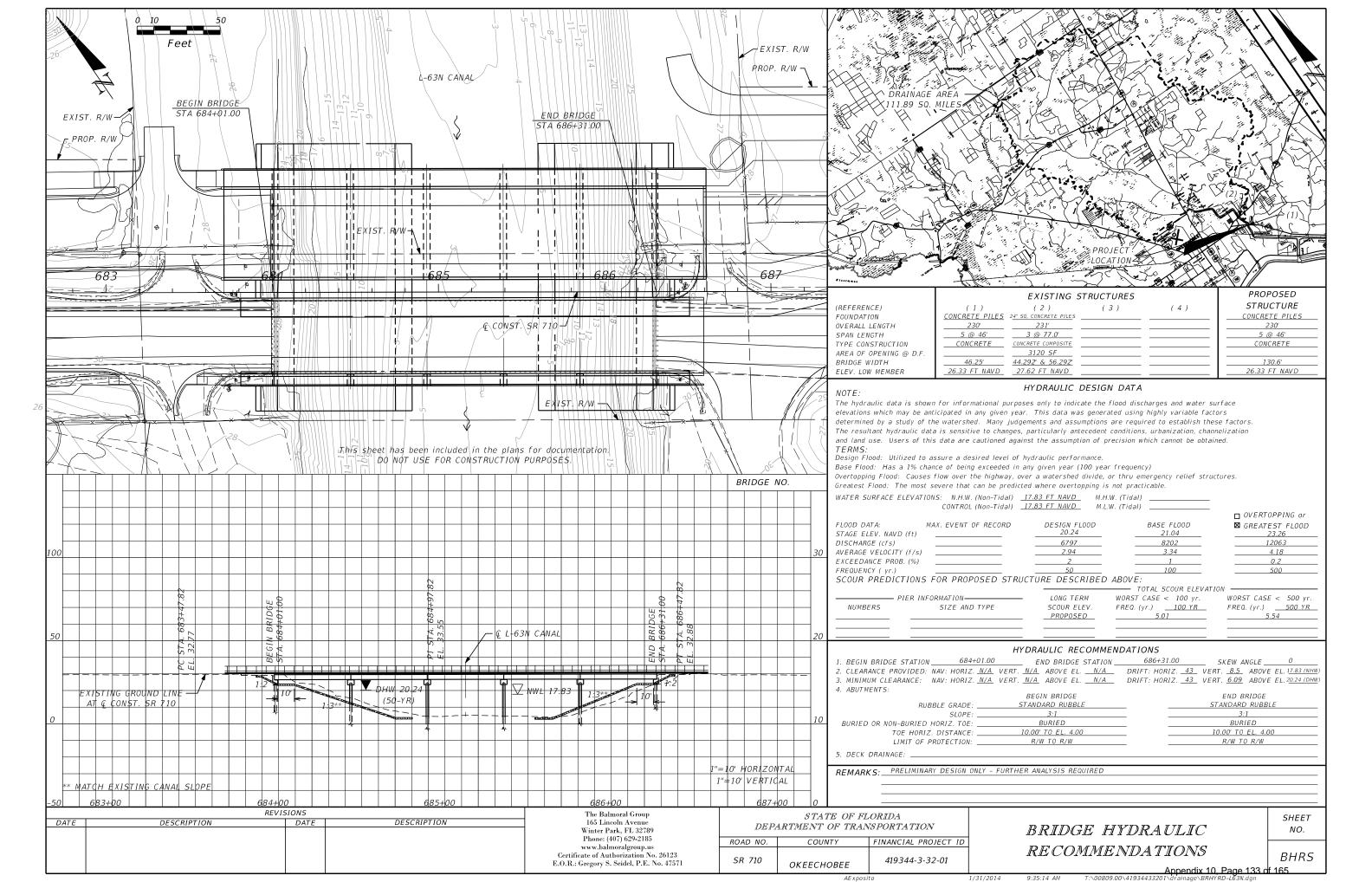
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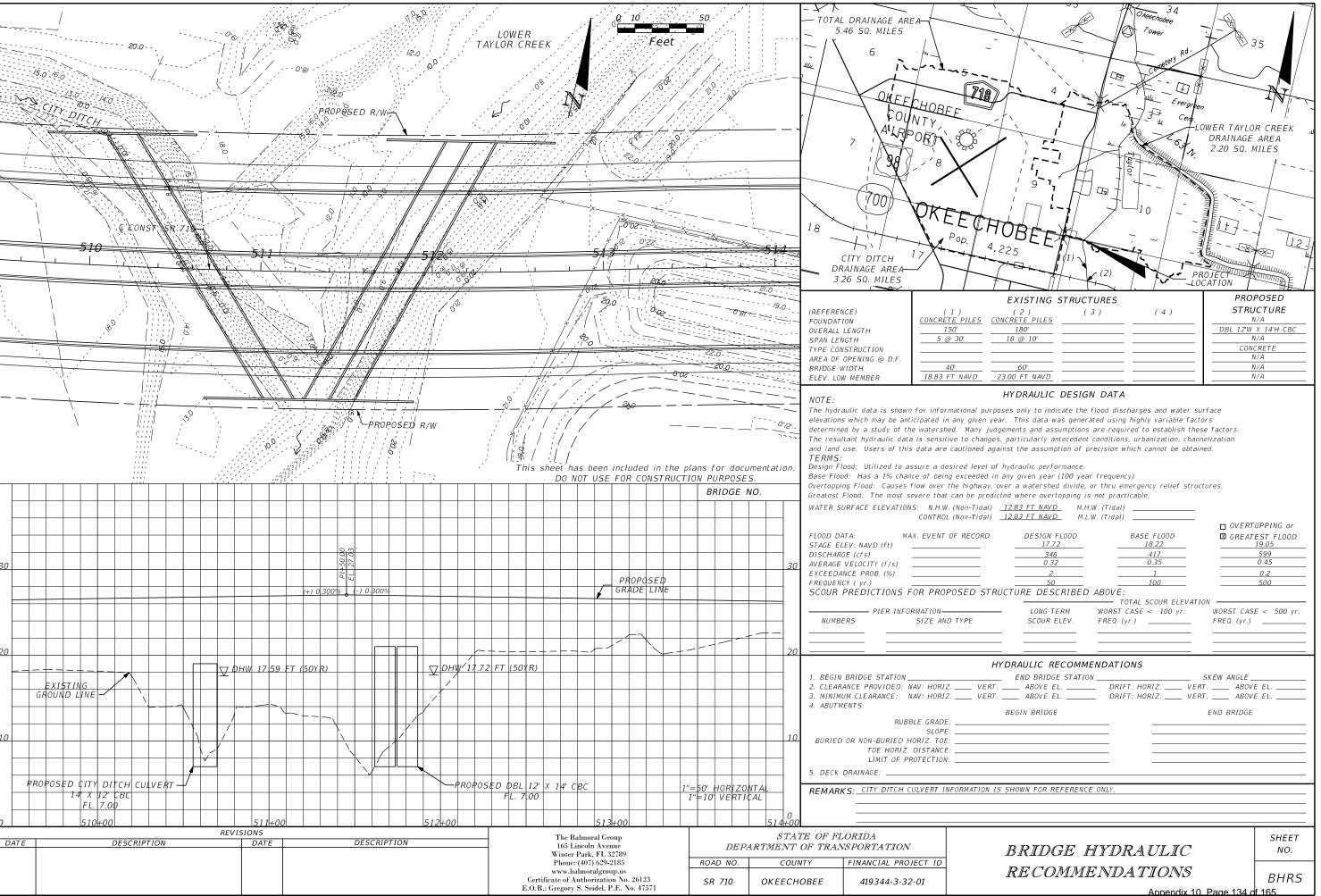
Action Items

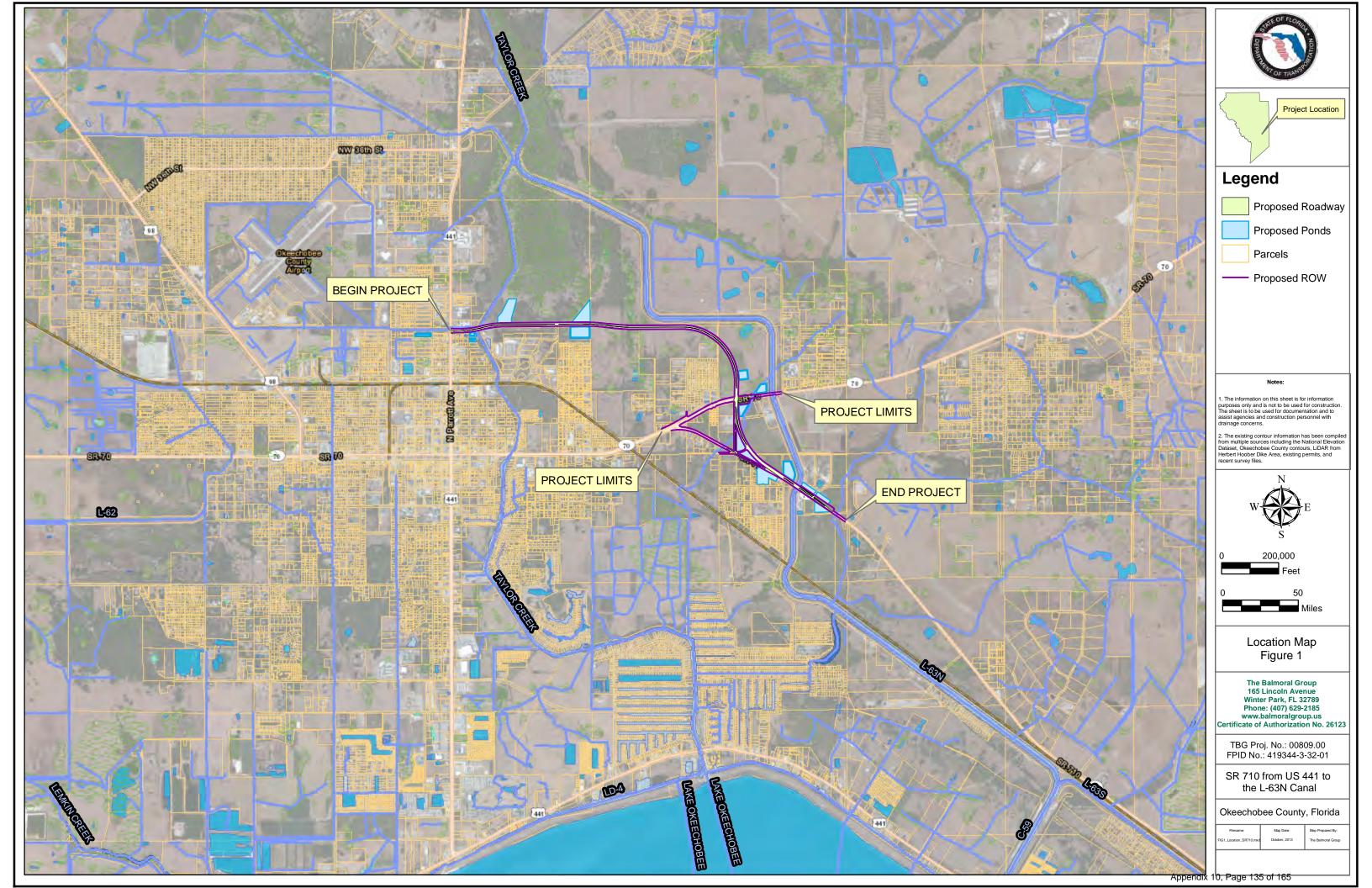
- 1. FDOT shall negotiate a Task Work Order with the Balmoral Group to prepare the feasibility study for the regional treatment options. The draft report is expected to be sent to FDEP & SFWMD for review by August 15, 2014.
- 2. FDEP and SFWMD to explore funding participation options and be prepared to make a funding commitment no later December 31, 2014 so that we may move forward with preparing an agreement.
- c. Attendees (Via Email)

