

**AGENDA**  
**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**  
**GOVERNING BOARD MEETING AND PUBLIC HEARING**

**OPEN TO THE PUBLIC**

December 10, 2019  
9:00 a.m.

District Headquarters  
Live Oak, Florida

1. Call to Order
2. Roll Call
3. Announcement of any Amendments to the Agenda by the Chair  
**Amendments Recommended by Staff:** None
4. Public Comment
5. Consideration of the following Items Collectively by Consent:
  - Agenda Item No. 6 - November 12, 2019 Governing Board and Workshops Minutes
  - Agenda Item No. 11 - Approval of October 2019 Financial Report
  - Agenda Item No. 22 - Authorization to Execute a Contract for the Sale of Timber with Williams Timber, Inc. for the Natural Well Branch #2 Timber Sale
6. Approval of Minutes – November 12, 2019 Governing Board and Workshops Minutes - **Recommend Consent**
7. Items of General Interest for Information/Cooperating Agencies and Organizations:
  - A. Presentation of Hydrologic Conditions by Fay Baird, Senior Hydrologist, Water Resource Division
  - B. Cooperating Agencies and Organizations

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**GOVERNING BOARD LEGAL COUNSEL**  
**Tom Reeves**

8. Update on Legal Activities / Enforcement Status Update

**BUSINESS AND COMMUNITY SERVICES**  
**Steve Minnis, Deputy Executive Director**

**Administration**

BCS Page 1

9. Land Acquisition and Disposition Activity Report

BCS Page 5

10. Authorization to Enter into Contract with Gray Construction Services, Inc. for Restroom Renovations

Finance

- BCS Page 6 11. Approval of October 2019 Financial Report – **Recommend Consent**
- BCS Page 16 12. Approval of Consolidated Special Revenue Fund Structure for Fiscal Year 2020-2021 Budget and Financial Reporting
- BCS Page 17 13. Approval of Resolution No. 2019-09 for Release of Funds from the Water Protection and Sustainability Program Trust Fund
- BCS Page 20 14. Approval of Fiscal Year 2020-2021 Preliminary Budget Submission

Resource Management

- BCS Page 21 15. Permitting Summary Report
16. FEMA Dashboard Update
- BCS Page 24 17. Approval of the 2019 FEMA Risk MAP Program Five-Year Business Plan
- BCS Page 55 18. Authorization to Enter into Contract with AECOM for FEMA FY 2017 and 2018 Risk MAP Product Production Consultant Services

Agriculture and Environmental Projects

- BCS Page 71 19. Approval to Enter into Contract with Grimmway Enterprises, Inc. for Agriculture Cost-Share Funding
- BCS Page 73 20. Authorization to Enter into Agreements with Cooperators for Alternative Water Supply Grant Projects

**WATER AND LAND RESOURCES**  
**Tom Mirti, Deputy Executive Director**

Land Management Program

- WLR Page 1 21. District Land Management and Twin River State Forest Activity Summary
- WLR Page 5 22. Authorization to Execute a Contract for the Sale of Timber with Williams Timber, Inc. for the Natural Well Branch #2 Timber Sale – **Recommend Consent**

Water Resources Program

- WLR Page 6 23. Agricultural Water Use Monitoring Report

**EXECUTIVE OFFICE**  
**Hugh Thomas, Executive Director**

- EO Page 1 24. District's Weekly Activity Reports



AGENDA

SUWANNEE RIVER WATER MANAGEMENT DISTRICT  
GOVERNING BOARD WORKSHOP

OPEN TO THE PUBLIC

December 10, 2019  
Following Board Meeting

District Headquarters  
Live Oak, Florida

- BMAP Presentation
- Sustainable Suwannee Discussion
- 2019 Strategic Plan Annual Update & 2020-2024 Strategic Plan Discussion
- Lower Santa Fe/Ichetucknee MFL Technical Report

SUWANNEE RIVER WATER MANAGEMENT DISTRICT  
MINUTES OF  
GOVERNING BOARD MEETING AND PUBLIC HEARING

Note: A digital recording system has been used to record these proceedings and is on file in the permanent files of the District. A copy of the Governing Board materials and handouts are a part of the record as if set out in full herein, and are filed in the permanent files of the District.

9:00 a.m., Tuesday  
November 12, 2019

District Headquarters  
Live Oak, Florida

Agenda Item No. 1 – Call to Order. The meeting was called to order at 9:01 a.m.

Agenda Item No 2 – Roll Call

**Governing Board**

Seat	Name	Office	Present	Not Present
Aucilla Basin	Vacant		-	-
Coastal River Basin	Richard Schwab	Sec./Treas.	X	
Lower Suwannee Basin	Don Quincey, Jr.	Vice Chair	X	
Santa Fe & Wacc. Basins	Vacant		-	-
Upper Suwannee Basin	Vacant		-	-
At Large	Virginia H. Johns	Chair	X	
At Large	Virginia Sanchez		X	
At Large	Gary Jones		X	
At Large	Charles Keith		X	

**Governing Board Legal Counsel**

Name	Firm	Present	Not Present
George T. Reeves	Davis, Schnitker, Reeves & Browning, P.A.	X	

**Leadership Team**

Position	Name	Present	Not Present
Executive Director	Hugh Thomas	X	
Deputy Executive Director	Tom Mirti	X	
Deputy Executive Director	Steve Minnis	X	
Executive Office & Board Coordinator	Robin Lamm	X	

**Guests:**

Kelly Aue, Suwannee River Partnership	Morgan Westberry, FDEP
William Whitelock, City of High Springs	Joel De Coursey, Jr., City of High Springs
Rodney Hoffman, City of High Springs	Jason Dodds, Bradford County Road Department
Kent Koptiuch, NRNA	Brad Carter, Bradford County
Madeline Hart, FDACS OAWP	William Sexton, Bradford County Attorney
Doug Manson, Manson & Bolves	Carolee Howe, Shenandoah Dairy
Kevin Wright, Generation Farms	Mike Roth, Our Santa Fe River
John Locklear, Locklear & Associates	Rebecca Perry, NFLT
Chad Rischar, DRMP	Lucinda Merritt, Ichetucknee Alliance
Steve Gladin	Merrilee M. Jipson
Jeff Hill	Georgia Schmitz

**Staff:**

Warren Zwanka	Katelyn Potter
Tyler Jordan	Tilda Musgrove
Leroy Marshall	Pat Webster
Lindsey Garland	Steve Schroeder

Jon Wood  
Pam Shaw  
John Good  
Mary Diaz  
Bill McKinstry  
Darlene Velez

Matt Cantrell  
Christina Green  
Paul Buchanan  
Sam Long  
Fay Baird

Agenda Item No. 3 - Announcement of any Amendments to the Agenda by the Chair: None

Agenda Item No. 4 – Public Comment:

- Carolee Howe, Shenandoah Dairy – Thank you for Agricultural support.
- Merrilee M. Jipson – Seven Springs water use permit concerns.
- John Locklear, DRMP – Thanked the District for improvement with our procurement process.
- Mike Roth, Our Santa Fe River – Seven Springs water use permit concerns.

Agenda Item No. 5 - Consideration of the Following Items Collectively by Consent:

- Agenda Item No. 6 - Approval of Minutes – October 10, 2019 Board Meeting Minutes, October 11, 2019 Lands Committee and Board Workshops Minutes
- Agenda Item No. 11 - Approval to Proceed with Negotiations with Jean Turner Drufrner for the Purchase of a 10 acre +/- Parcel of Real Property Located in Hamilton County
- Agenda Item No. 12 - Approval to Declare as Surplus Two Adjoining Parcels Totaling 10.56 Acres +/- of Real Property Located in Gilchrist County
- Agenda Item No. 13 - Approval of Agreement with North Florida Land Trust
- Agenda Item No. 14 - Approval of September 2019 Financial Report
- Agenda Item No. 22 - Authorization to Execute a Contract for the Sale of Timber with Suwannee Timber Management LLC for the Ellaville #18 Timber Sale
- Agenda Item No. 23 - Authorization to Execute a Contract for the Sale of Timber with Boland Timber Company for the Natural Well Branch #1 Timber Sale
- Agenda Item No. 24 - Approval of the Amended and Restated Carter Camp Addition Tract Lease Agreement with the Florida Department of Environmental Protection

MOTION WAS MADE BY QUINCEY, SECONDED BY SCHWAB TO APPROVE THE RECOMMENDATION. MOTION CARRIED UNANIMOUSLY.

Agenda Item No. 6 – Approval of Minutes – October 10, 2019 Board Meeting Minutes, October 11, 2019 Lands Committee and Board Workshops Minutes. Approved on Consent.

Agenda Item No. 7 - Items of General Interest for Information/Cooperating Agencies and Organizations:

- Faye Baird gave a presentation of hydrologic conditions of the District.
- Cooperating Agencies and Organizations – None
- Service Recognition – Jon Wood and John Good were recognized by the Board for 25 years of service.

**GOVERNING BOARD LEGAL COUNSEL**

Agenda Item No. 8 – Legal Activities Update. Tom Reeves, Board Legal Counsel, updated the Board on the Hill cases and the Cothran case.

## **BUSINESS AND COMMUNITY SERVICES**

### **Administration**

Agenda Item No. 9 – Land Acquisition and Disposition Activity Report. This report was provided as an informational item in the Board materials.

Agenda Item No. 10 – Approval of a Detailed Assessment and Negotiations with McB Pinehatchee, LP, for a Potential Property Exchange for RO Ranch Surplused Tracts in Lafayette County. Steve Schroeder, Administration Chief, presented this item to the Board.

MOTION WAS MADE BY QUINCEY, SECONDED BY SANCHEZ TO APPROVE THE RECOMMENDATION. MOTION CARRIED UNANIMOUSLY.

Agenda Item No. 11 – Approval to Proceed with Negotiations with Jean Turner Drufer for the Purchase of a 10 acre +/- Parcel of Real Property Located in Hamilton County. Approved on Consent.

Agenda Item No. 12 – Approval to Declare as Surplus Two Adjoining Parcels Totaling 10.56 Acres +/- of Real Property Located in Gilchrist County. Approved on Consent.

Agenda Item No. 13 – Approval of Agreement with North Florida Land Trust. Approved on Consent.

### **Finance**

Agenda Item No. 14 – Approval of September 2019 Financial Report. Approved on Consent.

Agenda Item No. 15 – Approval of Fiscal Year 2018-2019 Budget Modifications. Christina Green, Senior Budget & Fiscal Analyst, presented this item to the Board.

MOTION WAS MADE BY SANCHEZ, SECONDED BY JONES TO APPROVE THE RECOMMENDATION. MOTION CARRIED UNANIMOUSLY.

### **Resource Management**

Agenda Item No. 16 – Permitting Summary Report. This report was provided as an informational item in the Board materials.

Agenda Item No. 17 – Approval of Variance Request for Environmental Resource Permit Application Number ERP-007-233697-2, SW 101<sup>st</sup> Avenue, Bradford County. Leroy Marshall, Senior Professional Engineer, presented this item to the Board.

MOTION WAS MADE BY SCHWAB, SECONDED BY SANCHEZ TO APPROVE THE RECOMMENDATION. MOTION CARRIED UNANIMOUSLY.

Agenda Item No. 18 – Amendment to Contract 15/16-066 with Atkins North America, Inc. for FEMA Fiscal Year 2018 Risk MAP Project Management Consultant Services. Mr. Marshall presented this item to the Board.

MOTION WAS MADE BY SANCHEZ, SECONDED BY JONES TO APPROVE THE RECOMMENDATION. MOTION CARRIED UNANIMOUSLY.

Agriculture and Environmental Projects

Agenda Item No. 19 – Authorization to Enter into Agreements with the Florida Department of Environmental Protection to Receive Alternative Water Supply Grant Funds and to Enter into Local Cooperative Agreements. Approved on Consent.

Agenda Item No. 20 – Approval to Enter into Contract with Black Gold Farms, Inc. to Provide Water Conservation Cost-Share Funding. Matt Cantrell, Project Manager, presented this item to the Board.

MOTION WAS MADE BY SANCHEZ, SECONDED BY SCHWAB TO APPROVE THE RECOMMENDATION. MOTION CARRIED UNANIMOUSLY.

**WATER AND LAND RESOURCES**

Land Management Program

Agenda Item No. 21 - Land Management & Twin River State Forest (TRSF) Activity Summary. This summary was provided as an informational item in the Board materials.

Agenda Item No. 22 - Authorization to Execute a Contract for the Sale of Timber with Suwannee Timber Management LLC for the Ellaville #18 Timber Sale. Approved on Consent.

Agenda Item No. 23 – Authorization to Execute a Contract for the Sale of Timber with Boland Timber Company for the Natural Well Branch #1 Timber Sale. Approved on Consent.

Agenda Item No. 24 – Approval of the Amended and Restated Carter Camp Addition Tract Lease Agreement with the Florida Department of Environmental Protection. Approved on Consent.

Water Resources Program

Agenda Item No. 25 – Agricultural Monitoring Report. This report was provided as an informational item in the Board materials.

Agenda Item No. 26 – Authorization to Execute a Contract with Packaging Corporation of America for Streamgaging Services. Tom Mirti, Deputy Executive Director, presented this item to the Board.

MOTION WAS MADE BY JONES, SECONDED BY SCHWAB TO APPROVE THE RECOMMENDATION. MOTION CARRIED UNANIMOUSLY.

Water Supply / MFL Programs

Agenda Item No. 27 – River Debris Project Update. Mr. Mirti provided a powerpoint presentation update to the Board.

Merrilee M. Jipson provided comments to the Board.

Agenda Item No. 28 – MFL Update. John Good, Senior Professional Engineer, provided an update to the Board.

**EXECUTIVE OFFICE**

Agenda Item No. 29 - District's Weekly Activity Reports. These reports were provided as an informational item in the Board materials.

Agenda Item No. 30 - Announcements. Mr. Thomas updated the Board on District activities.

Agenda Item No. 31 - Adjournment. Meeting adjourned at 10:29 a.m.

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Chair

ATTEST:

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SUWANNEE RIVER WATER MANAGEMENT DISTRICT  
GOVERNING BOARD WORKSHOP

November 12, 2019  
Following Board Meeting

District Headquarters

Workshop began at 10:53 a.m.

District Facilities Update

Mr. Schroeder provided a powerpoint presentation on the status of the District facilities; including a discussion of projects completed in Fiscal Year 2018-2019 and projects currently in progress. He also provided an overview of future project including an energy savings plan, exterior renovations and air conditioning systems updating.

Ethics and Sunshine Law Discussion

Mr. Reeves provided an update to the Board on the Ethics and Sunshine Law requirements Governor DeSantis implemented with Executive Order 2019-11 regarding Ethics and Open Government.

Workshop adjourned at 12:05 p.m.

MEMORANDUM

TO: Governing Board

FROM: Stephen Schroeder, Chief, Office of Administration

THRU: Steve Minnis, Deputy Executive Director, Business and Community Services

DATE: November 29, 2019

RE: Land Acquisition and Disposition Activity Report

**Property Offers**

Tract	Acres	County	Submittal Date	Asking Price	Acquisition Type	Comments
James Moses/Blue Sink	10	Hamilton and Suwannee	3.26.2018	Exchange	Fee/Easement	All documents and assessments complete. Final closing documents received 11.19.2019.
Gilchrist Lyme	17,854	Gilchrist	3.12.2019	Exchange acreage dependent on configuration/ Sandlin Bay 2,023 acre (USFS)	Easement	Tabled by Lands Committee June 2019. Subsequently reconsidered. Offeror has contract for sale of property. On hold.
Long Pond	964	Levy	9.18.2018	\$2,200,000	Fee	Board approved to be included on springs project list April 2019. Resubmitted to FDEP for additional springs funding consideration.
O'Toole	3	Columbia	3.15.2019	Donation	Fee	Offer withdrawn.
Quail Heights	41	Columbia	7.8.2019	\$2,000,000	Fee	Staff review on 8.8.19 recommends purchase in partnership with FDOT. On hold pending conceptual project plans are developed with additional partners.
Loncala/High Springs Wellfield	TBD	Hamilton	7.19.2019	Trade for acreage of equal or greater value.	Fee	Received favorable consideration by staff from both cities of Alachua and High Springs. Loncala to obtain consideration by Alachua and High Springs councils.

Tract	Acres	County	Submittal Date	Asking Price	Acquisition Type	Comments
Alapaha Point (Willingham)	11	Hamilton	8.16.2019	\$40,000	Fee	Offer withdrawn.
Alapaha Point (Hickman)	40	Hamilton	8.21.2019	\$159,200	Fee	Staff recommendation of approval going to December 2019 Lands Committee
Columbia County Grasslands (ACT) a/k/a Wilson Trust	512	Columbia	8.7.2019	TBD	Conservation Easement	Staff recommendation of approval going to December 2019 Lands Committee
Santa Fe Springs (ACT) a/k/a Zow, Graham Springs	282	Columbia	8.7.2019	\$139,041	Fee	Staff recommendation of approval going to December 2019 Lands Committee
Log Landing (Martin)	4	Dixie	9.18.2019	\$450,000	Fee	Staff recommendation to decline offer going to December 2019 Lands Committee.
Madison Avenue (2017), LLC	2,015	Levy	10.17.2019	TBD based on appraisal	Conservation Easement	Staff recommendation to decline offer going to December 2019 Lands Committee.

### Easement Requests

Name	Type	County	Tract	Comments
Berneice Knight	Access	Levy	Manatee South	Closed. Documents received and signed. Awaiting final recording. Closing completed 10.8.19.
Carter Estate Conservation Easement	Amendment to existing CE	Columbia		Pending Receipt of survey and appraisal for the proposed road.

### Approved for Detailed Assessment

Owner	Project Name	Acres	County	Comments
McB-Pinehatchee	Steinhatchee North RO Ranch West Equestrian	2,950/1,277	Lafayette	Approved at November 2019 Governing Board.
Drufner	Withlacoochee Hills	10	Hamilton	Approved at November 2019 Governing Board.
Michael and Freda Shaw	Shaw Conservation Easement Exchange	1,099	Lafayette	Negotiations ongoing.
Jerry Coker, Et al.	Lumber Camp Springs	37	Gilchrist	Offer withdrawn 11.20.2019.
Tim Walker, Et al.	Tim Walker Conservation Easement	90	Lafayette	Appraisal required.

### Proposed for Surplus

Tract	Acres	County	Acquired Date	Funding Source	Appraisal Date	Price	Comments
Mud Swamp (Stuebe)	25	Suwannee	12.13.2004	Florida Forever	TBD	To be determined by appraisal.	Offer to purchase 25 acres of upland land for timber operations. Staff recommends to decline the offer as not being of benefit to the District. Selling would limit access to remaining portion of the property. Staff recommendation relayed to offeror. Awaiting withdrawal or revised proposal.
Ft. White Wellfield	101	Columbia	12.21.2007	Florida Forever	TBD	TBD	Staff recommendation to surplus and negotiate conveyance to Town of Ft. White. Scheduled for December 2019 Lands Committee.

#### Authorized for Surplus

Tract	Acres	County	Acquired Date	Funding Source	Appraisal Date	Price	Comments
Turtle Spring Surplus Tract	32	Lafayette	5.13.2015	Florida Forever	5.24.2015	To be determined by appraisal update.	Suspended pending further review.
Bay Creek	55	Columbia	2.1.1988	Save Our Rivers	N/A	To be determined by appraisal.	Suspended pending further review. Staff review scheduled for 8.8.2019. Staff recommended removing from surplus process 8/8/19. Awaiting further review by staff.

<b>Tract</b>	<b>Acres</b>	<b>County</b>	<b>Acquired Date</b>	<b>Funding Source</b>	<b>Appraisal Date</b>	<b>Price</b>	<b>Comments</b>
Three Rivers Estates	1	Columbia	12.30.1997	Save Our Rivers	TBD	To be determined by appraisal.	Board approved surplus recommendation August 2019. To be offered to adjacent property owners.
Branford Bend	50	Suwannee	6.30.2004	Florida Forever	N/A	To be determined by appraisal.	Suspended pending further review. Staff review scheduled for 8.8.19. Staff recommends continuing surplus process to explore potential land exchanges adjacent to tract. Appraisal update required.
Country Club Road	80	Columbia	7.2015	Enforcement Action	TBD	To be determined by appraisal.	Title Commitment and survey completed. Governing Board reaffirmed surplus July 2019.
Santa Fe Oasis (Weaver)	1	Gilchrist	4.28.1998	Save Our Rivers	TBD	To be determined by appraisal.	Board approved surplus recommendation October 2019. To be offered to adjacent property owners.
Forest Woodlands (Padgett)	11	Gilchrist	10.11.1996	Save Our Rivers	TBD	To be determined by appraisal	Board approved surplus recommendation November 2019. To be offered to adjacent property owners.

SS/tm

MEMORANDUM

TO: Governing Board  
FROM: Stephen Schroeder, Chief, Office of Administration  
THRU: Steve Minnis, Deputy Executive Director, Business and Community Services  
DATE: November 29, 2019  
RE: Authorization to Enter into Contract with Gray Construction Services, Inc. for Restroom Renovations

RECOMMENDATION

**District staff recommends the Governing Board authorize the Executive Director to enter into a design build contract with Gray Construction Services, Inc. for restroom renovations at an estimated cost of \$177,600 and authorize the Executive Director to approve change orders which, in the aggregate, do not exceed \$30,000.**

BACKGROUND

In September 2019, the District conducted a Request for Proposals (RFP No.18/19-041 BCS) for renovation of the restrooms in the lobby of the District to include compliance with the Americans with Disability Act. The RFP was advertised and published on the District Website, local publications and the Florida Administrative Registry. The District received and opened one bid as follows:

Company	City
Gray Construction Services, Inc	Trenton, FL

The Proposer submitted two alternatives for the completion of the required renovation. After review by District staff, an alternative was selected which provides to the District the best value and quality. Staff recommends the Governing Board authorize the Executive Director to enter into a contract with Gray Construction Services, Inc. in accordance with the recommended proposal at an estimated cost of \$177,600. Staff is requesting that the Executive Director be authorized to execute change orders which affect the price and which, in the aggregate do not exceed \$30,000. Change orders under the contract will be for good cause and only authorized for reasons not reasonably observable in pre-proposal inspections and not attributable to the contractor.

Funding for this recommendation is included in the Fiscal Year 2019- 2020 budget under account code 13-5922-3-3300.

SCS/tm

MEMORANDUM

TO: Governing Board

FROM: Pam Shaw, Chief, Office of Finance

THRU: Steve Minnis, Deputy Executive Director, Business and Community Services

DATE: November 29, 2019

RE: Approval of October 2019 Financial Report

RECOMMENDATION

**Staff recommends the Governing Board approve the October 2019 Financial Report and confirm the expenditures of the District.**

BACKGROUND

Section 373.553(1), Florida Statutes, authorizes the delegation of authority by the Governing Board to the Executive Director to disburse District funds, providing certification is made to the Board at the next regular meeting that such disbursement is proper, in order, and within budgetary limits. In compliance with the statutory provisions in Chapter 373, the Governing Board of the Suwannee River Water Management District has directed staff to prepare a Financial Report as attached.

PS/tm  
Attachments

**Suwannee River Water Management District  
Cash Report  
October 2019**

<b>Financial Institution/Account</b>	<b>Monthly Interest</b>	<b>Interest Rate %</b>	<b>Closing Balance</b>
First Federal Permit Fee	\$0.00		\$11,205.00
First Federal Accounts Payable	\$0.00		\$35,000.00
First Federal EFT Disbursements	\$0.00		\$42,975.73
First Federal Depository	\$72.92	0.01%	\$838,897.25
Special Purpose Investment Account (SPIA)*	<u>\$106,640.30</u>	3.18%	<u>\$40,831,720.46</u>
TOTAL	<u><u>\$106,713.22</u></u>		<u><u>\$41,759,798.44</u></u>

\*SPIA is part of the Florida Treasury Investment Pool

**Suwannee River Water Management District  
Statement of Sources and Uses of Funds  
For the Month ending October 31, 2019  
(Unaudited)**

	<b>Current Budget</b>	<b>Actuals Through 10/31/2019</b>	<b>Variance (Under)/Over Budget</b>	<b>Actuals As A % of Budget</b>
<b>Sources</b>				
Ad Valorem Property Taxes	\$ 5,848,822	\$ 13,693	\$ (5,835,129)	0.2%
Intergovernmental Revenues	\$ 49,303,103	\$ 3,531,297	\$ (45,771,806)	7.2%
Interest on Invested Funds	\$ 130,000	\$ 105,951	\$ (24,049)	81.5%
License and Permit Fees	\$ 163,000	\$ 14,090	\$ (148,910)	8.6%
Other	\$ 1,000,000	\$ 68,003	\$ (931,997)	6.8%
Fund Balance <sup>1</sup>	\$ 9,116,055	\$ 24,062	\$ (9,091,993)	0.3%
<b>Total Sources</b>	<b>\$ 65,560,980</b>	<b>\$ 3,757,095</b>	<b>\$ (61,803,885)</b>	<b>5.7%</b>

	<b>Current Budget</b>	<b>Expenditures</b>	<b>Encumbrances <sup>2</sup></b>	<b>Available Budget</b>	<b>%Expended</b>	<b>%Obligated <sup>3</sup></b>
<b>Uses</b>						
Water Resources Planning and Monitoring	\$ 9,607,414	\$ 121,439	\$ 2,217,406	\$ 7,268,569	1%	24%
Acquisition, Restoration and Public Works	\$ 47,402,057	\$ 581,169	\$ 20,805,646	\$ 26,015,242	1%	45%
Operation and Maintenance of Lands and Works	\$ 5,132,262	\$ 146,978	\$ 2,254,076	\$ 2,731,208	3%	47%
Regulation	\$ 1,500,457	\$ 66,329	\$ 59,768	\$ 1,374,359	4%	8%
Outreach	\$ 231,018	\$ 18,529	\$ -	\$ 212,489	8%	8%
Management and Administration	\$ 1,687,772	\$ 93,324	\$ 50,910	\$ 1,543,538	6%	9%
<b>Total Uses</b>	<b>\$ 65,560,980</b>	<b>\$ 1,027,768</b>	<b>\$ 25,387,806</b>	<b>\$ 39,145,406</b>	<b>2%</b>	<b>40%</b>

<sup>1</sup> Actual Fund Balance used is recorded at the end of the fiscal year. This amount represents Fund Balance used for the Monitor Well Improvement Program and the AG and RIVER Cost-Share Programs

<sup>2</sup> Encumbrances represent unexpended balances of open purchase orders and contracts.

<sup>3</sup> Represents the sum of expenditures and encumbrances as a percentage of the available budget.

This financial statement is prepared as of October 31, 2019 and covers the interim period since the most recent audited financial statements.

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**  
**STATEMENT OF ACTIVITY - REVENUE AND EXPENSE ROLLUP (UNAUDITED)**  
**FOR 10/31/2019**

	Y-T-D ACTUAL	ENCUMBRANCE	ANNUAL BUDGET
<b><u>FUND Report Recap -</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	201,736	0	7,141,822
LOCAL REVENUES	0	0	91,600
STATE REVENUES	3,531,297	0	45,019,003
FEDERAL REVENUES	0	0	4,192,500
FUND BALANCE UTILIZATION	24,062	0	9,116,055
<b>TOTAL REVENUES</b>	<b>3,757,095</b>	<b>0</b>	<b>65,560,980</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	325,994	0	6,499,032
CONTRACTUAL SERVICES	32,058	8,679,190	25,352,300
OPERATING EXPENDITURES	131,304	188,184	1,511,700
OPERATING CAPITAL OUTLAY	0	118,501	358,044
FIXED CAPITAL OUTLAY	3,559	9,912	4,047,000
INTERAGENCY EXPENDITURES	534,853	16,392,019	27,792,904
<b>TOTAL EXPENDITURES</b>	<b>1,027,768</b>	<b>25,387,806</b>	<b>65,560,980</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>2,729,327</b>	<b>(25,387,806)</b>	<b>0</b>
<b><u>FUND 01 - GENERAL FUND</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	110,093	0	5,038,023
LOCAL REVENUES	0	0	0
STATE REVENUES	1,369,993	0	2,740,000
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	769,184
<b>TOTAL REVENUES</b>	<b>1,480,086</b>	<b>0</b>	<b>8,547,207</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	261,540	0	5,160,643
CONTRACTUAL SERVICES	5,532	555,873	1,350,786
OPERATING EXPENDITURES	20,163	104,089	955,822
OPERATING CAPITAL OUTLAY	0	3,498	165,456
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	36,742	504,096	914,500
<b>TOTAL EXPENDITURES</b>	<b>323,977</b>	<b>1,167,556</b>	<b>8,547,207</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>1,156,109</b>	<b>(1,167,556)</b>	<b>0</b>
<b><u>FUND 03 - ALTERNATIVE WATER SUPPLY</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	5,100,000
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	0
<b>TOTAL REVENUES</b>	<b>0</b>	<b>0</b>	<b>5,100,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	0	1,100,000
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	4,000,000
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>5,100,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**  
**STATEMENT OF ACTIVITY - REVENUE AND EXPENSE ROLLUP (UNAUDITED)**  
**FOR 10/31/2019**

	Y-T-D ACTUAL	ENCUMBRANCE	ANNUAL BUDGET
<b><u>FUND 05 - MIDDLE SUWANNEE</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	0
<b>TOTAL REVENUES</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	50,760	0
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>50,760</b>	<b>0</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>(50,760)</b>	<b>0</b>
<b><u>FUND 06 - SPRINGS GRANTS</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	60,000
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	32,168,000
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	0
<b>TOTAL REVENUES</b>	<b>0</b>	<b>0</b>	<b>32,228,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	4,224,508	11,930,000
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	2,200,000
INTERAGENCY EXPENDITURES	498,111	13,968,878	18,098,000
<b>TOTAL EXPENDITURES</b>	<b>498,111</b>	<b>18,193,386</b>	<b>32,228,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>(498,111)</b>	<b>(18,193,386)</b>	<b>0</b>
		*	
		<i>* Expenditures to be covered by FDEP Grants</i>	
<b><u>FUND 07 - LOCAL REVENUE</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	91,600
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	0
<b>TOTAL REVENUES</b>	<b>0</b>	<b>0</b>	<b>91,600</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	0	0
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	87,000	91,600
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>87,000</b>	<b>91,600</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>(87,000)</b>	<b>0</b>

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**  
**STATEMENT OF ACTIVITY - REVENUE AND EXPENSE ROLLUP (UNAUDITED)**  
**FOR 10/31/2019**

	Y-T-D ACTUAL	ENCUMBRANCE	ANNUAL BUDGET
<b><u>FUND 08 - WMLTF - SPRINGS</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	429	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	150,000
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	0
<b>TOTAL REVENUES</b>	<b>429</b>	<b>0</b>	<b>150,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	0	0
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	150,000	150,000
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>150,000</b>	<b>150,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>429</b>	<b>(150,000)</b>	<b>0</b>
<b><u>FUND 09 - MONITOR WELL /PROJECT EFFECTIVENESS METRICS</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	50,000
<b>TOTAL REVENUES</b>	<b>0</b>	<b>0</b>	<b>50,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	0	50,000
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>50,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b><u>FUND 10 - LAND CONSERVATION - FLORIDA FOREVER &amp; P2000</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	95	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	25,000
<b>TOTAL REVENUES</b>	<b>95</b>	<b>0</b>	<b>25,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	41,946	25,000
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>41,946</b>	<b>25,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>95</b>	<b>(41,946)</b>	<b>0</b>

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**  
**STATEMENT OF ACTIVITY - REVENUE AND EXPENSE ROLLUP (UNAUDITED)**  
**FOR 10/31/2019**

	Y-T-D ACTUAL	ENCUMBRANCE	ANNUAL BUDGET
<b><u>FUND 12 - DOT ETDM</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	103	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	5,458
<b>TOTAL REVENUES</b>	<b>103</b>	<b>0</b>	<b>5,458</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	5,458
CONTRACTUAL SERVICES	0	0	0
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>5,458</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>103</b>	<b>0</b>	<b>0</b>
<b><u>FUND 13 - LAND MANAGEMENT &amp; OPERATIONS</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	68,002	0	2,043,799
LOCAL REVENUES	0	0	0
STATE REVENUES	2,130,119	0	2,311,119
FEDERAL REVENUES	0	0	40,000
FUND BALANCE UTILIZATION	0	0	1,044,344
<b>TOTAL REVENUES</b>	<b>2,198,121</b>	<b>0</b>	<b>5,439,262</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	33,270	0	667,047
CONTRACTUAL SERVICES	2,465	1,824,414	2,530,014
OPERATING EXPENDITURES	111,140	84,094	513,878
OPERATING CAPITAL OUTLAY	0	115,003	192,588
FIXED CAPITAL OUTLAY	3,559	9,912	877,000
INTERAGENCY EXPENDITURES	0	85,677	658,735
<b>TOTAL EXPENDITURES</b>	<b>150,434</b>	<b>2,119,100</b>	<b>5,439,262</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>2,047,687</b>	<b>(2,119,100)</b>	<b>0</b>
<b><u>FUND 19 - FDOT MITIGATION</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	1,140	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	100,000
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	111,000
<b>TOTAL REVENUES</b>	<b>1,140</b>	<b>0</b>	<b>211,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	252	211,000
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>252</b>	<b>211,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>1,140</b>	<b>(252)</b>	<b>0</b>

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**  
**STATEMENT OF ACTIVITY - REVENUE AND EXPENSE ROLLUP (UNAUDITED)**  
**FOR 10/31/2019**

	Y-T-D ACTUAL	ENCUMBRANCE	ANNUAL BUDGET
<b><u>FUND 20 - MINIMUM FLOWS AND MINIMUM WATER LEVELS</u></b>			
<b><u>(MFL)</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	31,185	0	1,949,884
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	0
<b>TOTAL REVENUES</b>	<b>31,185</b>	<b>0</b>	<b>1,949,884</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	31,185	0	665,884
CONTRACTUAL SERVICES	0	63,852	1,029,000
OPERATING EXPENDITURES	0	0	30,000
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	188,750	225,000
<b>TOTAL EXPENDITURES</b>	<b>31,185</b>	<b>252,602</b>	<b>1,949,884</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>(252,602)</b>	<b>0</b>
<b><u>FUND 29 - SUWANNEE RIVER PARTNERSHIP (SRP)</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	2,420	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	153,000
<b>TOTAL REVENUES</b>	<b>2,420</b>	<b>0</b>	<b>153,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	0	0
OPERATING EXPENDITURES	0	0	6,000
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	147,000	147,000
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>147,000</b>	<b>153,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>2,420</b>	<b>(147,000)</b>	<b>0</b>
<b><u>FUND 33 - PCS MITIGATION - LAND ACQUISITION</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	19,454	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	1,000,000
<b>TOTAL REVENUES</b>	<b>19,454</b>	<b>0</b>	<b>1,000,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	0	30,000
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	970,000
INTERAGENCY EXPENDITURES	0	0	0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>1,000,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>19,454</b>	<b>0</b>	<b>0</b>

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**  
**STATEMENT OF ACTIVITY - REVENUE AND EXPENSE ROLLUP (UNAUDITED)**  
**FOR 10/31/2019**

	Y-T-D ACTUAL	ENCUMBRANCE	ANNUAL BUDGET
<b><u>FUND 51 - DISTRICT AG COST-SHARE</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	24,062	0	2,020,000
<b>TOTAL REVENUES</b>	<b>24,062</b>	<b>0</b>	<b>2,020,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	24,062	964,636	2,000,000
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	20,000
<b>TOTAL EXPENDITURES</b>	<b>24,062</b>	<b>964,636</b>	<b>2,020,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>(964,636)</b>	<b>0</b>
<b><u>FUND 52 - WATER RESOURCE DEVELOPMENT</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	1,680,000
<b>TOTAL REVENUES</b>	<b>0</b>	<b>0</b>	<b>1,680,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	0	450,000
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	1,230,000
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>1,680,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b><u>FUND 53 - DISTRICT RIVER COST-SHARE</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	0
FUND BALANCE UTILIZATION	0	0	2,258,069
<b>TOTAL REVENUES</b>	<b>0</b>	<b>0</b>	<b>2,258,069</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	0	0
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	1,260,618	2,258,069
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>1,260,618</b>	<b>2,258,069</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>(1,260,618)</b>	<b>0</b>

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT**  
**STATEMENT OF ACTIVITY - REVENUE AND EXPENSE ROLLUP (UNAUDITED)**  
**FOR 10/31/2019**

	Y-T-D ACTUAL	ENCUMBRANCE	ANNUAL BUDGET
<b><u>FUND 56 - FEMA</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	0
FEDERAL REVENUES	0	0	3,696,000
FUND BALANCE UTILIZATION	0	0	0
<b>TOTAL REVENUES</b>	<b>0</b>	<b>0</b>	<b>3,696,000</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	952,950	3,690,000
OPERATING EXPENDITURES	0	0	6,000
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>952,950</b>	<b>3,696,000</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>(952,950)</b>	<b>0</b>
<b><u>FUND 60 - REIMBURSABLE GRANTS</u></b>			
<b>REVENUES</b>			
DISTRICT REVENUES	0	0	0
LOCAL REVENUES	0	0	0
STATE REVENUES	0	0	500,000
FEDERAL REVENUES	0	0	456,500
FUND BALANCE UTILIZATION	0	0	0
<b>TOTAL REVENUES</b>	<b>0</b>	<b>0</b>	<b>956,500</b>
<b>EXPENDITURES</b>			
SALARIES AND BENEFITS	0	0	0
CONTRACTUAL SERVICES	0	0	956,500
OPERATING EXPENDITURES	0	0	0
OPERATING CAPITAL OUTLAY	0	0	0
FIXED CAPITAL OUTLAY	0	0	0
INTERAGENCY EXPENDITURES	0	0	0
<b>TOTAL EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>956,500</b>
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES</b>	<b>0</b>	<b>0</b>	<b>0</b>

## MEMORANDUM

TO: Governing Board

FROM: Pam Shaw, Chief, Office of Finance

THRU: Steve Minnis, Deputy Executive Director, Business and Community Services

DATE: November 29, 2019

RE: Approval of Consolidated Special Revenue Fund Structure for Fiscal Year 2020-2021 Budget and Financial Reporting

### RECOMMENDATION

**Staff recommends the Governing Board approve combining select individual Special Revenue Funds into Consolidated District, State, and Federal Special Revenue Funds for Budget and Financial Reporting.**

### BACKGROUND

The Government Finance Officers Association (GFOA) best practice guidance on fund accounting application recommends a government's periodic review of its fund structure. It states the review ought to specifically consider whether the goals of general purpose external financial reporting could better be achieved by combining similar accounting funds into a single fund for financial reporting purposes. The number of funds established within an accounting system to collect and maintain data should be driven by the needs of management. The number of funds reported in external financial reports, on the other hand, should be based on the needs of financial statement users, who typically need and desire less detailed data. Accordingly, separate funds within an accounting system often can and should be combined to form a single fund for purposes of general purpose external financial reporting.

In accordance with Governmental Accounting Standards Board (GASB) Statement No. 54, special revenue funds are used to account for the proceeds of specific revenue sources that are restricted or committed to be expended for specific purposes other than capital projects and debt service. The creation and use of special revenue funds is optional unless there is a legal requirement of the government that a special revenue fund be created. Generally accepted accounting principles for governments prescribe that a minimum number of funds be used.

The District staff has reviewed the fund structure and recommends combining select special revenue funds by revenue source for budgeting and financial reporting purposes. If approved by the Governing Board, the funds will be combined and consolidated into three special revenues funds identified as District, State, and Federal beginning October 1, 2020 for Fiscal Year 2020-2021. The Land Management and Acquisition special revenue fund will continue to be reported separately to maintain reporting continuity. Detailed accounting records will continue to be maintained in the District's accounting system.

PS/tm

MEMORANDUM

TO: Governing Board

FROM: Christina Green, Senior Budget and Fiscal Analyst, Office of Finance

THRU: Steve Minnis, Deputy Executive Director, Business and Community Services

DATE: November 29, 2019

RE: Approval of Resolution No. 2019-09 for Release of Funds from the Water Protection and Sustainability Program Trust Fund

RECOMMENDATION

**Staff recommends the Governing Board approve Resolution No. 2019-09, authorizing the Executive Director to make a request to the Florida Department of Environmental Protection to encumber and release \$100,000 from the Water Protection and Sustainability Trust Fund**

BACKGROUND

Governor DeSantis and the Florida Legislature included funding for alternative water supplies for the Water Management Districts in Chapter 2019-115, Laws of Florida, Fiscal Year 2019-2020 (FY 2020) General Appropriations Act.

A total of \$1,000,000 line item 1642 was appropriated from the Water Protection and Sustainability Program Trust Fund of which, ten percent or \$100,000 is allocated to the District pursuant to subsection 373.707(8)(b), Florida Statutes.

The funding can be used for the development of alternative water supplies and conservation projects. These funds are administered by the Florida Department of Environmental Protection (FDEP) and be made available for use by the District. Approval of the recommendation will enable staff to receive funds for FY 2020 to implement alternative water supply and water conservation projects.. Disbursement of these funds will be made based on a payment schedule agreed upon between the District and the FDEP.

CG/tm  
Attachment

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT  
RESOLUTION NUMBER 2019-09**

**REQUEST TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR THE RELEASE OF  
STATE APPROPRIATIONS  
FISCAL YEAR 2019-2020**

**WHEREAS**, the District requested funds for the development of alternative water supplies and conservation projects; and

**WHEREAS**, Chapter 2019-115, Laws of Florida, Specific Appropriation 1642, Governor DeSantis approved the Florida Legislature appropriation of one million dollars, of which, ten percent or one hundred thousand dollars (\$100,000) is allocated to the Suwannee River Water Management District from the Water Protection and Sustainability Program Trust Fund; and

**WHEREAS**, the State provides revenue for funding assistance from the Water Protection and Sustainability Program Trust Fund for the development of alternative water supplies and conservation projects, and

**WHEREAS**, subsection 373.707(8)(b), Florida Statutes, stipulates a funding formula for disbursing the funds to the water management districts;

**WHEREAS**, subsection 373.707(8)(b)4., Florida Statutes, provides for the Suwannee River Water Management District to receive ten percent from the Water Protection and Sustainability Program Trust Fund and;

**WHEREAS**, the Suwannee River Water Management District may request, and the Department of Environmental Protection has established a process to release revenue deposited in the Water Protection and Sustainability Trust Fund.