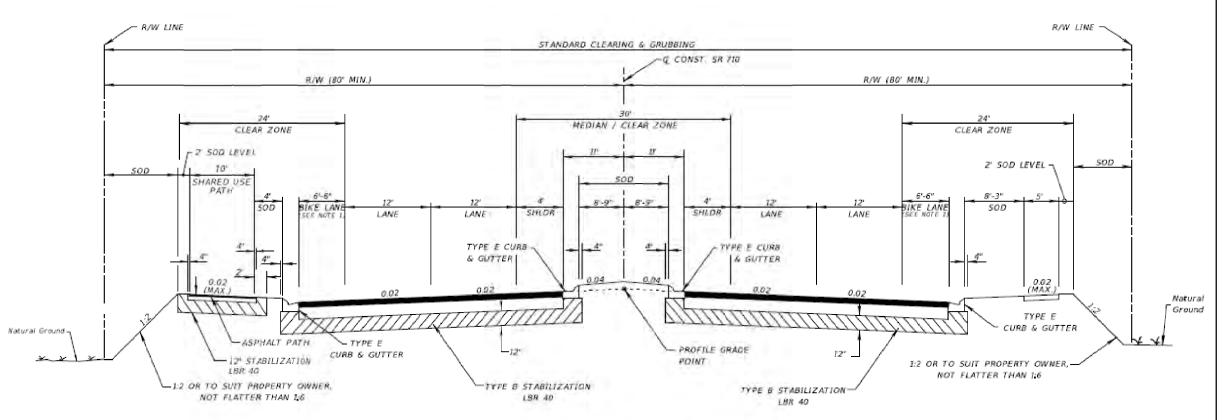
Attachment - Agenda Exhibits

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TYPICAL SECTION NO. 1 SR 710 STA. 500+00.00 TO STA. 703+50.00

TYPICAL SECTION NOTES:

1. PROVIDES FOR 8' USABLE SHOULDER.

NEW CONSTRUCTION

OPTIONAL BASE GROUP 11 WITH

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (4")

AND FRICTION COURSE FC-5 (¾") (RUBBER)

PATH

OPTIONAL BASE GROUP I WITH TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1")

TRAFFIC DATA

CURRENT YEAR = 2013 AADT = 7,100 ESTIMATED OPENING YEAR = 2015 AADT = 11,400 ESTIMATED DESIGN YEAR = 2035 AADT = 14,190 K = 9.0% D = 56.2% T = 20.9% (24 HOUR) DESIGN HOUR T = 10.5% DESIGN SPEED = 50 MPH

Typical Section Figure 2

The Balmoral Group 165 Lincoln Avenue Winter Park, FL 32789 Phone: (407) 629-2185 www.balmoralgroup.us Certificate of Authorization No. 26123

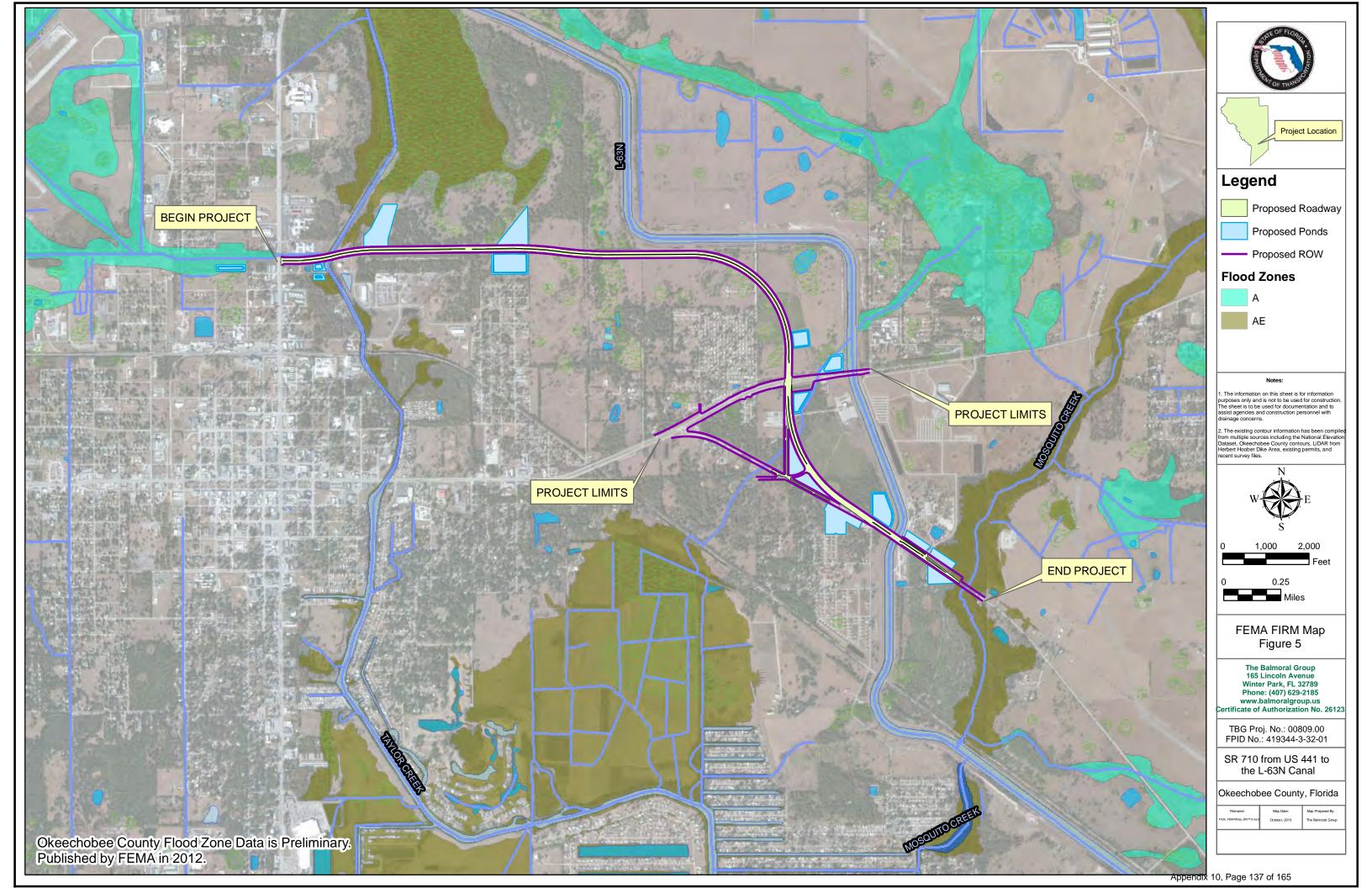
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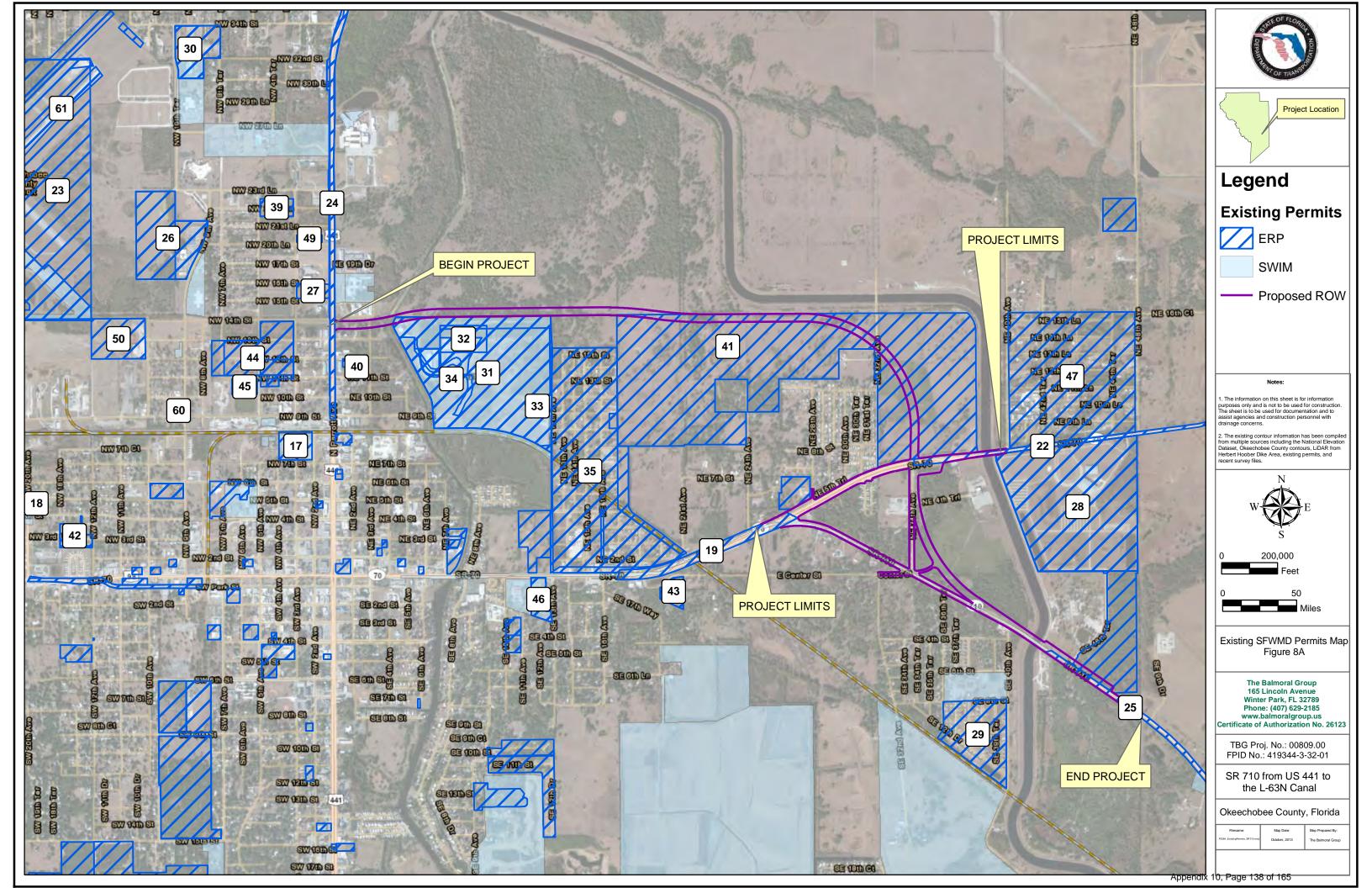
SR 710 from US 441 to the L-63N Canal

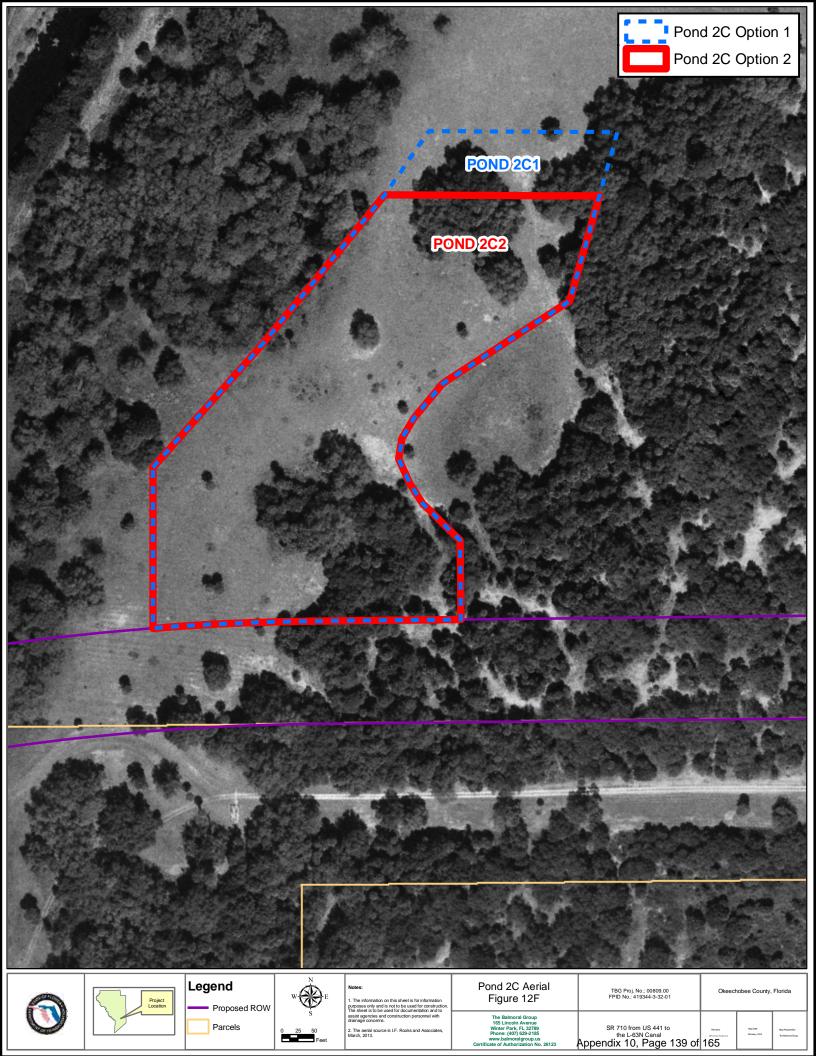
Okeechobee County, Florida

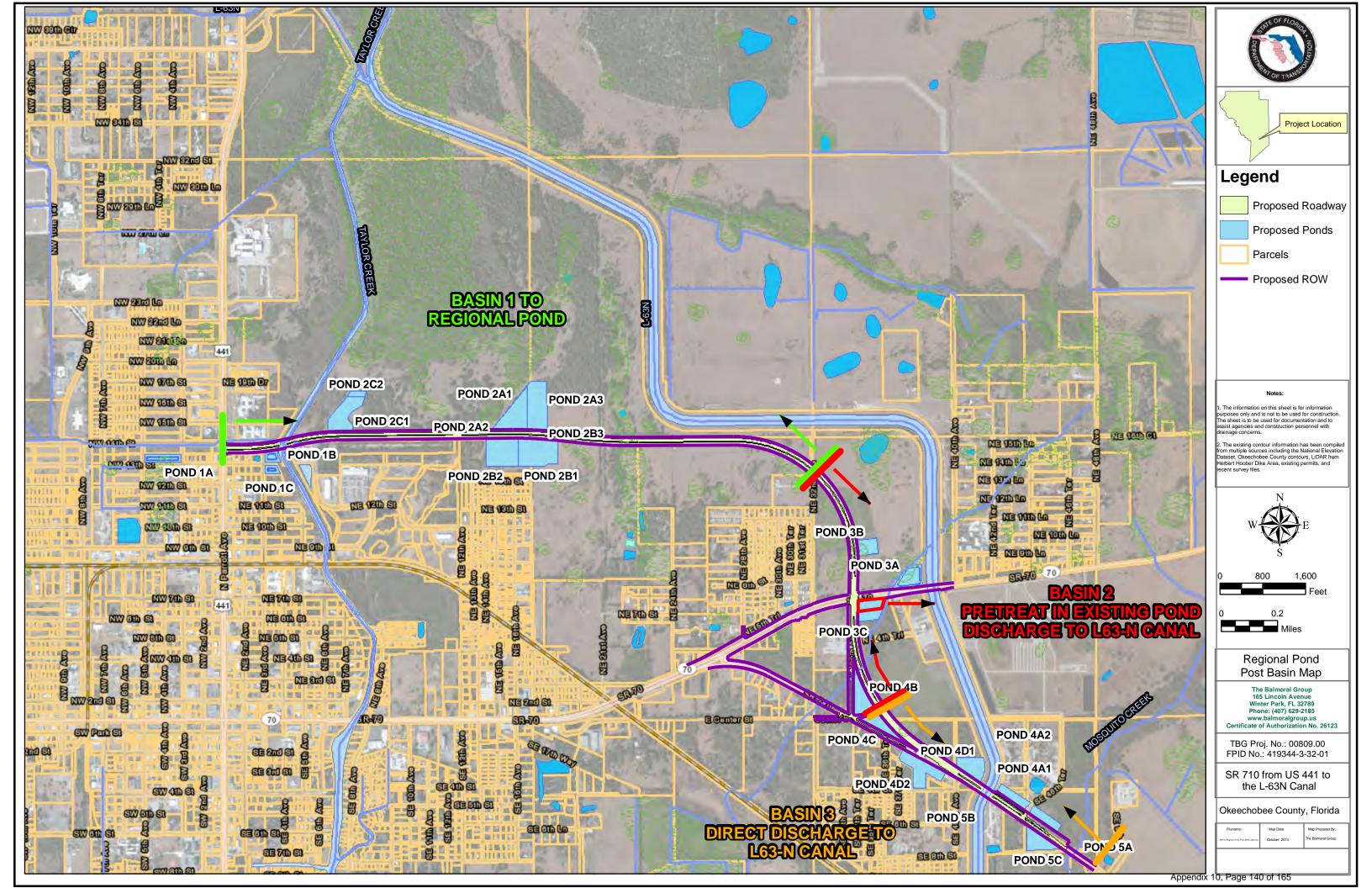
Filename:	Map Date:	Map Prepared By:
ypicalSection_SR710.mx	October, 2013	The Balmoral Group

Appendix 10, Page 136 of 165









SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study Initial Meeting with Hamrick Property Owner Meeting Minutes FPID No. 432644-1-32-01 - D1 DW Drainage

Location: District One, Bartow

Date: July 11, 2014 Time 11:00 am

The purpose of the meeting is to introduce the SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study as an investigation being undertaken by the FDOT District One as a part of the SR 710 new alignment project in Okeechobee.

Attendees: See attached Sign-In Sheet

- 1. Mr. Brent Setchell gave an introduction and project background on the SR 710 Feasibility Study to the property owners, Mr. Michael and Ms. Maryann Hamrick and their consultant, Morris Crady.
- 2. Mr. Greg Seidel introduced the regional pond alternative that is to be constructed by the FDOT for the SR 710. This option would incorporate offsite areas associated with Lower Taylor Creek.

Ms. Janet Hearn introduced the Stormwater Treatment Area (STA) alternative which would require interagency cooperation and be hydraulically connected to the L63-N canal and Upper Taylor Creek. Ms. Hearn said that the amount of nutrient reduction achieved by the STA would depend in part on the area of the STA but that a minimum size of 100 acres is desirable. This is comparable to the Taylor Creek STA which has a treatment area of 118 acres.

- 3. Ms. Amy Setchell gave a brief update on the SR 710 new alignment project from L-63N to US-41.
- 4. Mr. Hamrick reiterated that maintaining the integrity of the property is important to them.
- 5. As part of the study, a portion of the property will be surveyed to verify design assumptions. Access to the site will be coordinated with the ranch manager. Contact information to be provided by The Wantman Group. Survey will need to get started as soon as possible.
- 6. The next step is to set-up a Stakeholder Meeting in Okeechobee. This will be scheduled in the next two weeks. The Balmoral Group will be contacting the Hamricks regarding availability.