**NOW THEREFORE**, be it resolved that the Governing Board of the Suwannee River Water Management District hereby requests the Secretary of the Florida Department of Environmental Protection to release, in accordance with a payment schedule to be agreed upon between the District and the Department, those funds designated pursuant to Chapter 2019-115, Laws of Florida, as listed below:

Line Item 1642	\$1,000,000 from the Water Protection and Sustainability Program Trust Fund of which, ten percent or \$100,000 is allocated to the District pursuant to subsection 373.707(8)(b)(4), Florida Statutes.
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**BE IT FURTHER RESOLVED** that these funds shall be subject to the requirements of section 215.97, Florida Statutes, the Florida Single Audit Act.

**BE IT FURTHER RESOLVED** that these funds shall be subject to the requirements of section 216.347, Florida Statutes (Grant and Aids Lobbying Restriction); and

**BE IT FURTHER RESOLVED** that this resolution be transmitted to the Secretary of the Department; and

**BE IT FURTHER RESOLVED** that the Chair of the Governing Board is authorized to affix their signature to this resolution on behalf of the Board and attested by its Secretary.

**PASSED AND ADOPTED THIS 10th DAY of December, 2019.**

**SUWANNEE RIVER WATER MANAGEMENT DISTRICT  
BY ITS GOVERNING BOARD**

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**MEMBERS OF THE BOARD:**

**VIRGINIA H. JOHNS, CHAIR  
DON QUINCEY, VICE CHAIR  
RICHARD SCHWAB, SECRETARY/TREASURER  
GARY JONES  
VIRGINIA SANCHEZ**

**ATTEST :**

MEMORANDUM

TO: Governing Board

FROM: Christina Green, Senior Budget and Fiscal Analyst, Office of Finance

THRU: Steve Minnis, Deputy Executive Director, Business and Community Services

DATE: November 29, 2019

RE: Approval of Fiscal Year 2020-2021 Preliminary Budget Submission

RECOMMENDATION

**Staff recommends the Governing Board approve the Preliminary Budget for Fiscal Year 2020-2021 of \$59,775,591 and authorize the Executive Director to make recommended adjustments as necessary to submit the Standard Format Preliminary Budget to the Governor's Office and Legislature by January 15, 2020.**

BACKGROUND

Section 373.535, Florida Statutes, requires the water management districts to submit a standard format preliminary budget for the next fiscal year for legislative review by January 15th of each year. The preliminary budget must be submitted to the President of the Senate, the Speaker of the House of Representatives, and the chair of committees and subcommittees with substantive or fiscal jurisdiction over the water management districts.

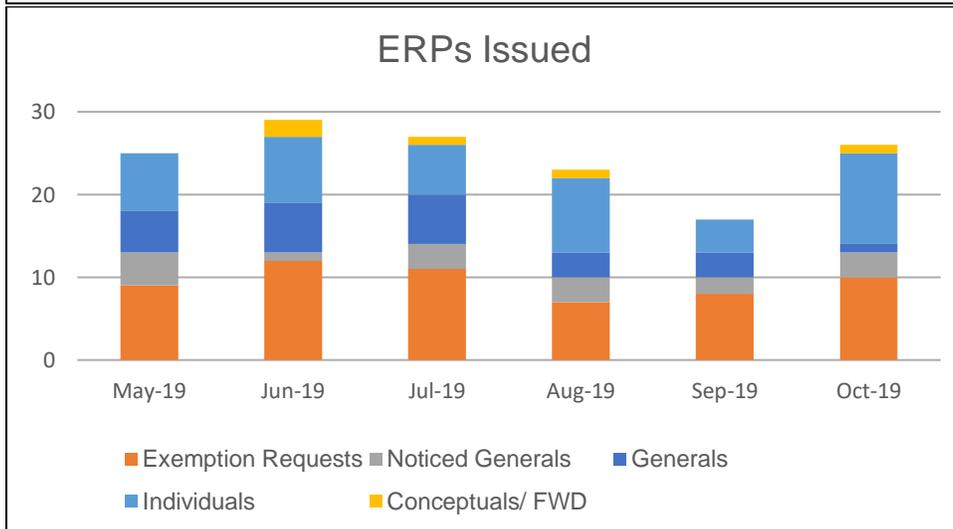
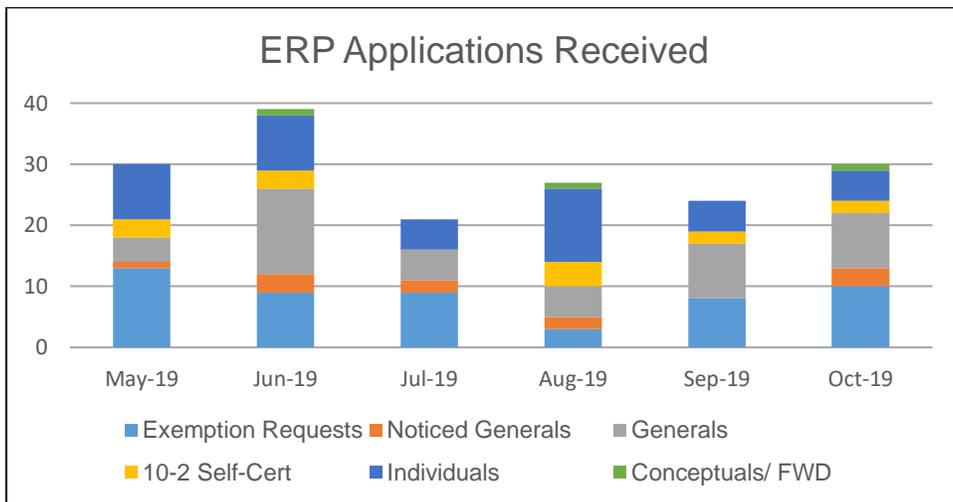
The preliminary budget submitted for review is balanced by fund, properly utilizes restricted funds, and provides for expenditures as designated and as defined by the Governmental Accounting Standards Board (GASB) Statement No. 54.

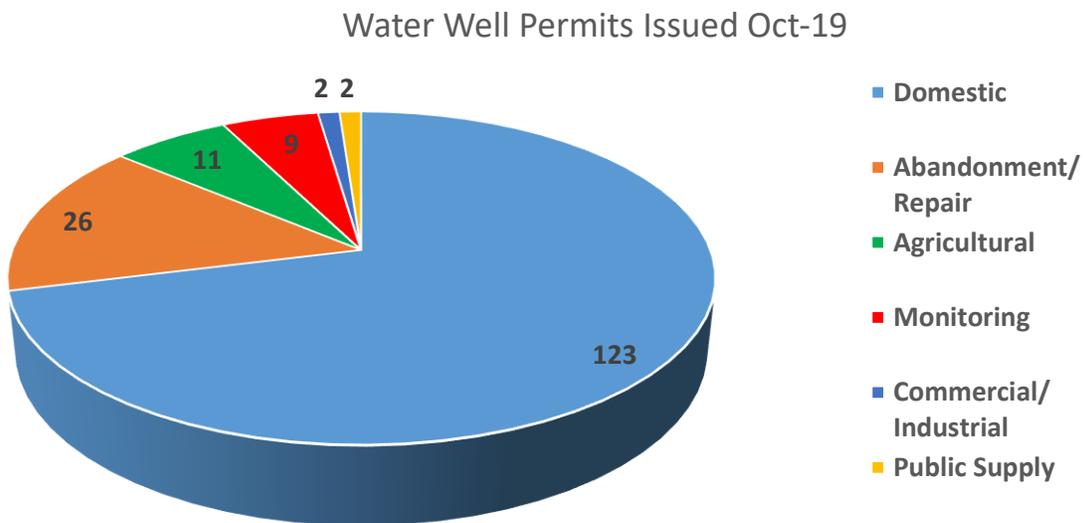
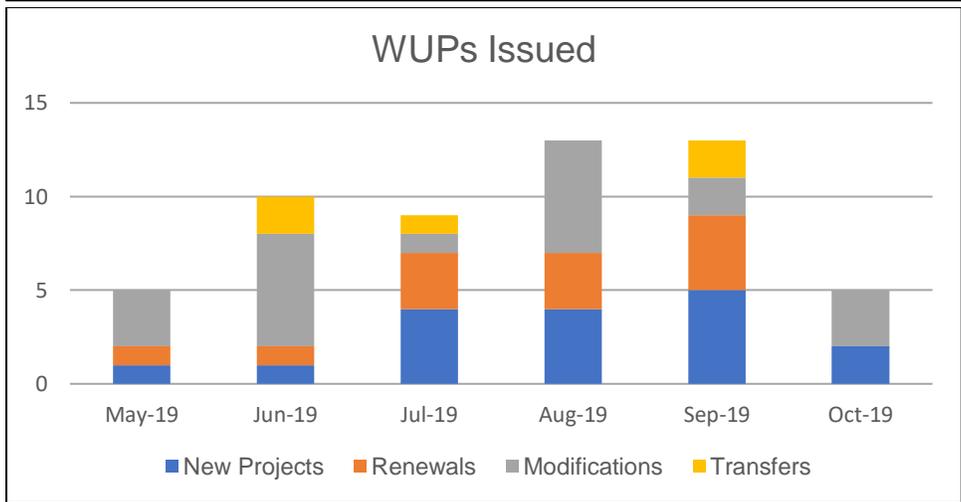
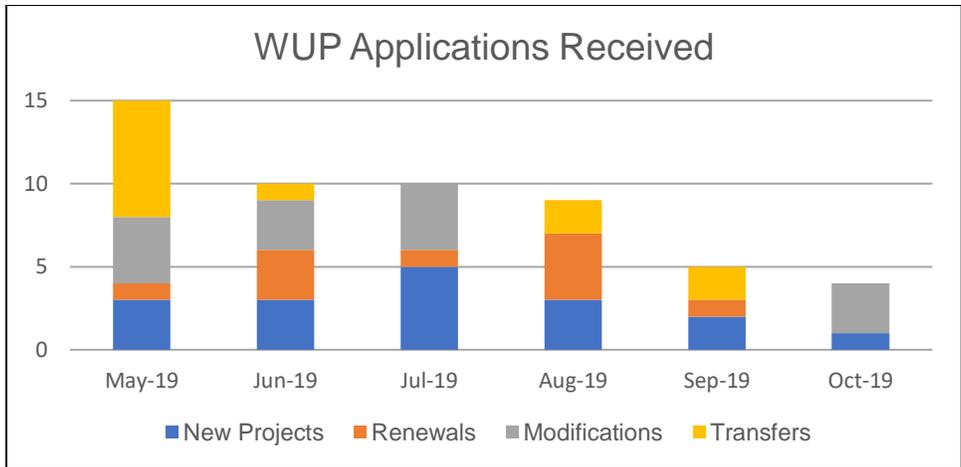
The preliminary budget assumes the current millage rate of 0.3840, which was adopted as the rolled-back rate for Fiscal Year 2019-2020. The preliminary budget continues the commitment to utilize the District's fund balances.

CG/tm

MEMORANDUM

TO: Governing Board  
 FROM: Warren Zwanka, P.G., Director, Division of Resource Management  
 THRU: Steve Minnis, Deputy Executive Director, Business and Community Services  
 DATE: November 29, 2019  
 RE: Permitting Summary Report





**40B-2.301 (Amendments)****Western Water Supply Planning Area**

GB Authorized Rulemaking	7/9/2019
Notice of Rule Development	7/18/2019
Public Workshop	
Notice of Proposed Rule	9/30/2019
Notice of Rule Change	
Mail to DOS	11/12/2019
<b>Effective Date</b>	<b>12/4/2019</b>

**40B-1.722 (New Rule)****Electronic Fund Transfer**

GB Authorized Rulemaking	10/10/2019
Notice of Rule Development	
Public Workshop	
Notice of Proposed Rule	
Notice of Rule Change	
Mail to DOS	
<b>Effective Date</b>	

**Compliance Agreements:**

Item No. 133195: David Grinnell – 0.41 acres of wetland fill

## MEMORANDUM

TO: Governing Board

FROM: Warren Zwanka, Division Director, Resource Management

THRU: Steve Minnis, Deputy Executive Director, Business and Community Services

DATE: November 29, 2019

RE: Approval of the 2019 FEMA Risk MAP Program Five-Year Business Plan

### RECOMMENDATION

**Staff recommends the Governing Board accept the District's 2019 Federal Emergency Management Agency Risk MAP Program Five-Year Business Plan and authorize staff to submit the plan.**

### BACKGROUND

The Suwannee River Water Management District (District) has been a Cooperating Technical Partner (CTP) implementing Federal Emergency Management Agency (FEMA's) Map Modernization and Risk MAP programs for almost 20 years. Previous business plan updates to FEMA were for a three-year period. This year, FEMA revised the requirement of the report such that the plan is a five-year outlook.

The business plan is the guidance the District uses to plan and prioritize work within the District each year. The District has worked with Atkins to produce this year's update, which will provide projected work for five years and provide a more detailed description of work for the present and next year.

The District's vision for the next five years is to address data gaps in the flood hazard data, improve flood risk delineation where new LiDAR is available, increase public awareness, lead engagement in mitigation planning, provide an enhanced digital platform for risk information and align risk analysis programs while improving the quality of Risk MAP products. The District plans to complete "discovery" and any resulting studies in all eight of the District's watersheds throughout the next five years.

LM/tm

# **Suwannee River Water Management District**



## **FEMA Risk MAP Program Multi-year Mapping Plan Update**

**FY20-FY24**

**Last Revised Nov 15, 2019**

**Prepared by SRWMD with support from**

**ATKINS**

Member of the SNC-Lavalin Group

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## Executive Summary

The Federal Emergency Management Agency's (FEMA) flood hazard maps are one of the essential tools for flood mitigation in the United States. Unfortunately, many of these maps have become outdated, especially in high growth and development areas including Florida. FEMA has established a broad goal of modernizing flood hazard maps nationwide. In addition, FEMA has engaged in providing communities with flood information and tools they can use to enhance their mitigation plans and take action to better protect their citizens through the Risk Mapping, Assessment, and Planning (Risk MAP) program.

As part of a Cooperating Technical Partner (CTP) Agreement with FEMA, the Suwannee River Water Management District (SRWMD) has accepted delegation and responsibility for the Risk MAP program for areas it governs within North Florida. There are fifteen counties, including Bradford, Columbia, Dixie, Gilchrist, Hamilton, Jefferson, Lafayette, Levy, Madison, Suwannee, Taylor, Alachua, Union, Baker and Putnam, that are partially or completely within the District's boundaries. Prior to accepting the delegation for the Risk MAP program, SRWMD had accepted delegation and responsibility for the Map Modernization program for all of the area it governs.

As part of the Risk MAP program, FEMA requested that all partners participating, including the SRWMD, update the Multi-year Mapping Plan (formerly Business Plan), detailing their approach to implementing the initiative and how the activities will contribute to FEMA's Risk MAP goals and objectives. This FY20-FY24 Plan update provides SRWMD program highlights and funding requests for FY20 and beyond.

The SRWMD vision for the Map Modernization initiative was to develop a District-wide program that provides more accurate and complete flood hazard information for counties and communities within the District. At the end of the Map Modernization process, counties within the SRWMD had updated Digital Flood Insurance Rate Maps (DFIRMs) that incorporated selected new detailed studies, approximate studies and/or updated base mapping converted to digital format. During RiskMAP the District has been coordinating between FEMA and the communities to identify areas of greatest concern for updates to the models and flood risk maps. As of FY18 all the watersheds of the District have received this initial pass to identify areas of greatest concern and have received funding to address them. These studies have been completed or are underway. Beginning in FY18 the District is continuing the RiskMAP goal of a cyclic approach, where watersheds are revisited after the initial round of map updates, in order to address new areas of concern, changes in the watershed, or review and update older models that were not addressed in the first round identification of areas of greatest concern. With the digital FIRMs and the District's ongoing emphasis on protection and acquisition of flood prone areas, the flood protection goals and the non-structural floodplain management strategy of the SRWMD are being achieved.

The SRWMD vision for the Risk MAP initiative has been to address data gaps in flood hazard data, improve flood risk delineation where new LiDAR is available, increase public awareness, lead engagement in mitigation planning, provide an enhanced digital platform for risk information, and align risk analysis programs while improving the quality of Risk MAP products. By conducting Discovery in each of the District watersheds on a six-to-seven-year cycle, and performing the resulting studies, resiliency outreach, panel revisions, and distribution of improved

data; SRWMD will both serve its mission and help FEMA meet its RiskMAP objectives. SRWMD plans to revisit Discovery in each watershed on a cyclic basis, with priorities determined by monitoring growth and the needs in the watersheds during the ongoing outreach that is part of SRWMD's mission.

Under the previous Map Modernization initiative, the SRWMD completed managing FY04 MAS projects (Dixie, Gilchrist and Lafayette Counties), FY05 MAS projects (Suwannee and Columbia Counties), FY06 MAS projects (Taylor and Union Counties), and FY07 MAS projects (Hamilton, Levy and Madison Counties) and the FY08 MAS project (Bradford County).

Under RiskMAP the SRWMD has completed the following CTP projects: FY09 MAS projects (Dixie, Gilchrist and Lafayette Counties) in transition to RiskMAP, and the FY10 MAS Risk MAP project (Lower Suwannee Watershed). The FY11 MAS Risk MAP projects (Santa Fe Watershed, Upper Suwannee Watershed); the FY12 MAS consisting of Discovery for the Waccasassa Watershed and riverine studies in the Econfina-Steinhatchee Watershed. Also funded under FY12 was integrating the Econfina-Steinhatchee riverine studies with Big Bend coastal modeling for a combined map release. The Big Bend coastal modeling was conducted by FEMA's Professional Services contractors, delivered to the District and incorporated into the Econfina-Steinhatchee effective map release.

The FY13 MAS includes selected RiskMAP studies in the Withlacoochee Watershed, as well as completion of Discovery in the adjacent Alapaha watershed. The Withlacoochee is a split study, with funding for panel revisions and post-preliminary processing approved under the FY14 and FY15 MAS. The Withlacoochee study has completed Preliminary map release and public review and will release new effective maps in 2020. The FY16 MAS covers the Aucilla and Alapaha studies, while the FY17-18 MASs cover a second round of studies in the Upper and Lower Suwannee to develop a continuous new flood model for the Suwannee River in Florida; and in the Santa Fe watershed to update existing unverified models and provide updated flood risk maps in growth areas. The newly funded FY19 MAS will provide funding for an updated study in the Econfina-Steinhatchee Watershed, as well as underwrite some additional effort identified to complete the combined Upper and Lower Suwannee studies. The status of these projects is shown in Figure 3-1 of Chapter 3.

The District will facilitate the implementation of FEMA's Risk MAP Program through direct management and support of all-regulatory, engineering, and mapping activities within the District's area. The SRWMD is committed to developing a fully integrated program that incorporates:

- Discovery
- engineering and mapping (watershed level updates)
- internal QA/QC
- community outreach
- outreach via websites and training
- mitigation planning support in collaboration with Florida Department of Emergency Management

The results of these efforts are an ongoing program that allows for delivery of quality data that increases public awareness and leads to action that reduces risk to life and property. This will continue to be accomplished primarily through the use of FEMA grants to hire qualified contractors retained and overseen by the District.

For its management plan to be effectively implemented, the District will need the full support and involvement of all user communities, including local governments. To ensure the full engagement of its partners, the District will commit significant resources to manage stakeholder expectations through up front coordination, outreach, and customer service. Based upon our preliminary assessment, we anticipate that our current IT system will require ongoing upgrades to maintain and deliver the product, and that the resources required to maintain the IT system either currently exist within the District or will be made available as needed during program development and implementation.

# Chapter 1

## INTRODUCTION

### 1.1 Background

This Cooperating Technical Partner (CTP) Business Plan describes SRWMD CTP planning through the end of FY24 (September 30, 2024).

The Federal Emergency Management Agency's (FEMA) flood hazard maps are one of the essential tools for flood mitigation in the United States. Unfortunately, many of these maps have become outdated, especially in high growth and development areas including Florida. FEMA has established a broad goal of modernizing flood hazard maps nationwide. In addition, FEMA has engaged in providing communities with flood information and tools they can use to enhance their mitigation plans and take action to better protect their citizens through the Risk Mapping, Assessment, and Planning (Risk MAP) program. To achieve this goal, FEMA has acknowledged that collaborative partnerships with state, regional and local/organizations will be necessary.