End of Minutes

SIGN IN SHEET

SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study Initial Meeting with Hamrick Property Owner Meeting Agenda FPID No. 432644-1-32-01 - D1 DW Drainage

Location: District One, Bartow

Date: July 11, 2014 Time 11:00 am

NAME	FIRM/AGENCY	OFFICE / RESPONSIBILITY	EMAIL ADDRESS	Initials
Carlton Spirio	FDOT	Drainage	Carlton.Spirio@dot.state.fl.us	
Brent Setchell	FDOT	Drainage	Brent.Setchell@dot.state.fl.us	B&
Amy Setchell	FDOT	PM	Amy.Setchell@dot.state.fl.us	aes
Michael Hamrick	Property Owner		MHamrick@manateelegal.com	my
Morris Crady				Moz
Gregory Seidel	The Balmoral Group	Consultant	gseidel@balmoralgroup.us	MM
Jennifer Nunn	The Balmoral Group	Consultant	jnunn@balmoralgroup.us	8m
Janet Hearn	ATM	Consultant	jhearn@appliedtm.com	John
Henri Belrose	Wantman Group	Consultant	Henri.belrose@wantmangroup.com	HB
Alfredo Rodriguez	Wantman Group	Consultant	Alfredo.rodriguez@wantmangroup.com	AR
Gregory Bowne	FDOT	Right-of-way	Gregory.Bowne@dot.state.fl.us	greg
Jennie Richard	FDOT	Right-of-way	Jennie.Richard@dot.state.fl.us	Dre
Morris Crac	y Lucidos ASS		Mcrady Clucido design. com	YMe
ARYANNH	AMRICK HAMRI	cichsons	ANNIE 4UF@ACI,com	mah
Nicole Monit	es foot	Permits	nicole. Monies @ dot. state fl.us	WWW

SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study Stakeholder Meeting Minutes FPID No. 432644-1-32-01 - D1 DW Drainage

Location: SFWMD Okeechobee Service Center, Okeechobee

Date: July 31, 2014 Time 10:30 am

The purpose of the meeting is to introduce the SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study as an investigation being undertaken by the FDOT District One as a part of the SR 710 new alignment project in Okeechobee.

Attendees: See attached Sign-In Sheet

- 1. Mr. Brent Setchell gave an introduction on the SR 710 Feasibility Study.
- 2. Mr. Greg Seidel gave a brief project history explaining how the SR 710 Feasibility Study has progressed to this point.
- 3. Mr. Greg Seidel introduced the regional pond alternative that is to be constructed by the FDOT for the SR 710. This option would incorporate offsite areas associated with Lower Taylor Creek.
 - a. Representatives from Okeechobee County confirmed the airport ditch is owned by the County from Taylor Creek up to airport property.
 - b. Mr. Setchell voiced his concern about conveying water from the airport ditch to the regional pond. He mentioned the preferred option on behalf of the FDOT would be to provide the required 1-inch of treatment for the SR 710 roadway and demonstrate that the nutrient removal shows a net benefit to the community.
 - c. Mr. Seidel mentioned that a lower treatment depth could be provided. He also indicated that a control structure could be located at Taylor Creek and securing flood rights from the property owners could be an option.
 - d. Mr. Setchell explained the SR 710 Regional Pond approach in that Basins 1 and 2 would be treated by the Regional Pond, Basin 3 and a portion of Basin 4 would pre-treat via the existing pond and that the remaining runoff would discharge directly to the L-63N Canal.
- 4. Ms. Janet Hearn introduced the Stormwater Treatment Area (STA) alternatives which would require interagency cooperation and be hydraulically connected to the L63-N canal and Upper Taylor Creek.
 - a. Ms. Hearn said that for planning purposes a 100-acre STA is being evaluated. This is comparable to the Taylor Creek STA which has a treatment area of 118 acres. A 100 acre STA could remove about 1,500 to 1,600 kg of TP per year. An overview of three potential locations for a 100 acre STA within the Hamrick property was presented. These three sites were selected to avoid wetlands.

- b. The Lake Okeechobee TMDL requires an in-lake concentration of 40 parts per billion (ppb) TP.
- FDEP added that the existing Taylor Creek STA provides approximately 1520 kg of removal.
- d. The STA 2 option would require some rehabilitation of the existing wetland in order to retain runoff from the surrounding property. This would provide additional storage and remove approximately 180 kg TP per year without additional flow from the L-63N Canal or Upper Taylor Creek.
- e. The STA 2 option could provide up to 1000 kg of removal if inflow was augmented with flow from L-63N Canal.
- f. Mr. Morris Crady asked if a combination of STA 1 and STA 2 would be possible in order to still use the property (i.e. for walking trails) in the winter. Mr. Seidel responded by saying the final STA choice is not part of the feasibility study and would be coordinated under final design.
- g. Mr. Setchell liked the fact that the STA 2 option would provide some treatment and attenuation. However, he expressed some concern for the STA 2 option since the restored wetlands would be limited on the treatment volume depth (storage) provided. Would this option still require a control structure and how would the western bank of Lower Taylor Creek be affected?
- h. If an STA option is chosen, FDOT would still need to obtain fill for the SR 710 project and this could be coordinated through agreements.
- i. Mr. Hamrick asked if an STA option would impact ranch operations. Ms. Bonnie Wolff Pelaez confirmed that the BMAP manual does not restrict cattle from the wetlands.
- j. Mr. Hamrick mentioned that the wetland portion of his property is the emotional piece, and the upland portion of his property is the economic piece.
- 5. Mr. Seidel mentioned that if an STA option was selected, FDOT would not be taking the lead on this design and this would most likely fall to the FDEP or SFWMD.
- 6. Mr. Jim Threewits reiterated his concerns with ponds adjacent to the right-of-way. The County has requested from FDOT that the new SR 710 alignment be a main corridor to attract development. The County wants this gateway to be pretty and attractive for development and does not want unattractive ponds or ponds along the roadway frontage. Mr. Threewits feels this is a chance to do something good and doesn't want to miss out and added that this is a very valuable piece of the land to the county.
 - a. Mr. Setchell responded by saying that FDOT is evaluating the need for pond fencing. FDOT is open to providing drainage easements for property owners to provide pond maintenance.
 - b. Mr. Setchell stated that FDOT does not want to move ponds away from the right-of-way due to the hydraulics and increase in cost.
- 7. Mr. Seidel commented that the current schedule calls for a decision to be reached by the end of the year.
 - a. Ms. Amy Setchell responded that the draft Feasibility report is due Sept. 22nd with the final report due Oct. 22nd.

- b. The next step is to review the information presented today individually with the stakeholders and obtain feedback as necessary.
- c. Final calculations need to be performed.

End of Minutes

c. Attendees Carl Spirio, P.E., FDOT Drainage Alfredo Rodriguez, P.E., Wantman

SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study Stakeholder Meeting Sign-In Sheet FPID No. 432644-1-32-01 - D1 DW Drainage

Location:

SFWMD Okeechobee Service Center Auditorium

3800 NW 16th Boulevard, Suite A, Okeechobee, FL 34972

Date:

July 31, 2014

Time

10:30 am

NAME	FIRM/AGENCY	OFFICE / RESPONSIBILITY	EMAIL ADDRESS	Initials
Carlton Spirio	FDOT	Drainage	Carlton.Spirio@dot.state.fl.us	
Brent Setchell	FDOT	Permitting	Brent.Setchell@dot.state.fl.us	Bal
Amy Setchell	FDOT	PM	Amy.Setchell@dot.state.fl.us	GES
Kevin Inlge	FDOT		Kevin.lngle@dot.state.fl.us	K51
Jeffrey Mednick	FDOT		Jeffrey. Mednick@dot.state.fl.us	JLM
Michael Hamrick	Property Owner	Hamrick & Sons	MHamrick@manateelegal.com	MH
Morris Crady	Lucido & Assoc.	Hamrick & Sons	mcrady@lucidodesign.com	MAC
Maryann Hamrick	Property Owner	Hamrick & Sons	Annie4UF@aol.com	mah
Regina Hamrick	Property Owner	Hamrick & Sons		
Gregory Seidel	The Balmoral Group	Project Drainage Engineer	gseidel@balmoralgroup.us	9M
Jennifer Nunn	The Balmoral Group	Project Drainage Engineer	jnunn@balmoralgroup.us	897
Janet Hearn	ATM	STA Designer	jhearn@appliedtm.com	jh
Henri Belrose	Wantman Group	Consultant PM	Henri.belrose@wantmangroup.com	
Alfredo Rodriguez	Wantman Group	Consultant Asst. PM	Alfredo.rodriguez@wantmangroup.com	AN
Kathy Scott	Okeechobee Co.	Kathy Airport TDC	kscott@co.okeechobee.fl.us	KS
Lee Evett	Okeechobee Co.	0	levett@co.okeechobee.fl.us	1
Jim Threewits	Okeechobee Co.	Adara	jthreewits@co.okeechobee.fl.us	CA
Kelly Baney	Okeechobee Co.		kbaney@co.okeechobee.fl.us	/
Katie Hallas	FDEP	PHONE	Katie. Hallas@dep. state.fl.us	
Elizabeth Alvi	FDEP	PHONE	Elizabeth.Alvi@dep.state.fl.us	
Jim Jeffords	USACE		jim.w.jeffords@usace.army.mil	
David Allen	City of Okeechobee		dallen@cityofokeechobee.com	
Lesley Bertolotti	SFWMD		lbertolo@sfwmd.gov	
millet bela	er FDACS		Bonie Wolff Pelace @ freshfor	wflori
Regina Hamri	0			

SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study Stakeholder Meeting Sign-In Sheet

FPID No. 432644-1-32-01 - D1 DW Drainage

Location:

SFWMD Okeechobee Service Center Auditorium

3800 NW 16th Boulevard, Suite A, Okeechobee, FL 34972

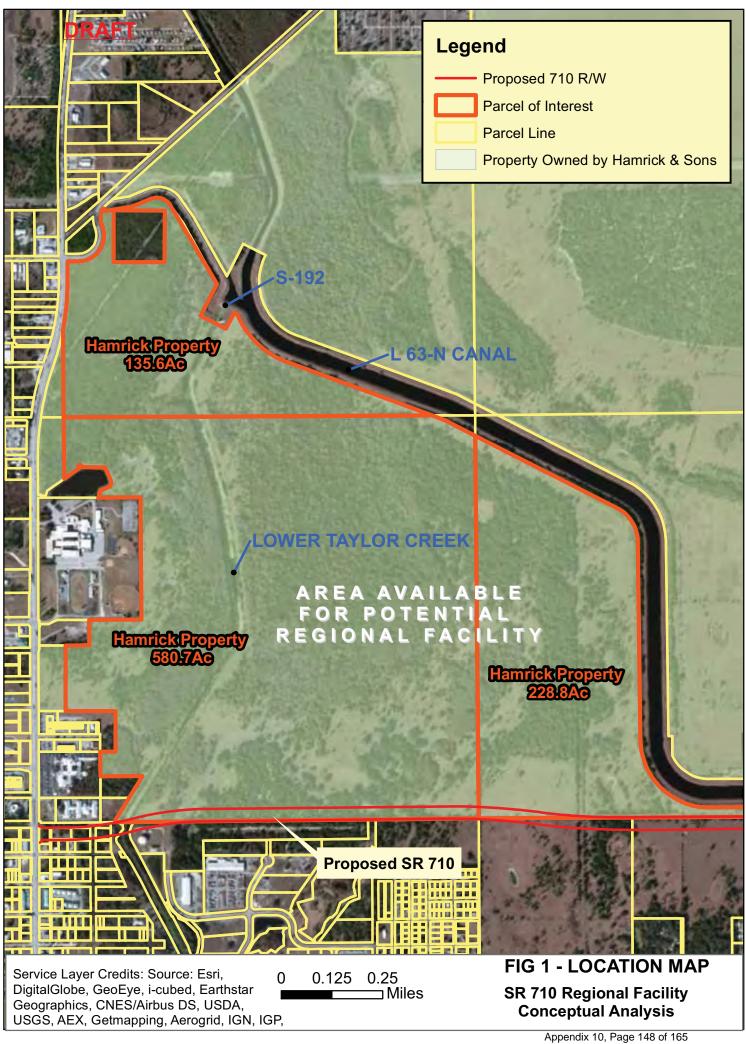
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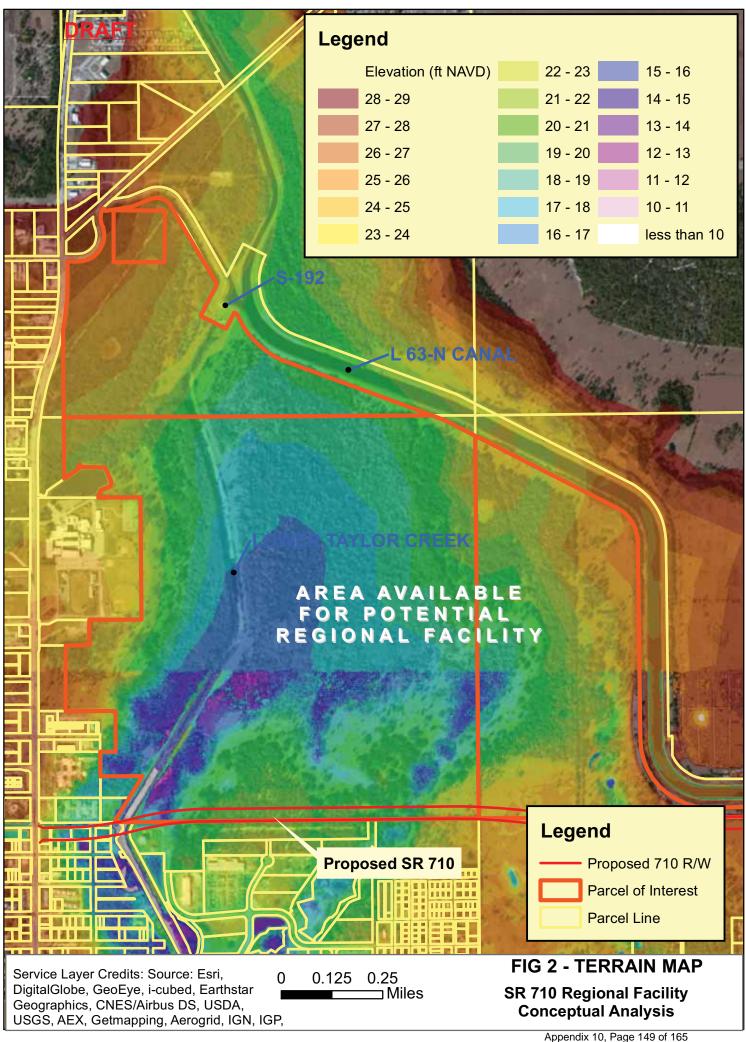
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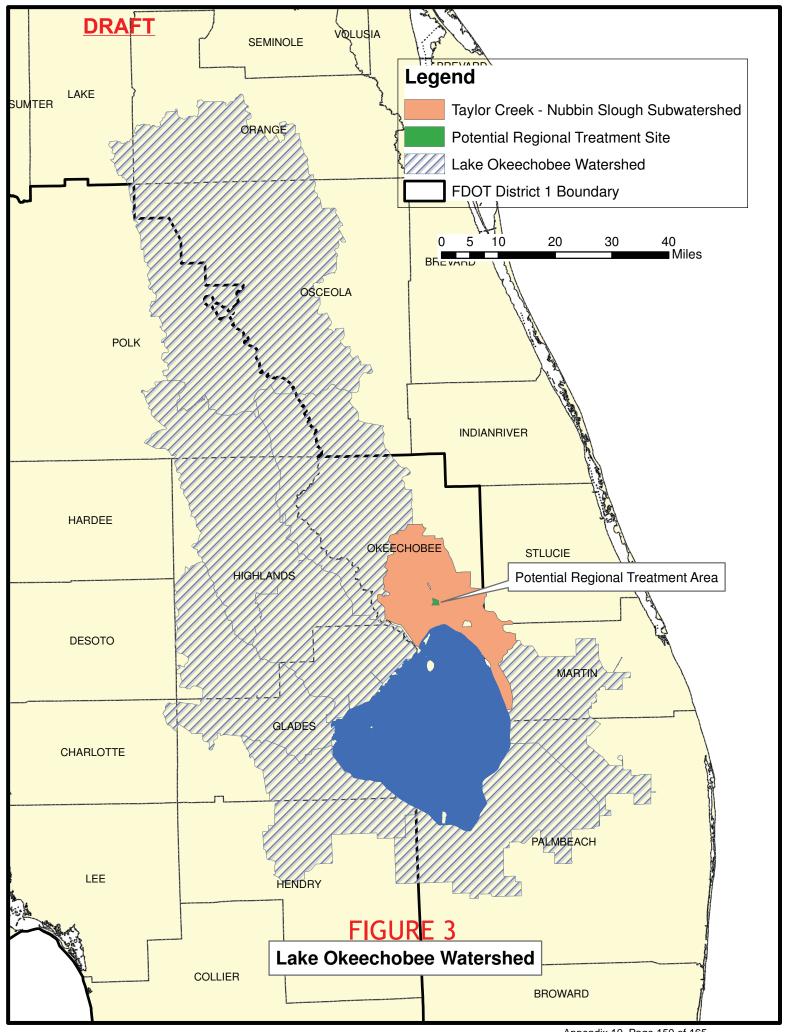
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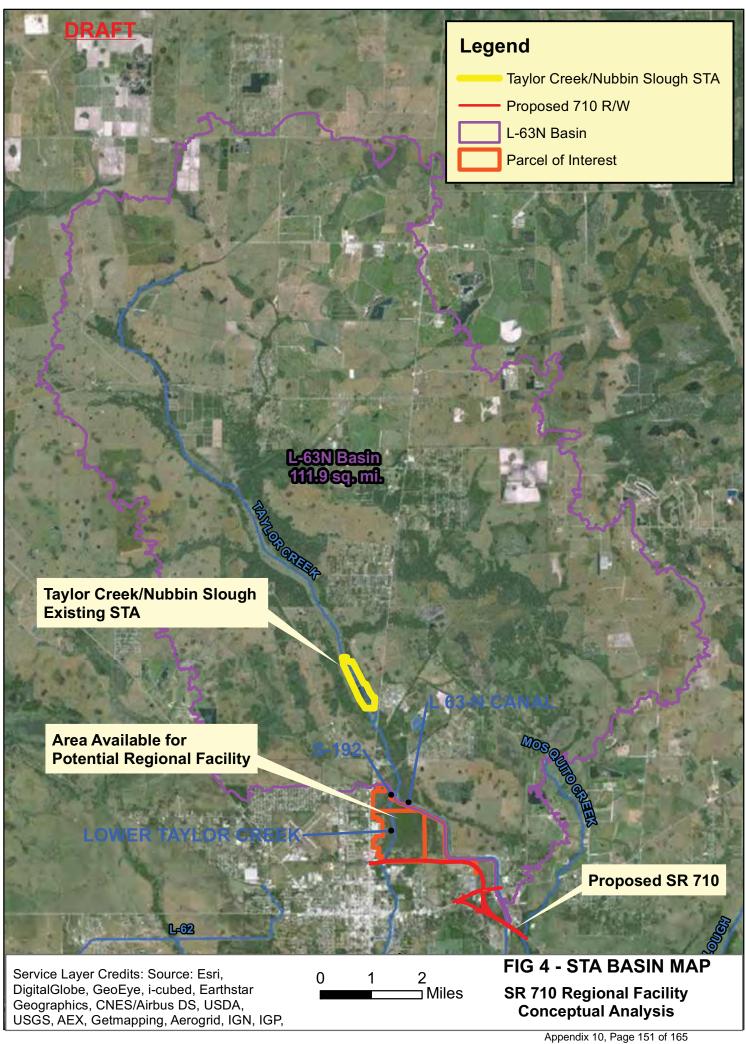
10:30 am