As part of a Cooperating Technical Partner (CTP) Agreement with FEMA the Suwannee River Water Management District (SRWMD) has accepted delegation and responsibility for the Risk MAP program for areas it governs within North Florida. There are fifteen counties, including Bradford, Columbia, Dixie, Gilchrist, Hamilton, Jefferson, Lafayette, Levy, Madison, Suwannee, Taylor, Alachua, Union, Baker and Putnam, that are partially or completely within the District's boundaries. Prior to accepting the delegation for the Risk MAP program, SRWMD had accepted delegation and responsibility for the Map Modernization program for all of the area it governs. At this time, the small portion of Putnam County within the SRWMD has not been included in the updates.

**The SRWMD transitioned from Map Modernization to the Risk Map initiative beginning with FY10 Mapping Activities. The SRWMD vision for the Risk MAP initiative is to address data gaps in flood hazard data, improve flood risk delineation as new LiDAR becomes available, increase public awareness, lead engagement in mitigation planning, provide an enhanced digital platform for risk information, and align risk analysis programs while improving the quality of Risk MAP products. The District plans to have completed Discovery and any resulting studies (not including post-preliminary mapping) in all 9 (nine) of the FEMA HUC-8 Watersheds within the District by the end of calendar year (CY) 19; the District is continuing the RiskMAP cycle by returning to watersheds that have already completed their first round of RiskMAP updates to identify any new community needs or data needs that have been revealed during subsequent mitigation actions, new growth, and/or flooding experience. Therefore, the Multi-year Project Plan for FY20 through FY24 is based on first addressing the central watersheds of the Suwannee and Santa Fe rivers, which were the first studies initiated under RiskMAP in FY10 and FY11; then continuing this cycle as indicated in FY20-FY24. As new patterns of growth emerge, it is possible that one watershed may be swapped with another in future plans; but all watersheds will be revisited in the second cycle, and a third cycle is anticipated, addressing flood**

**map updates based on mitigation actions recommended under cycle one, and implemented over the next five years.**

A brief history of the SRWMD Cooperating Technical Partnership with FEMA could begin with completion of FY04 Mapping Activities Statement (MAS) projects (Dixie, Gilchrist and Lafayette Counties- total amount \$904,000- leverage amount \$180,800\*), FY05 MAS projects (Suwannee County – total amount \$560,000; Columbia Counties - total amount \$500,000- leverage amount \$212,000), FY06 MAS projects (Taylor and Union Counties – total amount \$1,000,000- leverage amount \$200,000), and FY07 MAS projects (Hamilton, Levy and Madison Counties – total amount \$1,025,000). The SRWMD also completed management of the FY08 MAS project (Bradford County - total amount \$300,000), and the FY09 MAS for updating panels in Suwannee County in the vicinity of Live Oak. These map updates and conversion of paper maps to digital were accomplished under the FEMA Map Modernization Program, which ended in FY09 with the transition to RiskMAP in FY10.

The District managed integration of 3 other FY09 Map Modernization projects in Dixie, Gilchrist and Lafayette Counties -- (total \$810,000 – leverage amount \$20,000) into the FY10 Risk MAP project for the Lower Suwannee Watershed (HUC8- 03110205) which included detailed studies and redelineation in portions of Dixie, Gilchrist, Lafayette, and Levy Counties (total funded amount \$1,354,000 – leverage amount \$129,000\*). The Lower Suwannee RiskMAP study completed the Physical Map Revisions for these counties and the new panels are effective.

The District managed implementation of the FY11 FEMA Mapping Activities Statement (MAS) with detailed studies in the Santa Fe Watershed (HUC8 03110206) which includes portions of Union, Bradford, Columbia, Gilchrist, and Suwannee Counties (total amount \$1,022,920 – leverage amount \$347,920), as well as detailed studies for the Upper Suwannee Watershed (HUC8 03110201) which includes portions of Suwannee, Columbia, and Hamilton Counties (total amount \$1,043,799 – leverage amount \$246,467). The Upper Suwannee and Santa Fe watershed studies have also been completed and the updated panels will all be effective as of November 2018.

The FY12 MAS, consisting of Discovery for the Waccasassa Watershed (\$68,000) and riverine studies in the Econfina-Steinhatchee Watershed (03110102) (\$917,780; leverage amount \$285,780). Also funded under FY12 was integrating the Econfina-Steinhatchee riverine studies with Big Bend coastal modeling for a combined Preliminary map release and Post Preliminary Processing (\$420,000; leverage amount: \$0). The Big Bend coastal modeling was conducted by FEMA's Professional Services contractors -- the models and resulting coastal flood risk mapping include coastal portions of Econfina-Steinhatchee Watershed, Lower Suwannee Watershed and Waccasassa Watershed.

\*RiskMAP leverage amounts are based on SRWMD contributions of Orthophotos, LiDAR, GIS data, and staff time to the RiskMAP projects.

The resulting preliminary maps under the FY12 MAS merged coastal and riverine panel revisions in Econfina-Steinhatchee watershed with coastal panel revisions spanning Econfina-Steinhatchee, Lower Suwannee and Waccasassa watersheds. (Note the coastal panels in the Waccasassa watershed are distinct from the riverine studies recommended under the FY12 Waccasassa Discovery grant. Waccasassa riverine studies were funded under the FY14 grant, see below). The combined panel revisions in the Econfina-Steinhatchee watershed include portions of Taylor, Dixie, Levy, Gilchrist and Levy County, and went effective in FY18.

Managed under the FY13 MAS is the Withlacoochee Watershed (03110203), which includes portions of Madison and Hamilton Counties (total amount \$430,000 – leverage amount \$130,000); and funding for Discovery in the Alapaha watershed. The Withlacoochee is a split study, with funding for preliminary panels and post-preliminary processing approved under the FY14 MAS (\$175,000 – leverage amount \$75,000); and, additional modeling on the Withlacoochee River funded under FY15 (\$65,000). A recent study undertaken by SRWMD for minimum flows and levels in the Withlacoochee provided leverage allowing the FY15 Withlacoochee funds to be reallocated under a Special Problem Report (and MAS amendment) for conversion of this leverage study into RiskMAP, and the excess funds to help cover additional costs associated with the inclusion of FY09 Map Mod counties in the FY10 Lower Suwannee RiskMAP release.

The FY14 MAS also funded the Waccasassa watershed studies (\$350,000 -- leverage LiDAR, Aerials, existing models \$152,000). Waccasassa studies are in progress and will go preliminary in FY20. Additional funding of \$45,000 to cover 19 additional panels impacted by the Waccasassa river modeling was approved under the FY18 grant.

The FY15 MAS also funded Discovery in the Aucilla Watershed (\$85,500; leverage \$4,500); additional panel updates in the Econfina-Steinhatchee watershed based on increased extent of coastal risk mapping (\$60,000); and the additional modeling on the Withlacoochee River (\$65,000) referenced above.

The FY16 MAS represents a milestone in the RiskMAP program. With the FY16 grant SRWMD completes its goal for reviewing and updating flood risk studies in all the watersheds of the District. The final two watersheds to be studied under the FY16 grant are the Alapaha and Aucilla watersheds these studies have been initiated and are expected to be ready for Preliminary Mapping in by the end of 2019. In addition, the District is leveraging the completion of these studies under RiskMAP and expanding its well-received flood risk reporting website to encompass many of the new RiskMAP digital products designed to improve community understanding of flood risk. As well, when the studies are completed in the Upper and Lower Suwannee River watersheds FEMA is funding SRWMD to revisit these two watersheds and identify any new community needs that have been identified due to growth; or flooding experienced in the last five years; or uncovered by the studies that are being completed. Any such needs will be covered by the FY17 and FY18 funded studies of these two watersheds (Chapter 3, this document). (*Note – the Upper and Lower Suwannee River Watersheds in this context are referring to two HUC*

*basins spanning the entire Suwannee River in Florida--not to be confused with the SRWMD designations of upper, middle and lower Suwannee River areas of responsibility).*

As described above, FY17 through FY19 grants have provided the District with the opportunity to complete its goal of fully updating the modeling in the Upper and Lower Suwannee, Santa Fe, and Econfina Steinhatchee watersheds – addressing all models that were identified by FEMA as unverified as well as any new community needs. The amounts funded under these new grants are: FY17-\$1,018,000; FY18-\$1,718,594; FY19-\$1,873,150.

FEMA requested that all partners participating, including the SRWMD, update the Multi-year Project Plan (Business Plan) detailing their approach to implementing the initiative and how the activities will contribute to FEMA’s Risk MAP goals and objectives. This Plan update provides SRWMD program highlights and funding requests through FY24. The broad objectives of the Risk MAP program are stated by FEMA as follows:

- Flood Hazard Data. Address gaps in flood hazard data to form a solid foundation for risk assessment, floodplain management, and actuarial soundness of the [National Flood Insurance Program](#) (NFIP).
- Public Awareness/Outreach. Engage communities and ensure that a measurable increase of the public’s awareness and understanding of risk results in a measurable reduction of current and future vulnerability.
- Hazard Mitigation Planning. Lead and support States, local, and Tribal communities to effectively engage in risk-based mitigation planning resulting in sustainable actions that reduce or eliminate risks to life and property from natural hazards.
- Enhanced Digital Platform. Provide an enhanced digital platform that improves management of Risk MAP, steward’s information produced by Risk MAP, and improves communication and sharing of risk data and related products to all levels of government and the public.
- Alignment and Synergies. Align Risk Analysis programs and develop synergies to enhance decision-making capabilities through effective risk communication and management.

## Chapter 2 VISION FOR SUPPORTING Risk MAP

### 2.1 SRWMD Vision

The Suwannee River Water Management District was created by the Florida Legislature with the passage of the Water Resources Act of 1972, codified in Chapter 373 of the Florida Statutes. The District covers over 7,600 square miles of north central Florida. A listing of the Counties, population and flood insurance policy holders is shown in Table 2-1.

**Table 2-1  
SRWMD Counties Population and Flood Insurance Policies**

County	Population*	# of Policies**
Alachua	266,944	3,169
Baker	28,283	190
Bradford	27,038	514
Columbia	69,612	853
Dixie	16,673	496
Gilchrist	17,743	247
Hamilton	14,184	64
Jefferson	14,144	90
Lafayette	8,451	144
Levy	40,355	1,011
Madison	18,449	97
Suwannee	44,190	576
Taylor	21,833	569
Union	15,517	58

\*Population estimates, July 1, 2017 – Census.gov Quick facts

\*\* From NFIP Policy and Claims Report - Community Information System 9/4/2018

#### 2.1.1 Vision Overview

SRWMD has been a cooperating technical partner with FEMA since 1999. Our vision from the outset is to build relationships with communities and community leaders that promote common understanding of flood risk and water quality risk and promote a common purpose of mitigating flood risk while protecting the waters of the District. We view steady improvement in flood risk forecasting and an equally steady improvement in the means to communicate risk as key. We are seeing improvement in regard to community understanding and trust in our FEMA flood risk maps, as well as acknowledgment of the importance of flood risk insurance and recognition of opportunities to mitigate flood risk at local and regional levels. We currently provide individual flood risk reports to constituents at the parcel level through [srwmdfloodreport.com](http://srwmdfloodreport.com). Over the next five years, we look forward to a range of expanded capabilities to help fulfill our missions, including the improvement of digital flood risk modeling and RiskMAP data infrastructure; stronger links from RiskMAP to flood mitigation actions; better 3-dimensional depictions of flooding; GIS integration of recorded flood elevations; and links to help property owners obtain elevation certificates and flood insurance, in complement to the goals and strategies that follow.

### **2.1.2 Flood Protection Goals**

The mission of the SRWMD is to implement the provisions of Chapter 373, Water Resources, and chapter 403, Environmental Control, Florida Statutes, to ensure the continued welfare of the residents and natural systems of north central Florida. Two of the major goals of the District are to minimize harm from flooding and to enhance public awareness, understanding and participation in water resource management.

Per Florida Administrative Code 62-40.458, Floodplain Protection, related District objectives are:

- Coordination with local, State and Federal governments;
- Pursue development of adequate floodplain protection information including flood level data;
- Jointly develop programs to acquire, protect and enhance floodplain functions and associated natural systems;
- Minimize incompatible activities; and
- Provide available floodplain delineation information.

The District operates under a nonstructural floodplain management policy adopted in 1979<sup>1</sup>. The policy was adopted to avoid the expense of constructing and maintaining flood control works as well as the environmental damage caused by such works. The nonstructural flood protection strategy is founded on accurate floodplain delineation and has been implemented through the following primary program activities:

- Mapping and modeling the floodplains and regulatory floodways of the five major rivers and tributaries;
- Regulating fill and development activity within designated regulatory floodways and floodplains;
- Acquiring and managing lands for floodwater storage, conveyance, and other conservation objectives;
- Assisting local governments with floodplain management responsibilities such as land use planning, development regulation, restoration activities, and public education and outreach;
- Providing Geographic Information System (GIS) data, technical assistance, and leadership within the region;
- Providing technical and funding assistance to local governments in addressing flooding and stormwater management problems.

The key elements of the nonstructural floodplain management policy have been very successful to date in reducing and eliminating environmental harm and the threat of flood damage. These key elements are regulations, land acquisition, GIS development, and

<sup>1</sup> The District Water Management Plan describes the nonstructural flood protection policy and the approach used by the District to implement the policy.

public outreach and assistance. The District's Vision is to initiate a dedicated 5-year public relations outreach campaign focused on flood awareness at every level. Funding for implementing this vision is addressed under the FY2020 funding request.

### **2.1.3 District Water Management Regulations for Flood Protection**

District regulations currently prohibit activities that diminish floodwater conveyance in designated Works of the District Rivers using an innovative approach to implement the authorities granted under Chapter 373, Florida Statutes. Instead of constructing physical works to address flood hazards, the District's program reserves from use that land area necessary to convey the highest velocity flood waters from a 100-year flood event. In addition, District stormwater management regulations require use of the 100-year critical duration storm event as the primary engineering and design criterion for stormwater management facilities.

The second component of the District's non-structural floodplain management strategy is land acquisition and management. The Save Our Rivers, Preservation 2000 and Florida Forever programs have protected over 300,000 acres and 384 miles of river corridor lands, much of it in the 100-year flood plain, protecting the region's river systems, the public, and the public water supply.

### **2.1.4 District and Other Public Conservation Lands**

One of the major objectives of the District is to promote non-structural approaches to achieve flood protection and to protect and restore the natural features and functions of the 100-year floodplain. To that end, the District has undertaken acquisition of floodplain areas for the major rivers and natural storage areas throughout the District. Public ownership in perpetuity of these flood hazard areas assures the ability to retain and attenuate floodwaters, precludes inappropriate development or use of the flood hazard areas, and protects important environmental features of the lands.

The District acquires and manages lands for water management purposes, as authorized and directed by Chapter 373, Part V, Florida Statutes. Since 1983, the acquisition priority has been the voluntary sale of lands within the 100-year floodplain of the Suwannee River and its tributaries, and the floodplains of other rivers in the District. To date, the District has protected over 286,000 acres of land, most of which is floodplains, flood prone, hazardous, and/or environmentally sensitive. Figure 2-1 shows the public conservation lands in the District.

The public, through the District, is the single largest landowner of land along the Suwannee River and its tributaries. Many land tracts of significance has been acquired; current and future land acquisition priorities target in holdings, adjacent lands, and lands that enhance or improve the management of current holdings. Future priorities will target specific areas to mitigate past flood damage and prevent inappropriate use or development of flood hazard areas.

Modernized flood hazard maps that use more detailed and accurate information are essential to the District's continued future success in its land acquisition and management program. The updated and revised maps resulting from this project will allow the District to identify and target the most important flood hazard areas for public ownership and management.

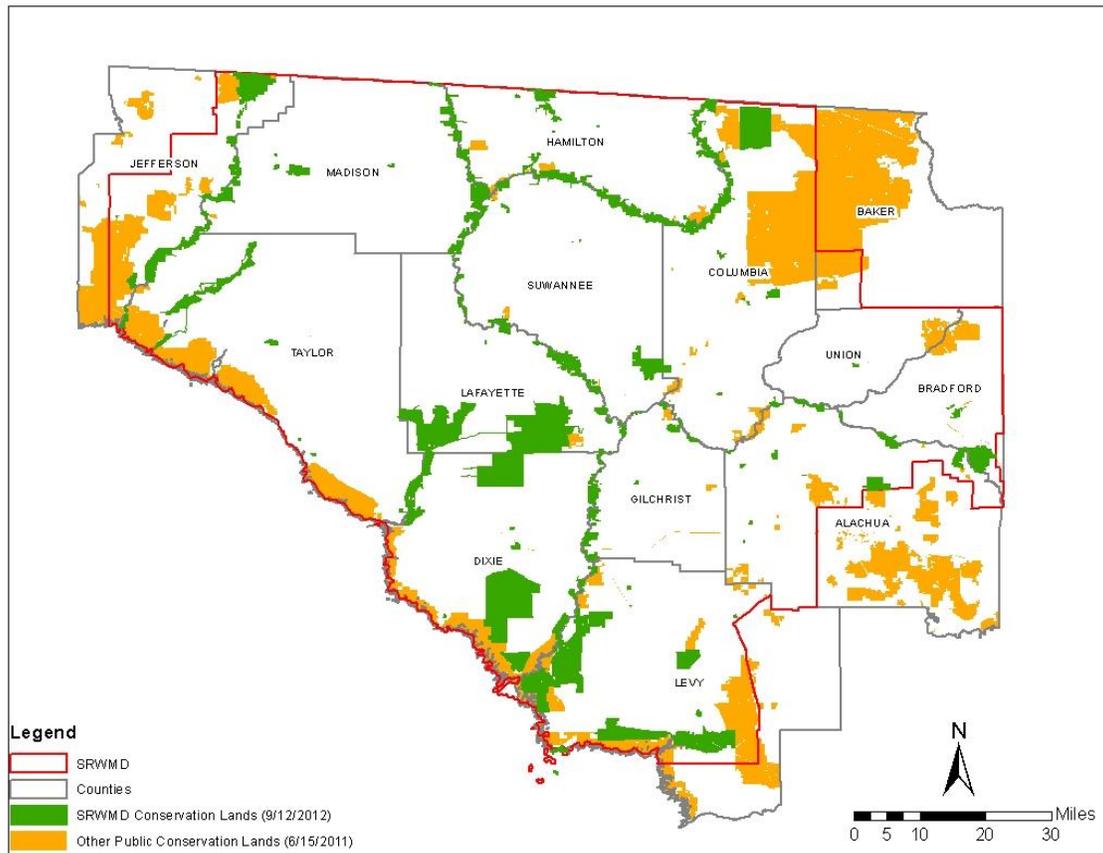


Figure 2-1 SRWMD Public Conservation Lands

### 2.1.5 Geographic Information Systems Development and Public Outreach, and Assistance

Providing maps and other information is a cornerstone of the District's nonstructural flood protection policy. When landowners and local building officials are aware of the location and extent of flood hazard areas, preventive strategies can be more easily implemented. The District has been a regional leader in the development and application of Geographic Information Systems (GIS) since 1983, when the District was selected as a beta test site for ArcInfo, the industry standard GIS developed by Environmental Systems Research Institute, Inc. (ESRI). Since that time the District has developed an extensive geographic data inventory, developed in-house and external capabilities, and provides leadership and assistance to local units of government in the region. Through District efforts, many county property appraisers now have compatible GIS capabilities that will assist in disseminating

flood hazard maps and data at the local level resulting from the map modernization and Risk MAP projects.

Public outreach and assistance is an important component of the nonstructural flood protection policy not just by providing flood maps, but in helping the public gain an understanding of flooding and flood hazards. The District has established a website (<http://www.srwmdfloodreport.com/>) with enhanced flood elevation data for the Suwannee River and its tributaries, Preliminary floodplains; Changes Since Last Firm, and linkage to FEMA. The website enables users to view, query, and analyze flood risk assessment data in an intuitive and user-friendly framework. End-users are able to easily locate any parcel of interest, view the Flood Insurance Study (FIS) and effective Flood Insurance Rate Map (FIRM), and create a Flood Risk Reports that provides the user with flood zone data. All of this assists the user in determining if their property is affected by a flood zone, and descriptions of how to interpret the specific FEMA flood zones. The websites will continue to be updated and populated with information on Risk MAP and flood risk data generated during DFIRM studies produced in the course of the Risk MAP program. This interface is intended to be used by the general public, community officials, and Cooperating Technical Partner staff who may not be familiar with a typical GIS interface.

GIS partnerships with most of the local governments within the District have been established. The GIS partnerships provide local governments with environmental sensitive data such as special flood hazard areas. This outreach tool assists local governments in advising property owners and potential property owners about flood risks and other environmental features associated with a parcel of land.

Since a core mission area of the Suwannee River Water Management District (District) is flood information, protection and mitigation, the District is undertaking an expansion of its outreach beyond the tools and training described above to engage in an active outreach campaign using a public relations firm. This is expanded in Section 2.2.4 below.

## **2.2 SRWMD Risk MAP Level of Participation**

The SRWMD vision for the Risk MAP initiative is to address data gaps in flood hazard data, increase public awareness, lead engagement in mitigation planning, provide enhanced digital platform for risk information, and align risk analysis programs while improving the quality of Risk MAP products. These goals are explained in further detail below.