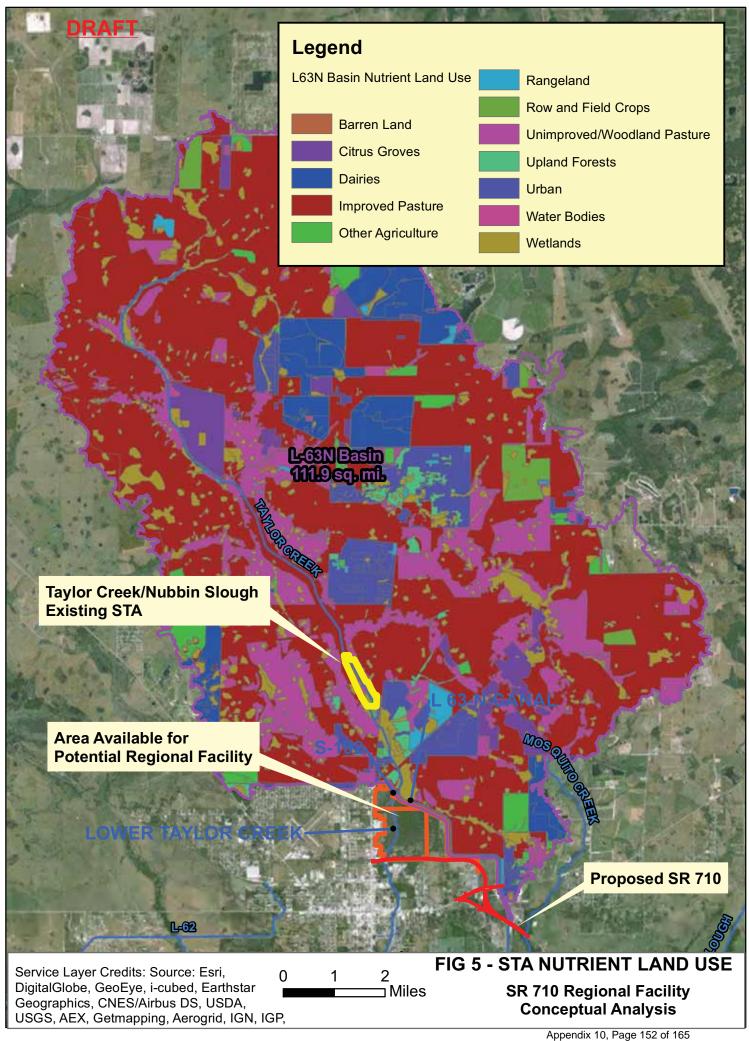
NAME	FIRM/AGENCY	OFFICE / RESPONSIBILITY	EMAIL ADDRESS	Initials
GARY RITTER	SFWMD	INTER GON	gritter @ Stwmd.gov	(4)
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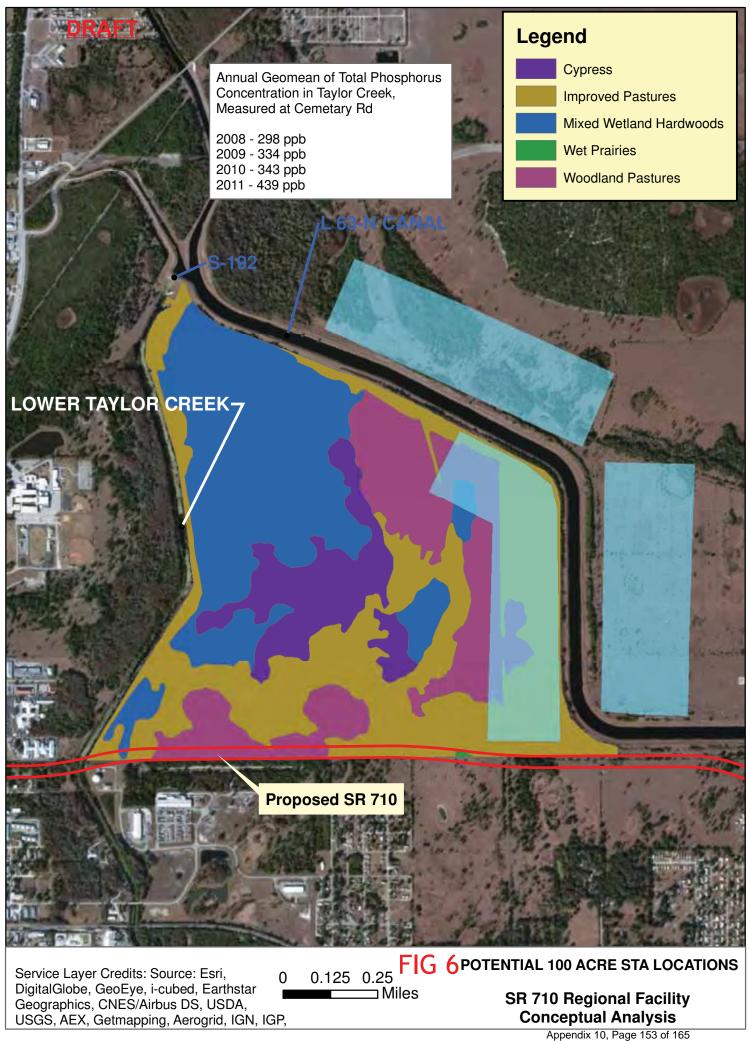