- Goal 1: Address gaps in flood hazard data to form a solid foundation for risk assessment, floodplain management, and actuarial soundness of the National Flood Insurance Program
  - Initiate Risk MAP flood map update projects to address flood hazard data needs in high flood risk areas affected by coastal flooding, levees and other riverine flood hazards
  - Develop flood depth grids based on updated or validated engineering flood studies for use in risk communication outreach products and flood risk assessments

- Goal 2: Ensure that a measurable increase of the public’s awareness and understanding of risk results in a measurable reduction of current and future vulnerability to flooding. Overarching outreach strategy will:
  - Convey risk in terms of consequences and probability, and conveys the social impacts of flood risk
  - Follow the entire Risk MAP life cycle from the continuous update of flood hazard data to the continuous update of a jurisdiction’s hazard mitigation plan
  - Establish a baseline of local understanding of local risk. Communities can use this baseline to measure progress annually
  - Keep the message simple so that the information is easily conveyed to the public
- Goal 3: Lead and support state, local and tribal communities to effectively engage in risk-based mitigation planning resulting in sustainable actions to reduce or eliminate risks to life and property from hazards
  - Assist state, local and tribal entities to develop, adopt and implement FEMA-approved hazard mitigation plans
  - Communicate the benefits of mitigation planning messages in an overarching Risk MAP outreach strategy
  - Promote the integration of mitigation planning into other state, local and tribal planning processes
- Goal 4: Provide an enhanced digital platform that improves management of Risk MAP, stewards the information produced by Risk MAP and improves the communication and sharing of risk data and related products with all levels of government and public
  - Improve tracking of state and local hazard mitigation plans
  - Improve map production tools
  - Find and invest in accurate digital geospatial data to support improved flood hazard and flood risk analysis
  - Provide simplified access to updated flood risk models emerging from the RiskMAP program
- Goal 5: Align Risk Analysis programs and develop synergies to enhance decision making capabilities through effective risk communication and management

It is the objective of the District to be the full service provider for all engineering, mapping, and administrative requirements within the SRWMD boundaries. For its management plan to be effectively implemented, the District will need the full support and involvement of other CTPs and user communities. To ensure the full engagement of its partners, the District will commit a significant amount of resources to manage stakeholder expectations through upfront coordination, outreach, and customer service. In addition, the District will execute Memorandums of Understanding (MOU) with each County and participating community.

Through its three branches, technical management, IT systems, and customer service (see Figure 2-3); the SRWMD will satisfy its five goals outlined above. Furthermore, the SRWMD will continuously assess the effectiveness of its program and make the necessary

changes to ensure the highest quality service and deliverables. Details of the District's level of participation follows.

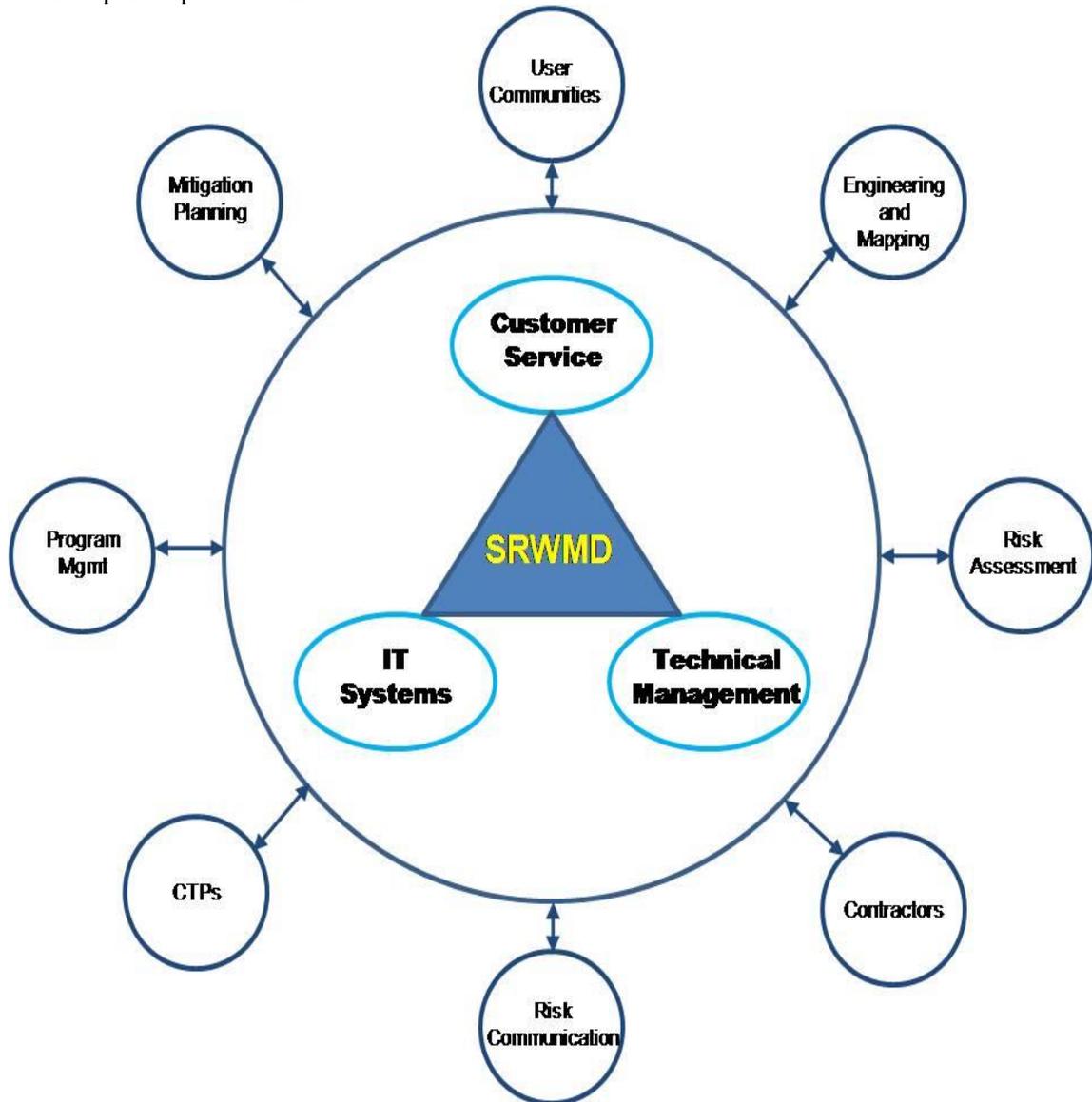


Figure 2-2 SRWMD Comprehensive Management Support of Risk MAP Needs

### 2.2.1 Engineering and Mapping

The SRWMD will continue to support all activities associated with identifying flood hazards and the technical production of accurate Digital Flood Insurance Rate Maps (DFIRM) and Flood Insurance Studies (FIS). Following the Risk MAP program, the District and its contractor's propose to perform all the activities listed below:

- Discovery activities: field visits, CNMS updates, review mitigation plans, discovery reports and maps, conduct community interviews, coordination and attendance at County and community Discovery meetings, and development of project scope
- Data collection activities: field surveys, topographic data/LiDAR, existing H&H studies and digital basemaps (updated USGS DOQQ);
- Engineering activities: hydraulic, hydrologic, riverine analyses;
- Floodplain delineation activities: detailed, approximate, and re-delineation;
- Public outreach for feedback on initial flood maps and identification of areas that may require additional public outreach and communication for smooth map adoption
- DFIRM Production activities: Preliminary DFIRM, QA/QC, and database development; and
- Flood risk dataset activities: development of changes since last Flood Insurance Rate Map, flood depth and analysis grids, flood risk assessment data, areas of mitigation interest;
- Post Preliminary Processing: Community Meetings and Map Adoption

The District's strategy to implement the engineering and mapping component will utilize the District's existing engineering, mapping, and GIS technical infrastructure along with outsourcing of the majority of the engineering and mapping to contractors. The District has extensive experience in water resource related activities, which provides an ideal staging point for the implementation of the District's mapping and engineering role. The District will also provide ongoing floodplain management coordination with the local communities participating in the NFIP to allow for a more local management of the issues that concern FEMA. As part of its management strategy, the District will manage and coordinate all contractor activity in the SRWMD.

The District will use detailed topography (LiDAR) of the floodplain and coastal areas likely to experience significant development pressures in the coming years at it becomes available. As of FY18, the District has completed LiDAR mapping of all areas and will engage in reviewing the oldest LiDAR mapping for potential update needs.

### **2.2.2 Risk Assessment and Risk Communication**

The SRWMD will assess and communicate risk to ensure that a measurable increase of the public's awareness and understanding of risk results in a measurable reduction of current and future vulnerability to flooding.

Risk assessment data and analyses are defined as processes for analyzing or evaluating the risk associated with a hazard, and using that information to make informed decisions on the appropriate ways to reduce the impacts of the hazard on people and property. As part of the Risk MAP Program, non-regulatory Flood Risk Products shall be developed for study areas based upon the latest guidance available. Flood Risk Products that will be created include Flood Risk Reports and Flood Risk Maps.

Flood Risk Products serve as the delivery mechanisms for the Flood Risk Datasets and information developed within a flood risk study. Typically, these Flood Risk Datasets include but are not limited to:

- Changes Since Last FIRM
- Depth & Analysis
- Flood Risk Assessment

Although this program is conceived on a HUC-8 watershed flood hazard and flood risk analysis framework, it is also recognized that there will be occasions where a watershed approach is not appropriate. Examples include site-specific levee analysis, coastal analysis. As a result, Flood Risk Products and Flood Risk Datasets are intended to be scalable to support the variability of project requirements and available funding.

### **2.2.3 Mitigation Planning and Actions**

The SRWMD will assist and support state, local and tribal communities to effectively engage in risk-based mitigation planning resulting in sustainable actions to reduce or eliminate risks to life and property from hazards. FEMA considers mitigation planning to be critical, and mitigation planning technical assistance will be identified starting at Discovery. During initial plan development there are four phases of the planning process:

- Planning Process
- Risk Assessment
- Mitigation Strategy
- Plan Maintenance

Hazard Mitigation Planning technical assistance and training provided through Risk MAP will focus on building a community's capability to plan for and reduce risk. The following steps are to be emphasized:

- Incorporating new flood hazard and risk information;
- Updating and refining mitigation strategies, especially as related to new flood hazard/risk information;
- Training mitigation planning teams; and
- Incorporating mitigation into existing community plans, programs, and policies.

Throughout the RiskMAP cycle, the District will utilize Region IV best practice templates to track and report Actions.

#### **2.2.4 Community Outreach and Mitigation Strategy**

An essential component of the SRWMD Risk MAP program is community outreach and customer service to ensure stakeholder support and public awareness. Outreach begins during the Discovery phase of a watershed-level Risk MAP project and continues through final community meetings. The primary goals of the outreach component are to:

- Engage communities early and often of Risk MAP projects;
- Increase public awareness of risk and education of flood hazards;
- Communicate the benefits of the hazard mitigation planning process;
- Ensure stakeholder support and proper management of expectations;
- Establish two-way communication with stakeholders impacted by the floodplain remapping, as well as the NFIP in general;
- Ensure compliance with due process and other regulatory requirements;
- Minimize the number of technical appeals and protests;
- Ensure public understanding of the benefits of new maps;
- Interact with technical representatives to ensure production of quality maps;
- Enhance ownership and use by communities;
- Ensure that other users know how to use the new maps; and
- Track/monitor/evaluate outreach activities and adjust efforts according to feedback received and evolving project needs.

To accomplish these goals, the SRWMD will provide: an interactive website for the public to view flood risk data and obtain DFIRMs, FIS reports and risk reports; stakeholder notification to each County and community included in the Risk MAP project; public education and information through public meetings; informational brochures/newsletter article; PowerPoint presentations to interested organizations; press releases; flood risk products; and a planned new online video webinar series to provide user guidance on available products approved under current funding.

Since a core mission area of the Suwannee River Water Management District (District) is flood information, protection and mitigation, the District is undertaking an expansion of its outreach beyond the tools and training described above. Flooding and high-water events pose significant threats to communities throughout the Suwannee River Water Management District; and, these threats are magnified as land use changes and development continues within the floodplain. To further serve our constituents, the District is planning to enlist a dedicated public relations company to develop an active outreach campaign with the goal of increasing knowledge and awareness of flooding impacts and risks. The desired result of this campaign will be a behavior change to increase flood knowledge, preparedness and mitigation, as well as, stop unlawful flooding impacts. The District plans to accomplish this behavior change through a multi-media campaign involving videography, photography, print materials, and advertising.

### **2.2.5 Independent QA/QC**

The SRWMD will continue to oversee all necessary QA/QC functions for both engineering and mapping products associated with the DFIRM projects in the District. QA/QC activities will be performed either by District personnel or one of the District's contractors. QA/QC reviews will be performed by qualified personnel other than those who performed the work. FEMA guidelines will be followed for all engineering and mapping reviews along with standard engineering QA/QC guidelines. QA/QC activities will be funded by FEMA to the District through the Risk MAP funding grant process.

### **2.3 Program Management**

The SRWMD will provide a program management structure that will motivate partners to share responsibilities and align the District's, FEMA's and the local community missions to reduce vulnerability to floods and other hazards and increase public awareness of risk and education of flood hazards. The objective of Program Management activities is to recognize the activities undertaken by CTPs as part of the active process of managing multiple projects for the SRWMD. All process and deliverables shall be completed in accordance to FEMA's Guidelines and Specifications for Flood Hazard Mapping Partners (G&S) and effective Procedure Memoranda (PMs).

Program management for the District's participation in Risk MAP program will be accomplished through the combined use of District staff and the use of contractors. The contractor will implement the following program management action items:

- Define program management goals including those associated with prioritization and execution of program elements;
- Assist in the annual update of the Risk MAP Business Plan;
- Assist in outreach activities (community meetings, media coordination and mailings);
- Coordinate and/or administer training for Communities affected by the proposed DFIRM updates regarding RiskMAP, the Community Rating System, and Flood Insurance
- Continued development of website to provide widespread access to Risk MAP data, improved risk analysis reporting and generation of reports consistent with Risk MAP goals and datasets
- Maintenance of the SharePoint site and calendars
- Identify roles and responsibilities for all entities contributing to the District's mapping efforts;
- Develop and manage data standards, product specifications, and quality of the products to be used by the communities and other end users;
- Manage and track the progress of the DFIRM projects against schedules and budgets;
- Develop monthly status reports for District use and quarterly status reports that are to be supplied to FEMA Region 4;
- Evaluate program performance and recommend improvements;
- Promote partnerships with local communities through meetings and data mining;

- Provide for program management staff time;
- Development of continuous improvement strategies and innovative technical and building practices;
- Manage Risk MAP discovery and prioritization of projects in collaboration with the District;
- Track production of DFIRM products of District study contractors;
- Assist as needed with interpretation and implementation of Risk Map requirements;
- Develop an effective post storm and/or post disaster flood hazard documentation and assessment procedure that will be utilized to continually assess the accuracy of the Special Flood Hazard Areas (SFHA) on the DFIRMs. This information will be utilized for restudy determination purposes;
- General support activities including those defined in 44CFR, Part 66;
- Risk MAP reviews;
- FEMA mapping coordination (DCA coordination, flood recovery mapping);
- NSP/CTP pre-discovery activities.

### 2.3.1 IT Management System

The IT management systems will be the foundation that the technical management and outreach service components will be built upon. The system is composed of three major modules: the public websites (mentioned in the outreach section), the data management system, and the data repository. Of the three modules, the data repository, accessible through FEMA’s MIP, will be the core component. Figure 2-3 illustrates the relationship among the three modules.

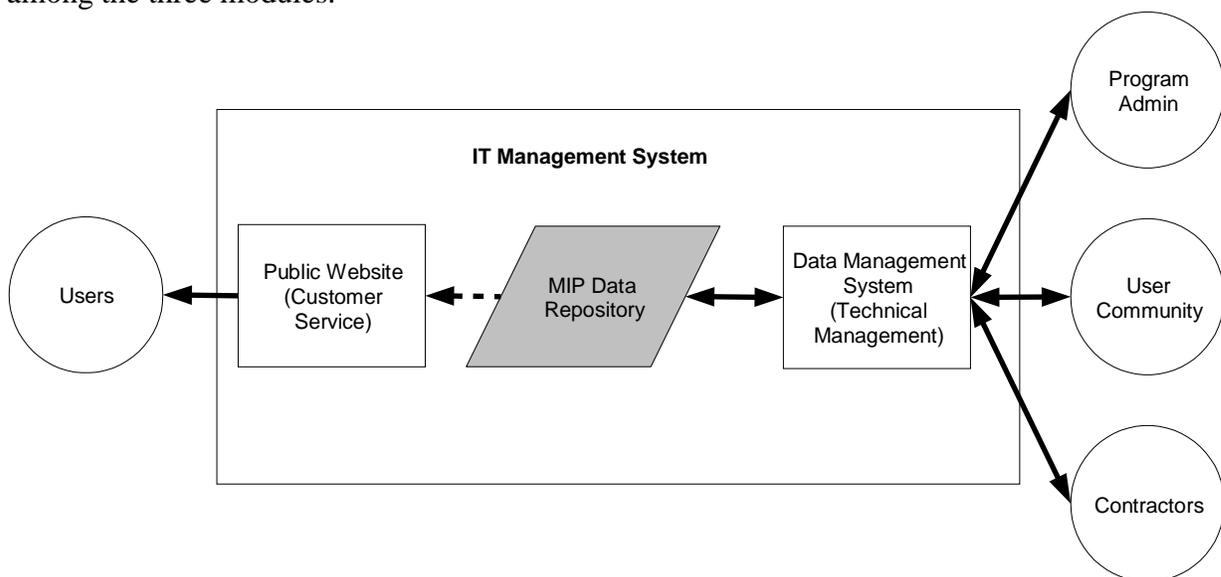


Figure 2-3 The IT Management System

Development of the public websites will continue to be updated for the duration of the Risk MAP program. Of the three modules the public websites have an immediate impact to generate public awareness and manage public expectations. Elements of the MIP data repository will be made available to the public by way of these websites. The District is

using an offsite hosting service for the public website through a study contractor to store, disseminate and maintain DFIRM data, and RiskMAP products. In addition, the District website provides links to FEMA for electronic versions of the DFIRMs and Flood Insurance Studies.

### **2.3.2 Community Outreach**

An essential component of the SRWMD Risk MAP program is community outreach and customer service to ensure stakeholder support and the proper management of expectations of the overall program. The SRWMD will focus its customer service activities through various mechanisms, including interactive websites with community information and status of ongoing projects, in-house and community training programs, and public outreach activities. The website (<http://www.srwmdfloodreport.com/>) is a GIS-enabled system that will allow users to review the current status of existing projects, announcements, complete informational tutorials, and download fact sheets, issue papers, news releases, and other documents. The site also includes a data viewer where DFIRM data is available for viewing and printing maps. All of this assists the user in determining if their property is affected by a flood zone, and descriptions of how to interpret the specific FEMA flood zones. An added feature of the site is the ability of the user to view preliminary flood data that is available. The goal of this site is to help the user identify their flood risk. The objectives for the site is to provide the user with flood zone data, identify risk, and assist the user in determining how far they are from the flood zone. The website will continue to be populated with flood risk data generated during DFIRM studies produced in the course of the Risk MAP program.

In addition to the above activities that promote the ownership of FEMA's flood hazard maps by user communities, there will be additional activities by the SRWMD to raise public awareness and participation in the study process. These activities could include such activities as fact sheets, flyers, information packages, advertisements, and outreach meetings with local government officials. By providing more outreach opportunities directed toward local governments, the SRWMD could leverage existing data and analyses from local levels. Furthermore, due to increased involvement of citizens and local officials, there will be a reduction in the number of appeals and protests to DFIRM products.

The SRWMD also proposes outreach and coordination with the Northwest Florida Water Management District (NFWFMD) for Map Modernization and Risk MAP activities that affect Jefferson County and the Southwest Florida Water Management District (SWFWMD) for activities that affects Levy County that lie only partially within the jurisdiction of the SRWMD.



2023 a 3<sup>rd</sup> cycle is anticipated to begin with the Upper and Lower Suwannee, to account for changes in flooding due to mitigation actions recommended under cycle one, as well as changes due to growth.

**FY19 Funding (approved) – Econfina-Steinhatchee HUC8 basin (03110102) and additional funding for Upper and Lower Suwannee basins**

Discovery, studies and re-mapping in Econfina-Steinhatchee HUC8 basin (03110102); Districtwide CNMS database updates; Discovery in Waccasassa and Withlacoochee watersheds.

1. Additional study in the Econfina-Steinhatchee is anticipated as map maintenance activities due to mitigation actions, new growth, community needs, flooding since last studies, new leverage from MFL studies, and CNMS unverified miles. Discovery to identify new needs (\$68,000).  
Funding for additional studies to update new areas of concern identified in Discovery and address unverified/Tier 0 NVUE (326 miles) and expand footprint of RiskMAP products (\$1,314,750)
2. CNMS/NVUE revalidation of expiring miles across District. 17-point review and update -- 298 total expiring miles: 144 detailed (all unverified); 154 approximate. (\$117,400)
3. Discovery update under RiskMAP cycle for Waccasassa HUC8 basin (03110101) and Withlacoochee HUC8 basin (03110203) (\$98,000)

Enhanced Program Management and Community Outreach and Mitigation Strategies (COMS) to continue outreach activities and continue incorporating training, tracking and web-based map and model management capabilities into the SRWMD website; and links to help users obtain elevation certificates; as well as PiMS training costs for District staff (Program Management \$75,000; COMS \$200,000).

Total Funding: \$1,873,150

**FY20 Funding – Studies in Waccasassa HUC8 Watershed (03110101) and Withlacoochee HUC8 Watershed (03110203)**

Studies and mapping in Waccasassa HUC8 basin (03110101) and Withlacoochee HUC8 basin (03110203); Discovery in Aucilla and Alapaha watersheds; addressing the need for RiskMap Products in unrevised areas.

1. In Waccasassa and Withlacoochee watersheds additional study is anticipated for map maintenance due to mitigation actions, new growth, community needs, flooding since last studies, new LiDAR data, new leverage, and all Tier

0 and Unverified NVUE miles (285 miles Waccasassa; 75 miles Withlacoochee). Note this is 75 miles in Florida only out of the northern Withlacoochee watershed (03110203) that lies partly in Georgia and partly in SRWMD. Another Withlacoochee watershed lies in Southwest Florida Water Management District and is sometimes mistakenly merged into one watershed in CNMS roll-ups (Waccasassa \$988,380; Withlacoochee \$384,370).

2. Expiring CNMS/NVUE miles across the District – 4 miles detailed (\$1000)
3. Plan for addition of non-regulatory products for unrevised areas. To be used as outreach tools and integrated with web-based outreach and incorporate Areas of Mitigation Action (\$200,000).
4. Discovery in the Aucilla and Alapaha watersheds (\$88,000)

Ongoing Program Management (\$75,000). COMS to continue outreach activities incorporating training, tracking and web-based map and model management capabilities into the SRWMD website; as well as PiMS training costs for District staff (COMS \$200,000).

For FY2020 the District will also request funds for a special 5-year program under COMS. A core mission area of the Suwannee River Water Management District (District) is flood information, protection and mitigation. The District takes a non-structural approach to flood protection which includes planning, projects, permitting and outreach. Flooding and high-water events pose significant threats to communities throughout the Suwannee River Water Management District; and, these threats are magnified as land use changes and development continues within the floodplain. The District is seeking a dedicated public relations company to develop an outreach campaign with the goal of increasing knowledge and awareness of flooding impacts and risks. The desired result of this campaign will be a behavior change to increase flood knowledge, preparedness and mitigation, as well as, stop unlawful flooding impacts. The District plans to accomplish this behavior change through a multi-media campaign involving videography, photography, print materials, and advertising. (Additional COMS funding: \$200,000).

Total Funding: \$2,136,750

### **FY21 Funding – Studies in Aucilla (03110103) and Alapaha (03110102) Watersheds**

Studies and mapping in Aucilla HUC8 basin and Alapaha HUC8 basin in Florida; (scoped under Discovery funded in FY20). Previous studies in the Aucilla and Alapaha are expected to complete by FY22 as FY21 funding becomes available.

Also fund Upper and Lower Suwannee for new Discovery; pending completion of studies funded under FY17-FY19 grants. Discovery will be based on findings of the previous studies; any mitigation actions completed during the previous 5 years; new

community growth; and newly identified community needs highlighted by any major flooding events since 2019.

In addition, the Lower Suwannee Watershed is one of the watersheds that may be potentially impacted by the Florida Multi-use Corridors of Regional Economic Significance (M-CORES). The M-CORES Suncoast Connector project is listed at [floridamcores.com](http://floridamcores.com) for construction being completed by the end of 2030. Potential impacts of the proposed corridor will need to be considered when identifying new study needs in the Lower Suwannee watershed.

1. Upper and Lower Suwannee Watersheds: On completion of the previous round of studies and release of new effective maps focused along the main stem of the river, a new round of Discovery to continue the RiskMAP cycle (Upper Suwannee \$68,000; Lower Suwannee \$68,000)
2. In Aucilla and Alapaha watersheds, additional study is anticipated for map maintenance due to mitigation actions, new growth, community needs, flooding since last studies, new data such as the current statewide LiDAR update, new leverage, and completing unverified NVUE miles (387 mi) . (Aucilla \$1,282,750; Alapaha \$310,000)
3. Expiring CNMS/NVUE miles – 17-point updates to CNMS database for 438 total expiring miles: 97 detailed; 341 approximate (\$36,777)

Enhanced Program Management and COMS to continue outreach activities and continue incorporating training, tracking and web-based map and model management capabilities into the SRWMD website; as well as PiMS training costs for District staff (Program Management \$75,000; COMS \$200,000).

Total Funding: \$2,040,527

#### **FY22 Funding – Studies in Upper (03110201) and Lower Suwannee (03110205) HUC8 Watershed**

Anticipating the completion of the FY17-19-funded studies in the Upper and Lower Suwannee watersheds in 2023, the RiskMAP cycle in these watersheds should circle back and be ready to study areas identified by communities as needing further study. FY22 funding would be approved and awarded by the end of FY22, allowing for governing board approval of contracts to initiate new studies in the FY 2023; giving the communities assurance that their voices are being heard and responded to in a timely manner. Likewise, to provide similar responsiveness in the Santa Fe watershed, the next round of Discovery should be undertaken there as the previous study is completed.

1. Discovery in the Santa Fe watershed to identify and scope studies to address any new needs. (\$68,000)
2. Upper and Lower Suwannee Watersheds: Additional study of each watershed is anticipated for map maintenance due to any flood reduction attributable to mitigation actions over the previous 5 years, new growth, other community needs, new data; or new flooding experienced since last studies. (Upper Suwannee: \$750,000; Lower Suwannee: \$950,000).
4. Expiring CNMS/NVUE miles – 17-point updates to CNMS database for expiring miles anywhere in SRWMD. Estimate (\$25,000)

Enhanced Program Management and community outreach and mitigation strategy (COMS) to continue outreach activities and incorporate training, tracking and updates to the non-regulatory products, model management, maintenance and upgrades to digital infrastructure, as well as fund District staffing needs for attending the annual Partners in Mitigation training (\$288,000).

Total Funding: \$2,081,000

#### **FY23 Funding – Santa Fe Watershed Studies (03110206)**

Completion of current FY18-funded studies in the Santa Fe Watershed should result in new effective maps by December 2023. Funding approval to continue the RiskMAP cycle in Santa Fe Watershed should be sought during FY23, anticipating approval of grant by September 2023, and commencement of a new cycle early in 2024.

1. Additional studies, map updates, and mitigation action recommendations anticipated for map maintenance due to mitigation actions enacted to change flood risk during previous five years, new growth, community needs, and any flooding experienced in the Santa Fe Watershed. \$950,000)
2. Expiring CNMS/NVUE miles across the SRWMD estimate (\$35,000)

Enhanced Program Management and COMS MAS to continue outreach activities and incorporating training, tracking and web-based map and model management capabilities into the SRWMD website, as well as partially fund District staffing needs for RiskMAP programs (COMS: \$200,000; Program Management: 88,000).

Total Funding: \$1,273,000

## **FY24 Funding – Econfina-Steinhatchee Watershed Studies (03110102)**

Completion of FY19-funded studies in the Econfina-Steinhatchee Watershed should result in new effective maps by December 2024. Funding approval to continue the RiskMAP cycle in the Watershed should be sought during FY24, anticipating approval of grant by September 2024, and commencement of a new cycle in 2025.

The Econfina-Steinhatchee watershed lies within the study area for the Florida Multi-use Corridors of Regional Economic Significance (M-CORES) Suncoast Connector project and may be potentially impacted by the corridor. That project is listed at [floridamcores.com](http://floridamcores.com) for construction being completed by the end of 2030. Any potential impacts of the proposed corridor will need to be considered when identifying study needs in the watershed.

1. Discovery in the Econfina-Steinhatchee watershed to identify and scope studies to address any new needs (\$68,000)
2. Additional studies, map updates, and mitigation action recommendations anticipated for map maintenance due to mitigation actions enacted to change flood risk during previous five years, new growth, community needs, and any flooding experienced in the Econfina-Steinhatchee Watershed. \$850,000)
3. Expiring CNMS/NVUE miles across the SRWMD estimate (\$25,000)

Enhanced Program Management and COMS MAS to continue outreach activities and incorporating training, tracking and web-based map and model management capabilities into the SRWMD website, as well as partially fund District staffing needs for RiskMAP programs (Program Management \$98,000; COMS \$200,000).

Total Funding: \$1,241,000

## **Chapter 4**

### **GEOSPATIAL DATA COORDINATION**

Through Circular A-16, the Office of Management and Budget (OMB) directs Federal agencies that produce, maintain or use spatial data to participate in the development of the National Spatial Data Infrastructure (NSDI). The goal of the NSDI is to reduce duplication of effort among agencies; improve quality and reduce costs related to geographic information; make geographic data more accessible to the public; increase the benefits of using available data; and establish key partnerships with cities, counties, states, tribal nations, academia and the private sector to increase data availability.

To help realize this goal, FEMA has developed a Geospatial Data Coordination Policy and a plan for implementing that policy. In support of the policy, metadata catalogs and other tools will provide access to the data holdings of FEMA's flood mapping program through various portals of the NSDI.

#### **4.1 SRWMD Geospatial Coordination**

The SRWMD is currently implementing portions of the items contained in the Geospatial Data Coordination Policy. The SRWMD is acquiring existing data for use in the development of the DFIRM and ensuring that the data is FGDC compliant. The District is currently utilizing existing USGS digital orthoquads and topographic data. To date, other digital photo data or topographic data has not been utilized.

As part of the Map Modernization and Risk MAP process, the District is also developing digital database and metadata information for use by other agencies or the public. In addition to providing this information on the MIP, the District will also provide this information to the NSDI clearinghouse.

In accordance with FEMA's *Geospatial Data Coordination Policy*, dated August 23, 2005, and FEMA's current Geospatial Data Coordination Implementation Guide, all SRWMD geospatial data will be "coordinated, collected, documented and reported with standardized, complete and current information in compliance with Federal geospatial data reporting standards." This will entail the following:

- Posting planned projects to appropriate systems for coordination;
- Identifying existing data;
- Acquiring existing data;
- Building partnerships for the creation of new data; and
- Documenting and standardizing data.

## MEMORANDUM

TO: Governing Board

FROM: Warren Zwanka, P.G., Division Director, Resource Management

FROM: Steve Minnis, Deputy Executive Director, Business and Community Services

DATE: November 29, 2019

RE: Authorization to Enter into Contract with AECOM for FEMA FY 2017 and 2018 Risk MAP Product Production Consultant Services

### RECOMMENDATION

**Staff recommends the Governing Board authorize the Executive Director to enter into contract with AECOM for an amount not to exceed \$1,342,423 for Federal Emergency Management Agency Fiscal Year 2017 and 2018 Risk MAP Product Production Consultant Services for the Upper and Lower Suwannee River watersheds.**

### BACKGROUND

The District has been a Cooperative Technical Partner (CTP) with Federal Emergency Management Agency (FEMA) for over almost 20 years. As a CTP, the District receives funding annually from FEMA through the Risk MAP program to hire engineering firms who help local governments update and improve their floodplain maps and increase public flood hazard awareness. In September 2017, the District was awarded a grant in the amount of \$1,018,000 to implement the FEMA Fiscal Year (FY) 2017 priorities, of which \$734,008 was allocated to AECOM for Product Production Consultant (PPC) services. In September 2018, the District was awarded a grant in the amount of \$1,718,594 to implement the FEMA FY 2018 Risk MAP priorities, of which \$608,415 was allocated to AECOM. The CTP program directly supports the District's core mission of reducing flood vulnerability.

On September 9, 2014, the Governing Board approved AECOM as a qualified engineering firm to provide PPC services for FEMA FY 2014 through FY 2018 Risk Map projects. The primary task of the PPC firm is to develop the hydrology and hydraulic models needed to create or update maps. Firms are selected each fiscal year based on their previous work experience, knowledge of a particular geographical region and work load. The 2017 and 2018 mapping activity statement provides \$1,342,423 in funding to complete the hydrology and hydraulic model revisions for the Upper and Lower Suwannee River Watershed. All mapping rates are established and approved by FEMA. Firms invoice the District as they complete the work and FEMA reimburses the District by direct deposit within days of submitting the invoices. Funds are included in the FY 2018 budget under code 56-0-2586-0-1300-18.

LM/tm

**Attachment 1**  
**Scope of Services, Standards, Deliverables, Anticipated Schedule, and Fee**  
**For The Upper Suwannee Watershed (03110201) and the Lower Suwannee Watershed**  
**(03110205) as Identified in FEMA Mapping Activity Statement Numbers 17.14.f and**  
**18.15.f**

**SCOPE OF SERVICES**

The objective of the Flood Risk Project documented in this scope of services is to develop and/or support flood hazard data through completing technical risk analysis and mapping activities. These activities will result in a new or updated Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for one or more communities within the project area.

The watersheds and jurisdictions in which Flood Risk Projects will be performed, as well as their applicable project activities, are summarized in Table 1.1: Flood Risk Project Watersheds and Jurisdictions. Watershed Reports will be created and distributed to counties and communities identified as including Discovery in the Project Type.

**Table 1.1 Flood Risk Project Watersheds and Jurisdictions**

Watershed	Counties Included in Project	Project Activities
<b>Upper Suwannee (03110201)</b>	FL-Portions of Baker, Columbia, Hamilton and Suwannee Counties	Tasks 1 – 13 listed below.
<b>Lower Suwannee (03110205)</b>	FL-Portions of Dixie, Gilchrist, Lafayette, Levy, Madison and Suwannee Counties	Tasks 1 – 13 listed below.

AECOM will develop new and/or updated flood hazard data for the Upper Suwannee Watershed as summarized in Table 1.2: Total Stream Mile Counts by Type of Study. The FIRM and FIS report for the watersheds and areas identified in Table 1.2 will be produced in the North American Vertical Datum of 1988 (NAVD88).

**Table 1.2 Total Stream Mile Counts by Type of Study for the Upper Suwannee Watershed**

Type of Study	Miles	Hydraulic Analysis Option	1D or 2D
<b>Effective Flood Insurance Study (no update)</b>	504	415 Zone A 86 Zone AE 3 Zone X	1D
<b>Updated Effective Zone AE or Equivalent Studies</b>	64		1D
<b>Updated Effective Zone A Studies</b>	355		2D
<b>New Zone AE or Equivalent Studies Identified</b>	To be determined in Discovery		
<b>New Zone A Studies Identified</b>	To be determined in Discovery		

AECOM will develop new and/or updated flood hazard data for the Lower Suwannee Watershed as summarized in Table 1.3: Total Stream Mile Counts by Type of Study. The FIRM and FIS report for the watersheds and areas identified in Table 1.3 will be produced in the North American Vertical Datum of 1988 (NAVD88).

**Table 1.3 Total Stream Mile Counts by Type of Study for the Lower Suwannee Watershed**

Type of Study	Miles	Hydraulic Analysis Option	1D or 2D
<b>Effective Flood Insurance Study (no update)</b>	493	255 Zone A 229 Zone AE 9 Zone X	1D
<b>Updated Effective Zone AE or Equivalent Studies</b>	84		1D
<b>Updated Effective Zone A Studies</b>	79		2D
<b>New Zone AE or Equivalent Studies Identified</b>	To be determined in Discovery		
<b>New Zone A Studies Identified</b>	To be determined in Discovery		

Metadata is required for certain activities. Current Data Capture Standards (DCS) will be adhered to as part of this scope of services. AECOM will upload deliverables complying with this guidance at major production data capture points in the Mapping Information Platform (MIP) workflow. Major production data capture points include: scoping, base map, terrain, survey, hydrologic analysis, hydraulic analysis, floodplain mapping for redelineation and digital conversion, and post-preliminary data for studies. National Flood Insurance Program (NFIP) metadata are required for orthoimagery, terrain, survey, hydrology, hydraulics, alluvial fans, coastal, and floodplain mapping. Certification of submitted data for FEMA-funded studies is required. Although certification requirements are included for each workflow step, AECOM need only to complete and submit one product certification when their work on a project is complete.

AECOM will respond to comments generated as a result of the mandatory quality control checks by the Production and Technical Services (PTS) contractor.

### **Task 1. Project Management**

Project Management is the active process of planning, organizing, and managing resources toward the successful accomplishment of predefined project goals and objectives. AECOM will coordinate with the SRWMD with respect to Project Management activities and technical mapping activities.

#### **Task 1.1 - Earned Value Data Entry**

Earned Value data entry involves updating cost, schedule and performance (physical percent complete) in the MIP. Once the baseline has been established in the MIP by FEMA, AECOM shall input the performance and actual cost to date for identified tasks. This will be completed at a minimum once every 30 days and at the completion of the task. AECOM will also populate

the MIP with appropriate leverage information regarding who (CTP or community) paid for the data provided and the amount of data used by the Flood Risk Project. AECOM will maintain a Schedule Performance Index (SPI) and Cost Performance Index (CPI) of at least 0.92. Special Problem Reports (SPR) explaining any variance must be submitted in a timely manner as required.

**Task 1.2 - Project Risk Identification and Mitigation**

Threats to the planned completion of a project may come from various sources. AECOM will identify potential project risks during the planning phase and monitored throughout the project, so that potential impact can be assessed, and solution strategies developed and implemented as needed. The following potential project risks were identified in MAS 18.15.f.

**Table 1.4 Project Risks Identified in MAS 18.15.f**

Project Risk	Potential Impact	Solution Strategy
Improved mapping might place significant number of homes and businesses into special flood hazard areas, resulting in community CEO's rejecting or obstructing maps.	Project delays, additional expenses, loss of community support for map updates in spite of more accurate depiction of flood risk.	CTP (SRWMD) will provide newsletters to stakeholders and keep open channels for communication and establishing cordial relations during process. Also, SRWMD mapping memo is referenced to map broad shallow flooding areas < 1 foot as Zone X Shaded, consistent with FEMA policy. Study contractors and CTP will visit community reps before project initiation and during project to build positive relationships. The outcome of these meetings will be conveyed to the FEMA Region IV Project Officer.
Federal Register Delays	Project delays, additional expenses, and increased outreach needs.	CTP (SRWMD) will identify a range of acceptable Federal Register publication dates and align project schedules to minimize risk of delays.
Project Coordination Delays	Project timeline is delayed due to outside products such as leverage data or models not being available when anticipated.	Maintain contact with all outside sources and stay up to date with any anticipated delays in order to enter them into the project timeline and planning with as much warning as possible. Helps to align resources when actually needed and avoid un-planned downtime.

**Task 1.3 – Project Status Calls**

AECOM will participate in routine conference calls with FEMA, SRWMD, and other contractors working for FEMA and SRWMD.

**Task 2. Perform Community Engagement and Project Outreach**

The activities listed below are intended to support on-going project efforts that foster working relationships between Federal, state, tribal and local governments with private and public interests to reduce the impact of natural disasters where a community's interaction with a natural hazard may be altered or averted. AECOM will work with SRWMD and the Regional Office during the initiation of this activity to develop the Project Outreach and Communication Plan (POCP) to support the implementation of the mapping project. The Regional Office will have access to many customizable outreach tools that have been developed for this process to support each touchpoint that the PMT has with the community.

It is expected that including these approaches will assist in increased risk awareness and the development of actionable measures to reduce risk within the Flood Risk Project footprints. These activities will be implemented to:

- Increase the understanding of natural hazard risk within a community.
- Support local efforts to reduce natural hazard risk within a community or watershed area.
- Increase the effectiveness of meetings and engagement opportunities with communities throughout the Risk MAP life cycle.

### **Task 2.1 - Project Initiation Meeting and 30-Day Review of Proposed Models**

This meeting will serve to discuss the project scope and timeline, set expectations for communities with regard to risk communication, share methods and data to be used in the mapping efforts if included in the project, and answer local questions about the project. If regulatory product updates are included, this meeting can also serve as the required coordination with communities regarding the expected results (increasing/decreasing flood hazard areas/depths, etc.). AECOM will facilitate this in-person meeting.

In addition, per FEMA requirements, before the data development tasks supporting a Flood Risk Project that includes a FIRM update begin, the communities affected by the flood insurance study update must be notified of the planned model or models to be used. The affected communities will be provided with a 30-day period beginning upon notification to consult with FEMA, SRWMD, and AECOM regarding the appropriateness of the mapping model or models to be used. The results of the consultation do not necessarily guarantee that a change will be made. AECOM will provide the initial notification of communities as a lead-up to the project initiation meeting, facilitate coordination throughout the 30-day review, and document decisions for SRWMD and FEMA.

### **Task 2.2 – Flood Risk Review Meeting and 30-Day Review of Completed Models, Work Maps, and Database**

AECOM will develop an engagement plan to reach the key community stakeholders, such as local officials and community partners, during the Flood Risk Review period. The Flood Risk Review Meeting will serve to provide communities with engineering data and drafts of Flood Risk products, collect feedback, and revise as needed. It will also provide the opportunity to show how the datasets and outreach tools can help communities become more resilient by understanding risk data, communicating about risk, prioritizing mitigation actions and improving mitigation plans, especially risk assessments and mitigation strategies. AECOM will perform the planning, presenting, and facilitating discussions of data inputs and engineering models used for flood studies with community officials. In addition, draft work maps showing initial study results will be presented during the meeting. This meeting will also be used to kick off the 30-day review of materials at the workmap stage (workmap, associated models, etc.) required.