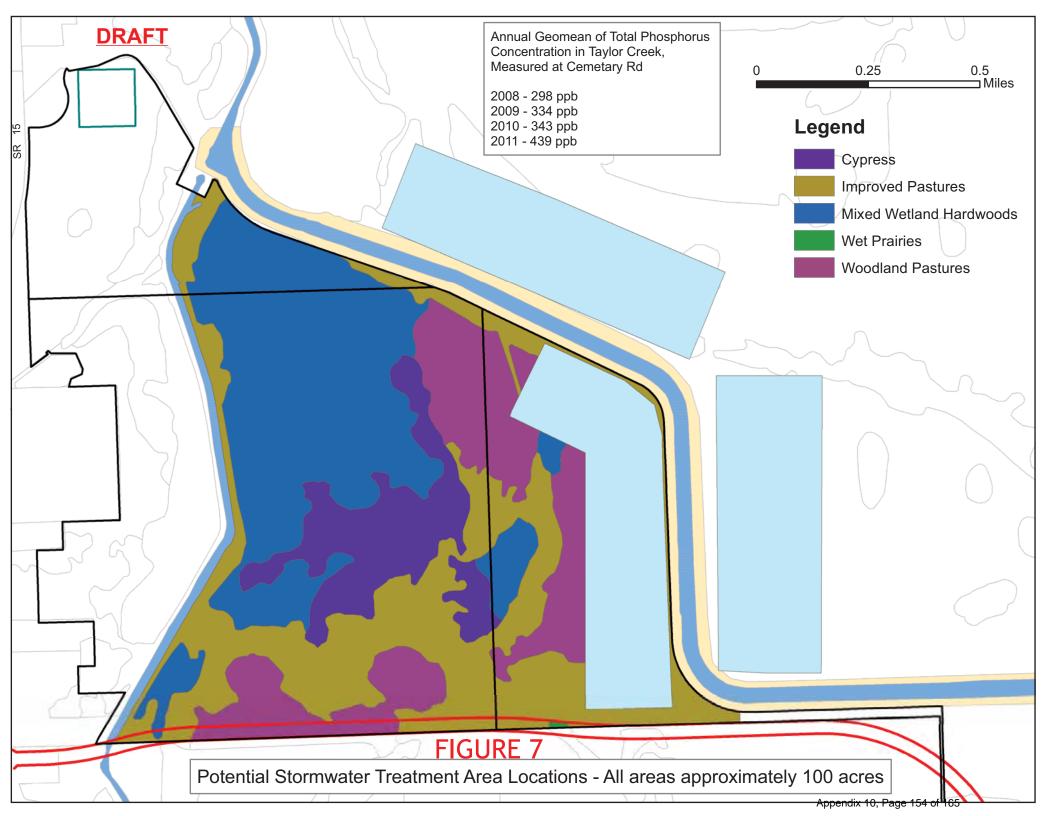


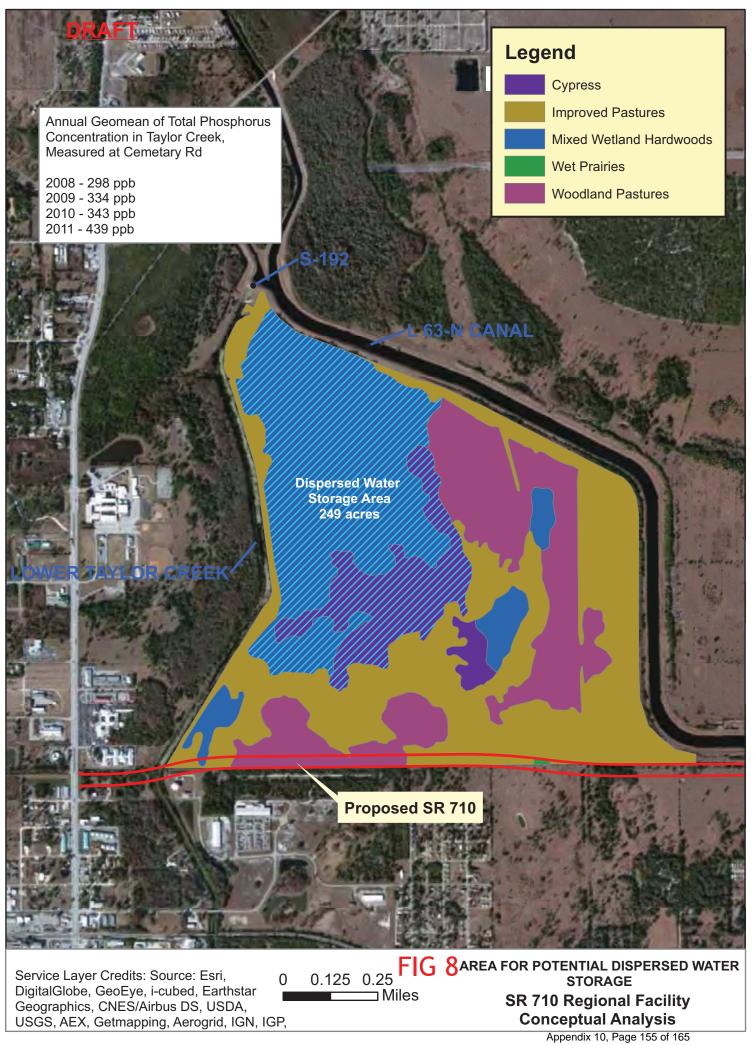


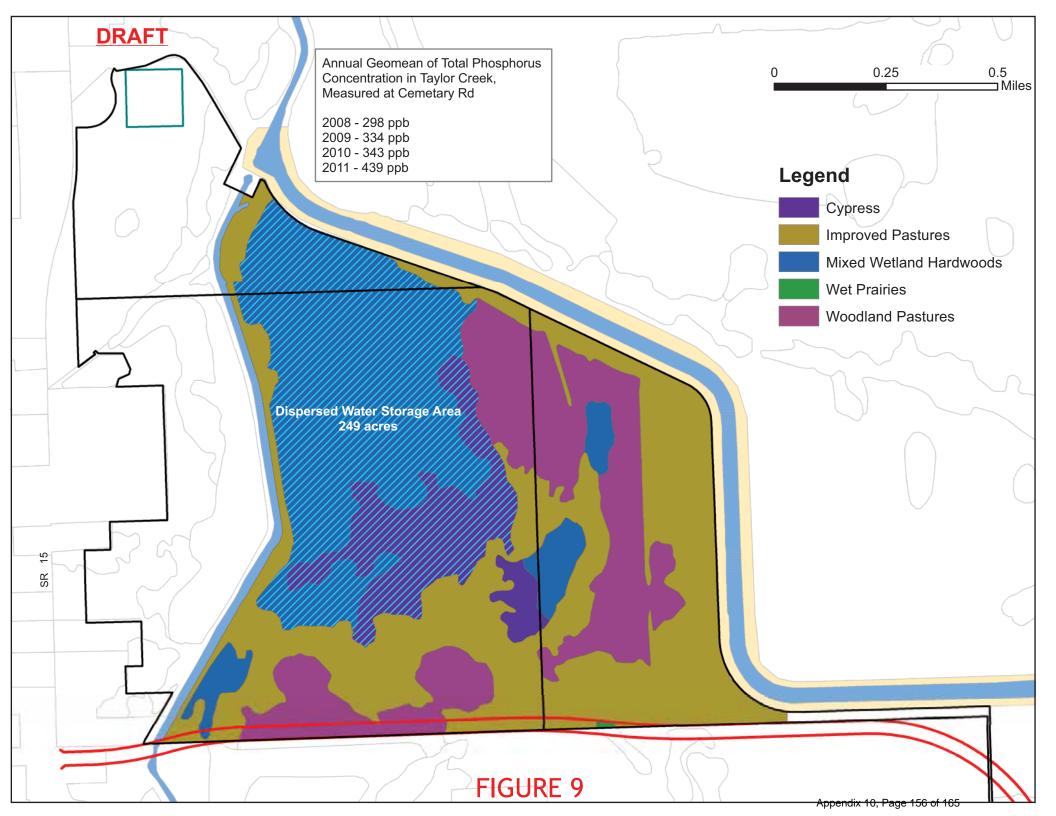


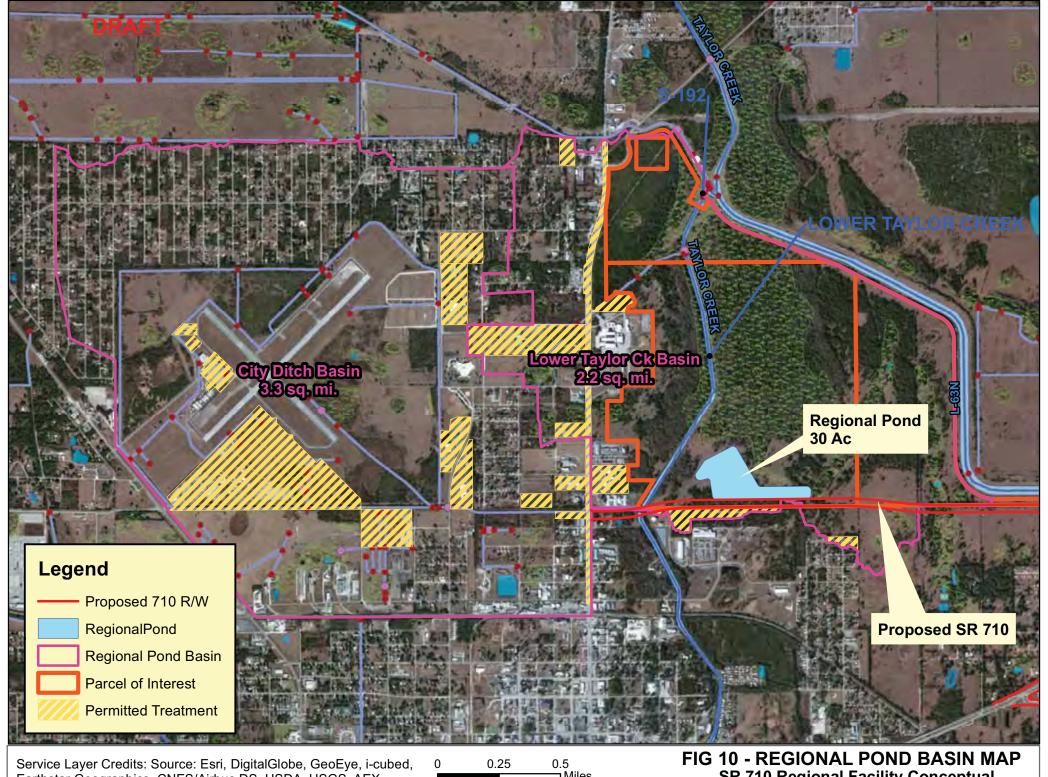










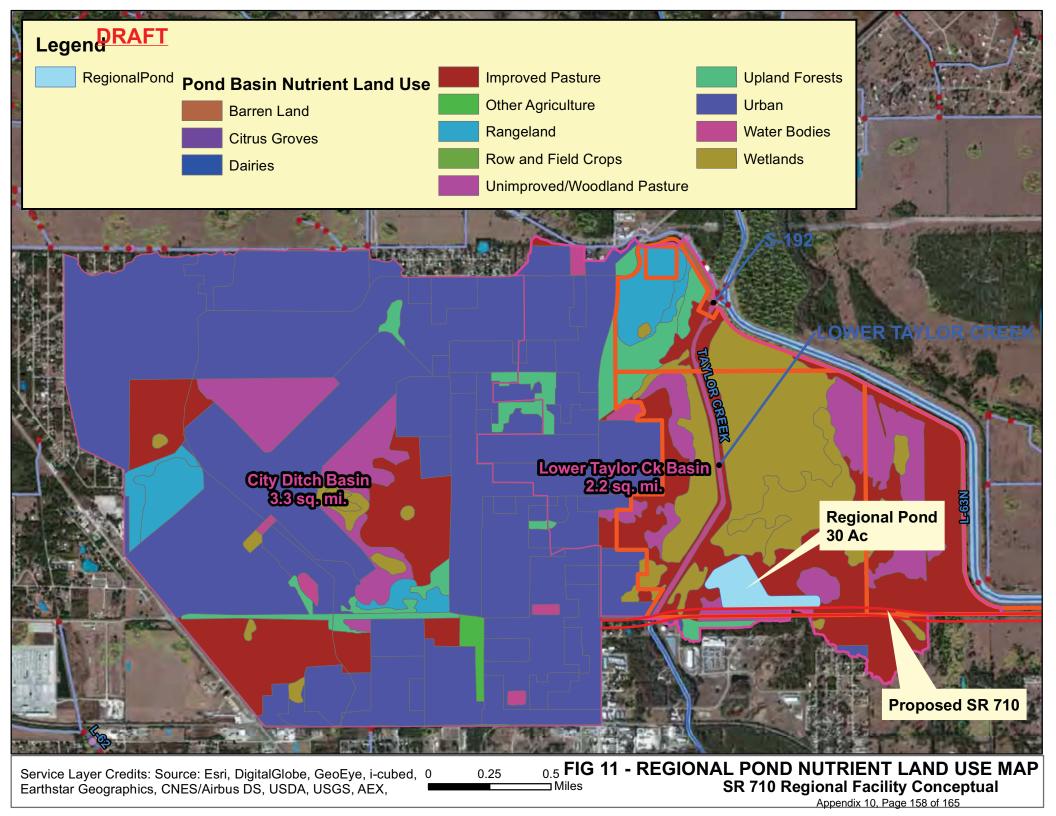


Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX,

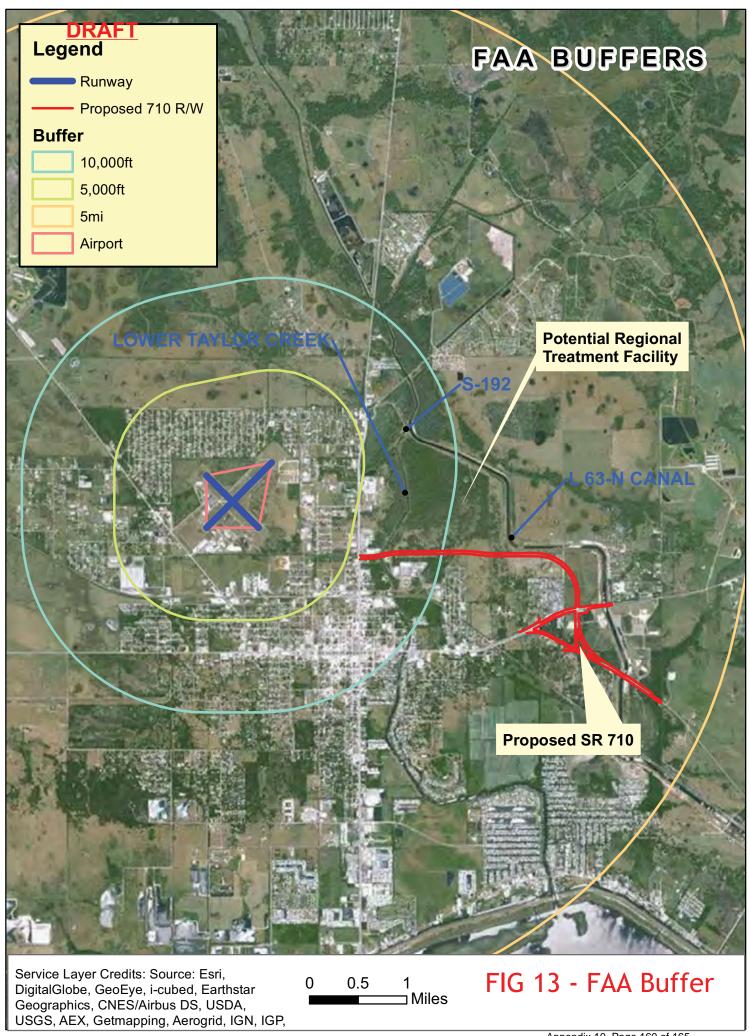
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SR 710 Regional Facility Conceptual