Per FEMA requirements, when a Flood Risk Project will include new or updated FIRM panels, the communities must be provided with access to the draft FIRM database and other contributing data, as requested, by the conclusion of Quality Review 1. The communities must also be provided with a 30-day period during which the communities may provide data to FEMA, SRWMD, and AECOM that can be used to supplement or modify the existing data. AECOM will provide the initial notification of the 30-day review period and will incorporate community-submitted data into the project, as appropriate.

In order to be directly incorporated to the study, data or information submitted must be consistent with prevailing engineering principles or demonstrate scientific incorrectness by one or more of the following:

- Identifying and providing documentation of the methods or assumptions purported to be scientifically incorrect.
- Providing supporting data as to why the methods or assumptions used are not appropriate.
- Providing new or alternative analysis and mapping data utilizing methods consistent with prevailing engineering principles and meeting FEMA's Standards.
- Providing technical information or data indicating why the provided new or updated analysis and mapping should be accepted as more correct.

### **Task 2.3 - Public Outreach Meeting Prior to Preliminary Map Release.**

This meeting will serve to provide communities with drafts of Preliminary Flood Risk products, collect feedback, and uncover/investigate any issues prior to submitting Preliminary Maps. It will also provide another opportunity to show how the datasets and outreach tools can help communities become more resilient by understanding risk data, communicating about risk, prioritizing mitigation actions and improving mitigation plans, especially risk assessments and mitigation strategies. AECOM will perform the planning, presenting, and facilitating discussions of the proposed preliminary maps with the public; build acceptance of the map revisions, and identify and address potential problems prior to entering formal preliminary map release and comment periods.

### **Task 2.4 - Television and Radio Outreach**

SID 622 requires that the Project Team, in coordination with the appropriate staff in the Regional Office of External Affairs, other FEMA staff, and community officials, engage with local radio and television outlets in an effort to further educate property owners about flood map revisions and appeals processes. AECOM will work with SRWMD staff to develop two public service announcements, one at the onset of the appeals period and one at the onset of the community compliance period.

### **Task 2.5 - Resilience Meeting**

The meeting will provide a comprehensive view of mitigation planning, mitigation options available to communities, sharing of success stories, and potential mitigation actions that communities can initiate. AECOM will perform the planning, presenting and facilitation of community discussions related to mitigation plan status, community risks and hazards, local mitigation action opportunities and best mitigation practices. Mitigation strategies that communities have implemented or progressed on since Discovery should be documented at, or before, this meeting. In addition, discussions about a community's outreach plans during this meeting help enable local officials to begin or strengthen local risk communication. AECOM will prepare for and facilitate this meeting by performing the following tasks:

- Conduct listening sessions with community stakeholders to understand their mitigation priorities and inform the Resilience Meeting agenda.
- Foster relationships between community stakeholders and Federal and State partners to improve the local ability to take mitigation action.
- Reach out to meeting invitees through personalized follow-up emails and calls.
- Stand up a Resilience Team composed of FEMA Regional staff and Subject Matter Experts to prepare for the Resilience Meeting and support the community.
- Brief local elected officials to promote understanding about the importance of community-wide resilience and the community's flood risk.
- Facilitate meeting.
- Provide community-specific applications/ explanations of Flood Risk Products to educate community officials on how to leverage the products to achieve or inform mitigation projects.
- Coordinate with other key stakeholders, such as government agencies and nonprofits, who will work with the community towards resilience in a "Resilience Marketplace".
- Provide the community with a media relations strategy template and sample tools (e.g., media advisory, talking points) to promote community understanding of flood risk and further the discussion of important community mitigation projects.
- Create a Resilience Report and dataset.
- Update the Mitigation Action Tracker with identified and/or advanced community mitigation activities.

### **Task 2.6 - Final Consultation and Coordination Officer (CCO) Meeting and Public Meeting Support**

These meetings will provide local officials an opportunity to verify the appropriate revisions have been made to previously demonstrated information, take ownership of the products, and deliver the results of the project to the local citizenry. AECOM will perform the planning, presenting and facilitating of discussions with community officials for awareness and acceptance of regulatory products.

The purpose of the CCO meeting will be review data inputs to a flood study, preview changes to preliminary FIRM data and maps, discuss newly identified flood risk and community actions to reduce risk, and provide information about the appeals period, map adoption, and insurance impacts. AECOM will perform the following tasks:

- Develop or enhance relationships with key community stakeholders to increase the reach of messages about risk and to improve the local will and ability to take mitigation actions.
- Drive attendance: Reach out to meeting invitees through personalized follow-up emails and calls.
- Facilitate meeting.

AECOM will also support SRWMD and the local officials at the Public Meetings for a total of 40 manhours.

### **Task 2.7 - Status Reports**

In addition to Risk MAP meetings, to facilitate information sharing and a continuing dialogue between the PMT and the community, AECOM will provide communities with regular status reports outlining the current project status, key accomplishments to date, identified risks, if any, and next steps including estimated next meeting date and meeting content (template to be provided from FEMA or can be created by Mapping Partner). These status reports will be provided to FEMA for review before electronic distribution. Project update status reports will be distributed to communities at mid-points between

the meetings above, and between the Final Meeting and effective date, to help introduce and prepare the communities for upcoming discussions.

### Task 3. Develop Flood Risk Products

Risk assessment data and analyses are defined as processes for evaluating the risk associated with a hazard and using that information to make informed decisions on the appropriate ways to reduce the impacts of the hazard on people and property. AECOM will develop Flood Risk Products for study areas as listed in Table 1.5.

**Table 1.5 Flood Risk Products**

	<b>Flood Risk Product / Data Set</b>	<b>New Flood Hazard Analysis Conducted</b>	<b>No New Flood Hazard Analysis Conducted</b>
Flood Risk Dataset	Flood Risk Database	Required per MAS 18.15.f	Required per MAS 18.15.f
	Changes Since Last Firm	Required per MAS 18.15.f	Not Applicable
	Water Surface Elevation Grids	Required per MAS 18.15.f	Not Applicable
	Flood Depth Grids	Required per MAS 18.15.f	Not Applicable
	Percent Annual Chance & Percent 30-year Chance Grids	Required per MAS 18.15.f	Not Applicable
	Flood Risk Assessment	Required per MAS 18.15.f	Required per MAS 18.15.f
	Areas of Mitigation Interest	Required per MAS 18.15.f	Required per MAS 18.15.f
	Flood Risk Map	TBD in Discovery	TBD in Discovery
	Flood Risk Report	TBD in Discovery	TBD in Discovery

### Task 4. Perform Field Survey

AECOM shall conduct a detailed field reconnaissance of the specific study area to determine conditions along the floodplain(s), types and numbers of hydraulic and/or flood-control structures, apparent maintenance or lack thereof of existing hydraulic structures, locations of cross sections to be surveyed, and other parameters needed for the hydrologic and hydraulic analyses.

AECOM shall conduct field surveys, including obtaining channel and floodplain cross sections, identifying or establishing temporary or permanent bench marks, and obtaining the physical dimensions of hydraulic and flood-control structures.

### Task 5. Develop Topographic Elevation Data

AECOM shall obtain topographic data for the floodplain areas to be studied including overbank areas. These data will be used for hydrologic analysis, hydraulic analysis, coastal analysis, floodplain boundary delineation and/or testing of floodplain boundary standard compliance. AECOM shall gather availability, currency, and accuracy information for existing topographic data covering the affected communities in his project. AECOM shall use topographic data for work in this project only if it is better quality than that of the original study or effective studies. AECOM will ensure that the FEMA Geospatial Data Coordination Policy and Implementation Guide is followed and the data obtained or to be produced are documented properly as per those policies and guidelines. AECOM shall utilize the data collected under this task and via field surveys to create a best available digital elevation model for the subject flooding sources.

AECOM shall use existing topographic data for the areas so described in the Table 1.6 Summary of Topographic Data table.

In addition, AECOM shall address the concerns or questions regarding the topographic data development that are raised during the Independent QA/QC review.

**Table 1.6 Summary of Topographic Elevation Data**

<b>Beginning and End Points of Topo Data Collection</b>	<b>Data Type and Post Spacing</b>	<b>Accuracy and Year Acquired</b>	<b>Source/Data Vendor</b>	<b>Contact Information</b>	<b>Use Restrictions</b>

Upper Suwannee Watershed	DEM 5-ft pixels based on LiDAR collected per FEMA/USGS standards	RMSE +/- 0.6 ft bare earth Collected in 2009-2017	SRWMD	Paul Buchanan SRWMD	None
Lower Suwannee Watershed	DEM 5-ft pixels based on LiDAR collected per FEMA/USGS standards	RMSE +/- 0.6 ft bare earth Collected in 2009-2017	SRWMD	Paul Buchanan SRWMD	None

## Task 6. Prepare Base Map

AECOM shall prepare and provide the digital base map, including:

- Obtain digital files of the base map. In coordination with the partner who performed Project Discovery, ensure that the FEMA Geospatial Data Coordination (GDC) Policy and Implementation Guide are followed.
- Secure necessary permissions from the base map source to allow FEMA’s use and distribution of hardcopy and digital map products using the digital base map, free of charge.
- Review and supplement the content of the acquired base map to comply with FEMA standards.
- For the base map components that have a mandatory data structure, convert the base map data to the format required in FEMA standards.
- Certify that the digital data meets the minimum standards and specifications that FEMA requires for FIRM production.

In addition, AECOM shall address concerns or questions regarding the base map that are raised during the Independent QC review, or during the MIP Validate Content Submission Process. Orthophotos, hydrography, PLSS lines, and corporate boundaries will be acquired from SRWMD and verified to be accurate and acceptable for use in FEMA projects.

## Task 7. Develop Hydrologic Data

AECOM shall perform hydrologic analyses for the flooding source(s) identified in Table 1.7: Summary of Hydrologic Analyses. AECOM will perform the determination of peak flood discharges, using rainfall-runoff models, regression equations, gage analysis, and hydrograph development to support the level of detail required for the project. AECOM shall calculate peak flood discharges and/or flood hydrographs for the 10%, 4%, 2%, 1%, “1% plus” and 0.2% annual chance events using the analysis method listed in Table 1.7. The “1-percent-plus”, or “1%+”, annual chance flood elevation will be modeled and included on the flood profile. While not used for regulatory or insurance purposes, this flood event will be calculated to help illustrate the variability range that exists between the regulatory 1-percent-annual-chance flood elevation and a 1-percent-annual-chance elevation that has taken into account an additional amount of uncertainty in the flood discharges (thus, the 1% “plus”). For flooding sources whose discharges are estimated using regression equations, the 1%+ flood elevations will be derived by taking the 1-percent-annual-chance flood discharges and increasing the modelled discharges by a percentage equal to the average predictive error for the regression equation. For flooding sources with gage- or rainfall-runoff-based discharge estimates, the upper 84-percent confidence limit of the discharges will be used to compute the 1%+ flood elevations.

These six flood discharges will be the basis for subsequent Hydraulic Analyses performed under this project. In addition, AECOM will be responsible for addressing comments resulting from the independent QC, including resubmittal of deliverables as needed to pass the technical review.

AECOM shall document automated data processing and modeling algorithms and provide the data to FEMA to ensure these are consistent with FEMA standards. Digital datasets (such as elevation, basin, or land use data) are to be documented and provided to FEMA for approval before performing the hydrologic analyses to ensure the datasets meet minimum requirements.

The CTP will compare the calculated, or computed, discharge with discharge determined from reliable gage data, if any. This comparison will only be done at locations where the two discharge values are considered representative of the same flooding source. Results of this comparison will be used in making a professional judgment for determining the discharge to be used for the hydraulic analysis.

**Table 1.7 Summary of Hydrologic Analyses**

Study Area / Flooding Source	Method	Square Miles of Leveraged Hydrology	Square Miles of New Hydrology
To be determined in Discovery			

### Task 8. Perform Hydraulic Analyses

AECOM shall perform hydraulic analyses as described in Table 1.8: Summary of Hydraulic Analyses. AECOM will establish and review regulatory floodways and flood elevations for the 10%, 4%, 2%, 1%, "1% plus" and 0.2% annual chance events based on flood discharge rates computed under Develop Hydrologic Data.

The hydraulic methods used for this analysis may include base level and/or enhanced level hydraulic modeling. The base level will use an automated hydraulic model and use the best available elevation data to model the 10%, 4%, 2%, 1%, "1% plus" and 0.2% annual chance events. It may not include field surveys, floodways, or mapped Base Flood Elevations (BFEs) but will include mapped A or AE zones per Table 1.8. The enhanced level may include field surveys, floodways, and the 10%, 4%, 2%, 1%, 1% plus and 0.2% annual chance events, using methods described in Table 1.8. AECOM, at a minimum, must delineate the floodplain and floodway, if applicable, boundaries of the base flood. AECOM must also delineate the floodplain boundaries associated with the 0.2-percent-annual-chance flood, if it is calculated.

AECOM shall use the cross-section and field data collected during Perform Field Survey and the topographic data collected during the Develop Topographic Data, when appropriate, to perform the hydraulic analyses. The hydraulic analyses will be used to establish flood water surface elevations, floodplain extents, and regulatory floodways for the listed study area or flooding sources.

If applicable, AECOM shall use the FEMA CHECK-2 or cHECK-RAS checking program to verify the reasonableness of the hydraulic analyses. To facilitate the independent QA/QC review, AECOM shall provide explanations for unresolved messages from the CHECK-2 or cHECK-RAS program, as appropriate. In addition, the CTP shall address concerns or questions regarding the hydraulic analyses that are raised during the independent QA/QC review including resubmittal of deliverables as needed to pass the technical review.

**Table 1.8 Summary of Hydraulic Analyses**

Study Area / Flooding Source	Hydraulic Analysis Option	Total Miles of New Base Level of Enhanced Level Hydraulics	Description of Level of Study
To be determined in Discovery			

### Task 9. Perform Floodplain Mapping

AECOM shall perform floodplain mapping for the flooding sources studied within Tasks 7 and 8. AECOM will perform mapping of the 1% and 0.2% annual chance event floodplains and regulatory floodways based upon updated topographic data.

**Table 1.10 Summary of Floodplain Mapping**

Study Area / Flooding Source	Method	Mapping Type (A/AE)	Miles	Topographic Data Source
To be determined in Discovery				

AECOM shall incorporate the results of effective Letters of Map Change (LOMC) for affected communities on the FIRM and provide to the appropriate PTS the required submittals for incorporation into the National Flood Hazard Layer (NFHL). Also, the CTP shall address concerns or questions regarding Floodplain Mapping that are raised during the independent QA/QC review.

### Task 11. Develop FIRM Database

AECOM shall prepare the database in accordance FEMA standards and guidance, including relevant Technical Reference documents, for upload to the MIP. AECOM is responsible for confirming and/or obtaining revised or updated guidance from

the region. AECOM shall coordinate with the RSC to complete and submit the Key Decision Point (KDP) 2 form prior to Quality Review (QR) 1.

## Task 12. Produce and Distribute Preliminary Map Products

AECOM shall apply the final FEMA FIRM graphic and database specifications to the FIRM files produced under Floodplain Mapping for the panels identified in Table 1.11. This work shall include adding the required annotation, line pattern, area shading, and map collar information (e.g., map borders, title blocks, legends, and notes to user).

### Task 12.1 – Preparation of Preliminary SOMA

AECOM shall prepare a Preliminary Summary of Map Actions (SOMA) for the affected communities, if appropriate.

### Task 12.2 – Update CNMS Regional File Geodatabase

The CNMS Regional File Geodatabase is to reflect changes to the existing inventory applicable to scoped studies, study extents and attributes.

**Table 1.11 FIRM Panel Summary**

Watershed / Area of Study	County / Communities	Number of Revised Panels
Upper Suwannee	To be determined in Discovery	
Lower Suwannee	To be determined in Discovery	

The Distribute Preliminary Map Products task consists of the final preparation, review, and distribution of the Preliminary copies of the FIRM and FIS report and the Preliminary SOMA and Risk Assessment products to community officials and the general public for review and comment. AECOM shall prepare and submit the KDP3 required documentation to be reviewed and approved at both the FEMA Regional and Headquarters level. Preliminary distribution cannot begin until this process is approved at all levels.

### Task 12.3 - Preliminary Transmittal Letter Preparation

AECOM shall prepare letters and transmit the Preliminary copies of the FIRM and FIS report and related enclosures to the affected communities, other Project Team members, the State NFIP Coordinator, the FEMA Regional Office, and others as directed by FEMA. This letter may be prepared using the national or regional template with FEMA letterhead/logo and with FEMA signature only, or (when pre-approved by the Regional Office) on FEMA and CTP joint letterhead for signature by FEMA and the CTP.

### Task 12.4 - Distribution of Preliminary Package

AECOM shall distribute the Preliminary copies of the FIRM and FIS report, Preliminary SOMA (as applicable) and Risk Assessment products (as applicable) to the affected communities, all other Project Team members, the State NFIP Coordinator, the FEMA Regional Office, and others as directed by FEMA.

## Task 13. Post-Preliminary Map Production

The Post-Preliminary activity consists of completing the statutory, regulatory and administrative activities required to finalize the FIRM and FIS report after the Preliminary copies of the FIRM and FIS report have been issued to community officials and the public for review and comment. FEMA may audit or assist in these activities as necessary. The activities to be performed are summarized below. In addition, additional Stakeholder Engagement tasks and the Final (CCO) Meeting and Public Meeting are held during this time, as described in the Risk MAP Meetings Section of the Perform Community Engagement and Project Outreach task.

### Task 13.1 - News Release Preparation

AECOM shall use the MIP in accordance with FEMA standards to create Expanded Appeals Process (EAP) notices for studies that result in new or modified BFEs or base flood depths and/or new or modified flood hazard information, including additions

or modifications of any SFHA boundary, SFHA zone designation, or regulatory floodway within a community. FEMA, or its designee, shall perform QA/QC reviews of the FHD information for accuracy and compliance with FEMA format requirements.

### **Task 13.2 - Initiation of Statutory 90-Day Appeal Period**

When required, upon completion of a 30-day community comment period and/or final coordination meeting with the affected communities, the following activities are completed in accordance with the current version of the FEMA standards, appropriate guidance, and Document Control Procedures Manual:

- AECOM shall prepare and submit the KDP4 required documentation to be reviewed and approved at both the FEMA Regional and Headquarters level. FHD notice publication cannot begin until this process is approved at all levels.
- AECOM shall meet with the FEMA Regional Office of External Affairs, other FEMA staff, community officials, to discuss the mapping project and at a minimum provide a local PSA statement to local radio and television outlets to further educate property owners about appeals processes.
- AECOM shall prepare and deliver to FEMA, or its designee, the appropriate flood hazard determination notice(s) to be published in the Federal Register. FEMA standards and guidance shall be followed.
- AECOM shall send proposed Flood Hazard Determination notification letters and verify confirmation of receipt to meet FEMA standards and guidance, using the Appeal Start template to the community CEOs and floodplain administrators.
- AECOM shall ensure that news release notifications of Proposed Flood Hazard Determination changes are published in prominent newspapers with local circulation in accordance with 44 CFR Part 67.4.

FEMA, or its designee, shall perform QA/QC reviews of the Federal Register notice, community notification letters and news release notifications for accuracy and compliance with FEMA format requirements.

### **Task 13.3 - Resolution of Appeals and Comments**

AECOM shall review and resolve appeals and comments received during the 90-day appeal period in accordance with FEMA standards. For each appeal and comment, the following activities shall be conducted as appropriate:

- Prepare and mail acknowledgment letter on FEMA letterhead with FEMA signature following FEMA concurrence.
- Perform technical review of submitted information.
- Prepare interim communication letter(s) requesting additional supporting data, as needed.
- Perform revised analyses, if necessary, upon FEMA direction.
- Prepare a draft resolution letter for appeals and comments, on FEMA letterhead for FEMA signature, and (as necessary) revised FIRM and FIS report materials for FEMA review.
- Mail resolution letter(s) upon FEMA concurrence.
- Update CNMS as appropriate when resolving appeals/comments.
- Update the Risk Assessment Suite as needed (and directed by FEMA) for appeal resolutions.

### **Task 13.4 - Preparation of Special Correspondence**

AECOM shall, at the request of FEMA, respond to comments not received within the 90-day appeal period and before the maps are effective (referred to as "special correspondence") including drafting responses for FEMA review and finalizing responses for signature. AECOM shall mail the final correspondence (and enclosures, if appropriate) and distribute appropriate copies of the correspondence and enclosures upon authorization from FEMA. AECOM shall prepare all associated correspondence using FEMA letterhead and mail upon authorization by FEMA. When approved by FEMA, correspondence may be on joint FEMA-CTP letterhead and co-signed by FEMA and AECOM.