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SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study GOTO Meeting with Mike Hamrick, Property Owner Meeting Minutes FPID No. 432644-1-32-01 - D1 DW Drainage

Location: GotoMeeting
Date: August 12, 2014

Time 9:00 am

By: Greg Seidel Checked By: Janet Hearn

Attendees: Mike Hamrick, Tony Federico, Greg Seidel, Janet Hearn,

- 1. A Gotomeeting was held between Greg Seidel, Janet Hearn, Mr. Hamrick and Mr. Hamrick's consultant, Tony Federico, to advise him regarding pollutant loadings and discharges. Mr. Federico is a principal at Federico, Lamb and Associates and has worked extensively on water quality issues in the Lake Okeechobee basin.
- 2. Greg Seidel went through the Regional Pond/ STA options that are being reviewed by the FDOT and gave a brief project history of SR 710 and how we have gotten to this point. Mr. Federico asked multiple questions for clarification and inquired as to the preliminary loading rate calculations. Janet Hearn will provide preliminary rate calculations for his review.
- 3. Mr. Hamrick indicated that their preferred location for an STA would be in the triangle of land to the north of where Taylor Creek and the L-63 canal diverge but that they have not ruled out any of the other locations presented to date. Greg noted that putting something in the north triangle would be difficult because of the gas line that runs through that portion of the property. Mr. Hamrick said that the easement he negotiated for the gas line is more flexible than the standard easement language and may give FDOT more flexibility. The exhibit developed for the Hamricks that was shown at the stakeholder meeting was just an exhibit to demonstrate a size comparison; it was not a location exhibit.
- 4. Mr. Hamrick said that it is important to maintain the integrity of the property and the current level of use of the property.
- c. Attendees
 Brent Setchell, FDOT
 Carl Spirio, FDOT
 Amy Setchell, FDOT
 Jennifer Nunn, Balmoral Group

Greg Seidel

From: Setchell, Amy <Amy.Setchell@dot.state.fl.us>
Sent: Thursday, September 04, 2014 1:25 PM

To: Mike Hamrick; Greg Seidel; federico@fla-inc.com; JHearn@AppliedTM.com

Cc: Setchell, Brent; Spirio, Carlton D; Jennifer Nunn

Subject: RE: SR 710 Regional Pond Hamrick Meeting Minutes.2014.08.12

Mr. Hamrick,

The Department has received your email and it will be documented as part of the SR710 Feasibility Study. We appreciate your participation and interest in the project and look forward to sharing the results of study with you.

Thank you,

Amy Setchell, P.E. Project Manager FDOT District 1 801 N. Broadway Ave. Bartow, FL 33830 P:(863)519-2609

Email: Amy.Setchell@dot.state.fl.us

From: Mike Hamrick [mailto:MHamrick@manateelegal.com]

Sent: Thursday, September 04, 2014 11:45 AM

To: Greg Seidel; federico@fla-inc.com; JHearn@AppliedTM.com
Cc: Setchell, Amy; Jennifer Nunn

Subject: RE: SR 710 Regional Pond Hamrick Meeting Minutes. 2014.08.12

Greg,

Thank you for the minutes. As to your 4th point in the minutes (which are similarly stated in prior minutes as well), I thought it might be helpful for me to express in writing what I have attempted to say by spoken word. Thus, in hopes of avoiding a misunderstanding, let me express the position of Hamrick & Sons, Inc. this way:

Hamrick & Sons, Inc. has been approached by DOT and other entities with various concepts and ideas relating to drainage options in the construction of the SR 710 Extension. Thus far, these ideas have consisted of a "Regional Pond", a Stormwater Treatment Area and a Water Dispersal Area. Thus far, for understandable reasons, there has been limited information on acreage to be used and no information whatsoever on compensation to the landowner. Hamrick & Sons, Inc. has made no demands on the continued use of the property or the size of the project. What we have said is that the property is currently an operating cattle ranch (both to the north and the south of the L-63 canal). If the purposes of the relevant entities could be accomplished with minimal disruption to the present use of the property, that is a factor is making such an endeavor attractive to Hamrick & Sons, Inc. If the relevant entities desire to use the property in a way that would substantially impair or eliminate part or all of the use of the property to the south of the L-63 canal for cattle purposes, then Hamrick & Sons, Inc. would simply have to evaluate the compensation being proposed against the lost revenue from a cut back in the existing cattle operations. While continued "integrity" of the property in its current use is attractive to Hamrick & Sons, Inc., at no time have we indicated that we would not look at any proposed project where more substantial changes would occur. Having said that, Hamrick & Sons is left without much of a way to evaluate anything without more definitive direction from the relevant entities, including, at some point, an indication of dollars associated with each decision. Nothing has been ruled off the table. For that matter, I don't have

a good feeling for what is on the table as no "discussion" has yet led to what I would categorize as a firm proposal on how to proceed.

Mike Hamrick President, Hamrick & Sons, Inc.

601 12th Street West Bradenton, Florida 34205 mhamrick@manateelegal.com Phone: (941) 747-1871 Facsimile: (941) 745-2866

www.manateelegal.com

From: Greg Seidel [mailto:GSeidel@balmoralgroup.us]
Sent: Thursday, September 04, 2014 11:05 AM

To: Mike Hamrick; federico@fla-inc.com; JHearn@AppliedTM.com

Cc: Setchell, Brent (Brent.Setchell@dot.state.fl.us); CARLTON.SPIRIO@DOT.STATE.FL.US; Amy.Setchell@dot.state.fl.us;

Jennifer Nunn

Subject: SR 710 Regional Pond Hamrick Meeting Minutes.2014.08.12

Dear All -

Please find attached the notes from the GotoMeeting with Mike Hamrick and Tony Federico regarding the proposed Regional Pond/Stormwater Treatment Area at the proposed SR 710, Airport Ditch and Lower Taylor Creek confluence. Please let me know if you have any questions or comments.

Regards,

Greg



Gregory S. Seidel, P.E. The Balmoral Group 165 Lincoln Ave. Winter Park, FL 32789

Phone: 407.629.2185, ext 103

Mobile: 407.739.4899 Fax: 407.629.2183

e-Mail: gseidel@balmoralgroup.us
Web: http://www.balmoralgroup.us

SR 710 Stormwater Treatment Area/Regional Pond Feasibility Study SR 710 Conceptual Regional Pond/STA Meeting with Avcon Representing Okeechobee Meeting Minutes

FPID No. 432644-1-32-01 - D1 DW Drainage

Location: AVCON, 5555 E. Michigan Street, Suite 200 Orlando, FL 32822-2779

Date: Thursday, August 14, 2014

Time 3:00pm

Attendees:

1. Greg Seidel - The Balmoral Group, Drainage

- 2. Jim Kriss-AVCON, Principal
- 3. Hilary Maull AVCON, Project Manager-Airports
- 4. Brent Setchell (by phone) FDOT, Project Manager

Purpose: The purpose of the meeting is for The Balmoral Group to present a brief recap of the stakeholder kickoff meeting to the Okeechobee Airport General Consultant and to share information to help determine if the airport may benefit from the project and be a contributing stakeholder should the project move forward.

- 1. Greg Seidel began the meeting by giving a project background to AVCON. Avcon is the general consultant for the Okeechobee County Airport and has developed their master stormwater plan.
- 2. Greg Seidel gave the background review.
- 3. Discussion was held regarding FAA requirements for a new pond within the FAA Wildlife Management Area. Mr. Seidel presented the map showing that the new proposed ponds would lie within this area. It was noted that if the airport got involved the requirements may be more stringent because the FAA dollars would be included in the project.
- 4. Mr. Kriss indicated that there was certainly some possibility for the group to work together and it all seemed very reasonable. The other issue the airport had was they were looking for mitigation credits for wetland impacts to their site. There was a previous worked out deal on the table with a mitigation bank, however that deal fell through and so this is an ongoing issue and the airport is pursuing possible mitigation options.
- 5. The meeting ended with the decision that AVCON would approach the FAA regarding non project specific questions and once those questions were answered they would return to discuss the responses with the FDOT. We would go forward from that point.
- c. Attendees
 Amy Setchell, FDOT
 Carl Spirio, FDOT
 Jim Threewits, Okeechobee County
 Kathy Scott, Okeechobee County
 Kelly Baney, Okeechobee County
 Jennifer Nunn, Balmoral Group

Greg Seidel

From: Jennifer Nunn

Sent:Friday, September 12, 2014 8:24 AMTo:Jose Otero (jotero@sfwmd.gov)

Cc: Hearn, Janet; Greg Seidel; Ostrovsky, Moysey

Subject: SR 710 Regional Pond/STA Feasibility Study - SFWMD Operations

Attachments: Location.pdf

Jose,

Per our phone conversation on 9/9/14, I am following up with an email to request additional information regarding the structures S-192 and S-133/S-193. The Balmoral Group has been contracted to perform a feasibility study for regional pond and STA options in the Lower Taylor Creek area. This is being undertaken by the FDOT District One as a part of the SR 710 new alignment project in Okeechobee. The SR 710 New Alignment Project in Okeechobee County and the City of Okeechobee is currently under design by the FDOT. During the development of the Pond Siting Report, one of the pond sites was identified as a possible location for a regional stormwater treatment facility that could provide greater stormwater treatment benefits to the local area. This undeveloped area is located east of the City of Okeechobee, just south of the confluence of Lower Taylor Creek and the L-63N Canal. This property appears to owned and controlled by Hamrick and Sons based on the local property appraiser website and the FDOT deed research. Please see attached map.

Per our discussion Tuesday, it was confirmed that the US Army Corps built and conveyed S-192 and S-133/S-193 to the SFWMD.

Please answer and provide clarification on the following:

- Who has the authority to modify the structure or operation of the structure?
- What is the process of modifying the structure or operation manual? Who performs the review of these changes?
- Who controls the levees along the L-63N and who would review additional connections to the L-63N?
- Specifically, how is the S-192 and S-193/S-133 structures operated to date? The information we obtained is from a Draft 2005 Central and Southern Florida Project For Flood Control and Other Purposes System Operating Manual for Lake Okeechobee and Everglades Agricultural Area Volume 3, December 2005. Is there a more recent Operating Manual with update information?

Let me know if you have any questions.

Thanks,



The Balmoral Group

165 Lincoln Avenue Winter Park, FL 32789 T: 407.629.2185 ext 108

1. 407.029.2165 ext 10

F: 407.629.2183