### **Task 13.5 - Revision and Finalization of FIRM and FIS Report**

If necessary, AECOM shall coordinate with FEMA to determine the appropriate level of effort to revise the FIRM and FIS report and shall distribute revised Preliminary copies of the FIRM and FIS report to the CEO and floodplain administrator of each affected community, all other Project Team members, the State NFIP Coordinator, the FEMA Regional Office, and others as directed by FEMA. AECOM shall finalize the FIRM and FIS, including incorporating effective Letters of Map Revision, in accordance with FEMA standards and guidance, and upload final products to the MIP for automated and visual National QRs (Quality Review 5 and Quality Review 7) in accordance with FEMA standards. All work must pass appropriate QRs prior to issuance of the Letter of Final Determination.

### **Task 13.6 - Processing of Letter of Final Determination**

AECOM shall prepare and submit the KDP5 required documentation to be reviewed and approved at both the regional and headquarters level. QRs 5, 6, 7 and processing of the Letter of Final Determination (LFD) cannot begin until this process is approved at all levels. AECOM should follow the regional submittal guidelines on all KDP5 packages as each region has their own processes set up to review this documentation. AECOM shall work with FEMA to establish the effective date for the FIRM and FIS report and shall prepare LFDs for affected communities. AECOM shall submit the LFD Package for Quality Review 6 per FEMA standards, in coordination with the Region and its designated contractor. FEMA, or its designated contractor, shall mail the final signed LFDs and enclosures and distribute appropriate copies of the signed LFDs. All work must pass the automated and visual National QRs (Quality Review 5 and Quality Review 7) and QR of the LFD package (Quality Review 6) prior to the distribution of the LFD letters.

### **Task 13.7 - Final SOMA Preparation**

AECOM shall prepare Final SOMAs for the affected communities with assistance from FEMA, or its designee, as appropriate.

### **Task 13.8 - Final Flood Hazard Determination Notice**

Typically, the Final Flood Hazard Determination Notice to be published in the Federal Register is generated from the Proposed Notice. In the event that updates or corrections are needed prior to publication of the final notice, AECOM shall prepare the appropriate notices and deliver those notices to FEMA, or its designee, for review and publication.

### **Task 13.9 - Processing of Final FIRM and FIS Report for Printing**

AECOM shall prepare final reproduction materials for the FIRM and FIS report and provide these materials to FEMA, or its designee, in accordance with FEMA standards and guidance for printing by the Map Service Center (MSC); please refer to the Data Capture Technical Reference. AECOM shall also prepare the appropriate paperwork to accompany the FIRM and FIS report and transmittal letters to the community CEOs. AECOM will submit these products for Quality Review 7 (QR7) and Quality Review 8 in accordance with FEMA standards and guidance. The products must pass QR7 prior to issuance of the LFD letters.

### **Task 13.10 - Revalidation Letter Processing**

AECOM shall prepare and distribute letters for FEMA signature to the community CEOs and floodplain administrators to notify the affected communities about Letters of Map Change for which determinations will remain in effect after the FIRM and FIS report become effective. AECOM shall update the MIP SOMA tool as necessary to prepare and submit the Revalidation Letters and Revalidation Docket to FEMA, or its designee, for review and approval prior to distributing the letters to communities. The Revalidation Docket and Letters must be submitted for review 4–5 weeks prior to the effective date and mailed to communities 2 to 4 weeks before the effective date. After distribution of the revalidation letters, AECOM shall send copies of the official dated letters to FEMA, or its designee, for submittal to the LOMC subscription service.

### **Task 13.11 - Archiving Data**

AECOM shall ensure that technical and administrative support data are packaged in the FEMA required format and stored properly in the library archives until transmitted to the FEMA Engineering Study Data Package Facility. In addition, AECOM will maintain copies of all data for a period of no less than three years from the submission of the Final Report for award management.

## **STANDARDS**

The standards relevant to this project are presented in FEMA Policy 204-078-1 Standards for Flood Risk Analysis and Mapping, Revision 7, dated November 29, 2016, located at <http://www.fema.gov/media-library/assets/documents/35313>. This Policy supersedes all previous standards included in the Guidelines and Specifications for Flood Hazard Mapping Partners, including all related appendices and Procedure Memorandums (PMs). Additional information and links to FEMA Technical References, Procedure Manuals, guidance documents, templates and other resources may be accessed and downloaded at <http://www.fema.gov/guidelines-and-standards-flood-risk-analysis-and-mapping>.

To facilitate the use of standards and related documents, users can access the FEMA Guidelines and Standards Master Index located here: [www.fema.gov/media-library/assets/documents/94095](http://www.fema.gov/media-library/assets/documents/94095). This index provides a cross-reference of documentation available for Flood Risk Projects, Letters of Map Change and related Risk MAP activities. The cross-referenced relationships are

organized and accessible through linkages for standards, guidance, technical references and templates. The master index is updated in coordination with the FEMA Policy Memo noted above. CTPs and their sub-awardees must comply with FEMA's Federal Regulation 44 CFR, specifically parts 65, 66 and 67, the Document Control Procedures Manual (available here: [www.fema.gov/media-library/assets/documents/6859](http://www.fema.gov/media-library/assets/documents/6859)), and the appropriate year CTP Notice of Funding Opportunity and Agreement Articles. CTPs shall also coordinate with their Regional office to determine additional standards that should be met.

## DELIVERABLES

AECOM will make the following products available to SRWMD by uploading the digital data to the MIP in accordance with the current Data Capture Technical Reference and Technical Support Data Notebook (TSDN) requirements where applicable.

### Task 1. Project Management

- Monthly Earned Value data reporting through the MIP with variance explanations to support management of technical mapping activities within specified time frame, for both Regulatory and Flood Risk Products.
- Management of SPI/CPI performance for an organization.
- Overall project Quality Management Plan including QA/QC maintenance information, such as maintaining a QA/QC log and providing a QA/QC approach to FEMA for review and approval.
- Management of adherence to scope of work and quality of work for an organization.

### Task 2. Community Engagement and Project Outreach

- A Project Communication Plan detailing outreach and coordination activities
- AECOM will upload relevant data to MIP Outreach tasks per the Standards above.
- Watershed/Community Assessment outputs, including logs of telephone discussions (if applicable)
- Meeting invitation, agenda, presentation slides (as requested), and meeting notes for FEMA review
- Action Identification and Advancement Plan
- Project update status reports for project communities
- AECOM will provide documentation of adherence with the requirements for the community 30-day review of proposed models and 30-day review of work maps, completed models, and associated information.

### Task 3. Develop Flood Risk Products

- Narrative of assumptions made and approaches taken for analysis.
- The Hazus system files (.hpr files).
- Global summary report.
- Direct damage and contents data used to populate tables in Flood Risk Report.
- Updated local parcel/building information, topographic data, etc. used in analysis.
- Description of data used that were not part of the default Hazus data sets.

### Task 4. Perform Field Survey

- A report summarizing the findings of the field reconnaissance
- Digital photographs of cross section locations and structures
- Digital sketches of cross section and structure data
- Documentation of the horizontal and vertical datum
- National Geodetic Survey data sheets for Network Control Points used to control topographic data acquisition and ground surveys
- Digital versions of draft text for inclusion in the FIS report
- Digital survey data consistent with the Data Capture Technical Reference
- Metadata file complying with the NFIP Metadata Profiles Specifications
- Support documentation
- Certification of Work
- TSDN Narrative
- FIRM Database files
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken as outlined in the approved QA/QC Plan.

### Task 5. Develop Topographic Elevation Data

- Bare Earth DEM

- Metadata file complying with the NFIP Metadata Profiles Specifications
- Support documentation and Certification of Work

#### Task 6. Prepare Base Map

- Metadata file complying with the NFIP Metadata Profiles Specifications;
- Digital base map files that comply with FEMA Standards;
- Written certification that the digital data meet the minimum standards and specifications;
- Digital versions of draft text for inclusion in the FIS report;
- Documentation that FEMA can use the digital base map;
- Documentation of the Horizontal and Vertical Datums as part of Base Map Project Narrative;
- Additional base map acquisition correspondence;

#### Task 7. Develop Hydrologic Data

- Digital copies of hydrologic modeling (input and output) files for the 10%, 4%, 2%, 1%, "1% plus" and 0.2% annual chance events.
- Digital hydrologic data consistent with the Data Capture Standards as described in the latest Technical Reference: Data Capture.
- FIRM Database files as described in the FIRM Database Technical Reference, Table 2.
- Metadata file complying with the latest Technical Reference: Metadata Profiles for Hydrology.
- Digital Summary of Discharges Tables presenting discharge data for the flooding sources for which hydrologic analyses were performed (for flooding sources to be mapped as Zone AE on the FIRM).
- Digital versions of draft text for inclusion in the FIS report.
- Digital versions of all backup data used in the analysis, including GIS data layers.
- A Hydrology Report summarizing the approach and results of the hydrologic analysis for each study area in Table 1.7.
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken during the hydrologic analysis as outlined in the approved QA/QC Plan.
- Written certification that the digital data meet the minimum standards and specifications.
- Written response to any comments resulting from the independent QA/QC review.
- If data is changed following the independent QA/QC review, then updated deliverables for the Develop Hydrologic Data task must be submitted to the MIP.

#### Task 8. Develop Hydraulic Data

- Digital copies of all hydraulic modeling (input and output) files for the 10%, 4%, 2%, 1%, "1% plus" and 0.2% annual chance events.
- Digital hydraulic data consistent with the Data Capture Standards as described in the latest Technical Reference: Data Capture.
- FIRM Database files as described in the FIRM Database Technical Reference, Table 2.
- Metadata file complying with the latest Technical Reference: Metadata Profiles for Hydraulics.
- Digital versions of draft text for inclusion in Section 5.2 Hydraulic Analyses of the FIS report.
- Digital Floodway Data Tables for each flooding source studied by detailed methods that is compatible with the FIRM database.
- Digital profiles of the 10%, 4%, 2%, 1%, "1% plus" and 0.2% annual chance events, representing existing conditions using the FEMA RASPLLOT program or similar software (for flooding sources studied by detailed methods).
- Digital versions of all backup data used in the analysis, including high water mark data for model calibration, GIS data layers, and any additional hydraulics data collected for use in the preparation of this Flood Risk Project.
- Complete set of digital work maps to be used at the Flood Engineering Review meeting. Work maps will include all appropriate GIS layers and be PDF files depicting effective and revised flooding, cross sections, streams and roads on an aerial base map.
- A Hydraulic Report summarizing the approach and results of the hydraulic analysis for each study area in Table 1.8.
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken during the hydraulic analyses as outlined in the approved QA/QC Plan.
- Written certification that the digital data meet the minimum standards and specifications.
- Where paper documentation is required by state law for professional certifications, the CTP may submit the paper in addition to a scanned version of the paper for the digital record. Please coordinate with the regional and/or state representative to verify state reporting requirements.
- Explanations for unresolved messages from the CHECK-2 or cHECK-RAS program, as appropriate.

- Written response to any comments resulting from the independent QA/QC review.
- If data is changed following the independent QA/QC review, then updated deliverables for the Develop Hydraulic Data task must be submitted to the MIP.
- Appropriate leverage information, including who paid for the data and the amount of data used by the Flood Risk Project.
- Demonstrated compliance with the Floodplain Boundary Standard, including a signed self-certification form.

#### Task 9. Perform Floodplain Mapping

- Digital floodplain mapping data consistent with the Data Capture Standards as described in the latest Technical Reference: Data Capture.
- A metadata file complying with the latest Technical Reference: Metadata Profile for floodplain Mapping.
- Support documentation and Certification of Work.
- FIRM database files as described in the FIRM Database Technical Reference, Table 2.
- Digital versions of input and output for any computer programs that were used consistent with the Data Capture Technical Reference and guidance (see draft language and coordinate with the Region regarding its appropriate usage). Digital versions of input and output for any computer programs that were used consistent with the Data Capture Technical Reference and guidance (see draft language and coordinate with the Region regarding its appropriate usage).
- A Summary Report that describes and provides the results of all automated or manual QA/QC review steps taken during the preparation of the FIRM as outlined in the approved QA/QC Plan.
- Any backup or supplemental information including supporting calculations and assumptions used in the mapping required for the independent QA/QC review of Floodplain Mapping consistent with the DCS (see draft language and coordinate with the region regarding its appropriate usage).
- Demonstrated compliance with the Floodplain Boundary Standard, including a signed self-certification form.
- An explanation for the use of existing topography for the studied reaches, if appropriate.
- Written summary of the analysis methodologies.
- Digital versions of draft text for inclusion in Section 6.3 Floodplain and Floodway Delineation of the FIS Report, Floodway Data Tables and updated Flood Profiles including all profiles and tables converted to the appropriate datum.
- If automated GIS-based models are applied, all input data, output data, intermediate data processing products, and GIS data layers shall be submitted consistent with the DCS (see draft language and coordinate with the region regarding its appropriate usage).
- Where paper documentation is required by state law for professional certifications, the CTP may submit the paper in addition to a scanned version of the paper for the digital record. Please coordinate with the regional and/or state representative to verify state reporting requirements.
- Updated CNMS data layer documenting flooding sources no longer deemed valid as a result of redelineation efforts.

#### Task 11. Develop FIRM Database

- FIRM database files, prepared in accordance with FEMA standards and in the required format(s);
- A metadata file complying with the FEMA NFIP Metadata Profile Specifications;
- Project Narrative;
- Certificate of Completion.

#### Task 12. Produce and Distribute Preliminary Map Products

- Preliminary FIRM database prepared in accordance with FEMA standards;
- Metadata file;
- FIS Report;
- Preliminary SOMA(s) prepared using the SOMA Tool on the MIP;
- Complete set of Preliminary FIRM panels showing all detailed flood hazard information at a suitable scale;
- Passing Quality Review report for:
  - QUALITY REVIEW 2: Auto Validation of Preliminary FIRM Database
  - QUALITY REVIEW 3: Visual Review of Preliminary Map Panels and FIS.
- Preliminary transmittal letters
- A preliminary copy of the FIRM and FIS report
- A self-certification document outlining the funded scope and comments per Region discretion.

Task 13. Post-Preliminary Processing

- Documentation that the appropriate Federal Register notices (Proposed and Final Flood Hazard Determinations) were published in accordance with FEMA requirements.
- Documentation that the news releases were published in accordance with FEMA requirements.
- Final community notification letters for starting the appeal period.
- Draft and final Special Correspondence (and all associated enclosures, backup data, and other related information) for FEMA review and signature, as appropriate.
- Draft and final Appeal and Comment acknowledgment, additional data, and resolution letters (and all associated enclosures, backup data, and other related information) for FEMA review and signature, as appropriate.
- Draft of the KDP 5 form for the Regions concurrence and submittal
- Draft and final LFDs (and all associated enclosures, backup data, and other related information)
- for FEMA review and signature.
- Passing Quality Review report for:
  - QUALITY REVIEW 4: Validate Proposed Flood Hazard Determination (FHD) Notice and CEO Letters
  - QUALITY REVIEW 5: Validate Final FIRM Database and FIRM Panels
  - QUALITY REVIEW 6: Check LFD Before Distribution
  - QUALITY REVIEW 7: Validate MSC Deliverables
  - QUALITY REVIEW 8: MSC Review of Final Deliverables
- FIRM digital files and final FIS report materials including all updated data tables and Flood Profiles.
- Metadata file.
- Provide one hard copy and digital FIRM products to the community.
- Paperwork for the final FIRM and FIS report materials.
- Transmittal letters for the printed FIRM and FIS report.
- LOMC Revalidation Letters, if appropriate.
- Completed, organized, and archived technical and administrative support data.
- Completed, organized, and archived case files and flood elevation determination dockets (FEDD files).
- CNMS Regional File Geodatabase to reflect changes to the existing inventory in scoped studies, study extents and attributes delivered to the respective FEMA Region or its designee within 15 days of LFD Issuance. A self-certification document outlining the funded scope and comments per Region discretion.

**ANTICIPATED SCHEDULE AND FEE**

The activities documented in this proposal shall be completed in accordance with the estimated start and end dates, as well as the estimated fees documented in Table 2.1. Both the schedule and the fee of individual tasks are highly dependent upon the results of Discovery.

Table 2.1 assumes that AECOM has received Notice to Proceed on or before January 1, 2020 and is subject to change based upon the results of Discovery. Should AECOM receive Notice to Proceed after January 1, 2020, changes to this schedule will be required as well. If changes to this schedule are required, AECOM shall coordinate with FEMA, SRWMD, and the other mapping partners in a timely manner.

**Table 2.1 – Project Activities Schedule and Fee**

<b>Activities</b>	<b>Estimated Start Date</b>	<b>Estimated End Date</b>	<b>Estimated Fee</b>
Upper Suwannee Watershed Risk MAP Tasks 1 – 13 listed above	January 2020	November 2023	\$642,461
Lower Suwannee Watershed Risk MAP Tasks 1 – 13 listed above	January 2020	November 2023	\$699,963
Total Not-to-Exceed Cost of Proposal			\$1,342,423

## MEMORANDUM

TO: Governing Board  
FROM: Mathew Cantrell, Project Manager, Office of Agriculture and Environmental Projects  
THRU: Steve Minnis, Deputy Executive Director, Business and Community Services  
DATE: November 29, 2019  
RE: Approval to Enter into Contract with Grimmway Enterprises, Inc. for Agriculture Cost-Share Funding

### RECOMMENDATION

**Staff recommends the Governing Board authorize the Executive Director to enter into contract with Grimmway Enterprises, Inc. as part of the Florida Department of Environmental Protection and District Agricultural Cost-Share Program in the amount not to exceed \$68,400.**

### BACKGROUND

At the January 2015 Governing Board (Board) meeting, the Board authorized the Executive Director to execute an agreement with the Florida Department of Environmental Protection (FDEP) for agricultural water conservation, nursery water conservation, and nutrient management cost-share totaling \$3,660,000. The District is providing agricultural cost-share funds as match in conjunction with this program to agricultural producers. In addition, participating producers provide a cost-share match of 25 percent or more to this program.

This cost-share project is with Grimmway Enterprises, Inc. located in southwestern Suwannee County. This producer will install a centralized remote control system and remote controlling equipment on twenty-seven irrigation systems. These tools will increase the producer's management and monitoring of irrigation events and irrigation systems.

The upgrades to these irrigation systems are expected to reduce water use by approximately 209,000 gallons per day at a cost to the District of \$0.09 per thousand gallons over the estimated life of the equipment. This project is located within the Suwannee River Basin Management Action Plan area and the Eastern Water Supply Planning Area.

The total project cost is estimated to be \$91,200.00. The District will contribute \$68,400 or approximately 75% of the equipment cost. The applicant's portion of these items will be \$22,800.00 or 25% of the equipment cost. Exhibit A is a breakdown of the items being cost-shared. Funding for this project is included in the Fiscal Year 2019-2020 Adopted Budget under account code 51-2586-7-2400-06-07.

MC/tm  
Attachment

**Exhibit A – Itemized List**

<b>Producer</b>	<b>Item</b>	<b>Maximum Cost-Share Amount</b>	<b>Quantity</b>	<b>SRWMD Total</b>	<b>Producer Share</b>	<b>Water Conservation (mgd)</b>
Grimmway Enterprises, Inc.	Remote Control	\$2,200	27	\$59,400	\$19,800	0.209
	Centralized Remote Control System	\$9,000	1	\$9,000	\$3,000	
<b>Project Total:</b>				<b>\$68,400</b>	<b>\$22,800</b>	<b>0.209</b>

MEMORANDUM

TO: Governing Board  
FROM: Patrick Webster, Chief, Office of Agriculture and Environmental Projects  
THRU: Steve Minnis, Deputy Executive Director, Business and Community Services  
DATE: November 29, 2019  
RE: Authorization to Enter into Agreements with Cooperators for Alternative Water Supply Grant Projects

RECOMMENDATION

**Staff recommends the Governing Board enter into agreements with cooperators for alternative water supply projects.**

BACKGROUND

On November 12, 2019, the Governing Board authorized the Executive Director to enter into agreements with Florida Department of Environmental Protection (FDEP) to receive alternative water supply (AWS) grant funds and to enter into agreements to implement the projects.

The District has executed agreements with FDEP for AWS funding for Pivot Retrofits, Groundwater Recharge Wetland, Public Supply Efficiency Improvements, and Lake Butler Wastewater Treatment Facility AWT Upgrade Phase 1.

Attached is a list of the four projects approved for state AWS grant funding. Funding for these projects is included in the Fiscal Year 2019-2020 Adopted Budget.

PW/tm  
Attachment

SRWMD FY 2019-2020 ALTERNATIVE WATER SUPPLY GRANTS

Project Name	Cooperator	FDEP Grant Amount	Local Match	Total Funding for Project	Project Description
Pivot Retrofits	Agricultural Producers	\$500,400	\$55,600	\$556,000	Retrofit up to 60 pivots at 90% cost-share during first year as determined by a mobile irrigation lab evaluation. It is anticipated this is a yearly request to be funded over an eight (8) year period. This project is estimated to reduce groundwater pumping by 1.1 MGD.
Groundwater Recharge Wetland	GRU	\$1,000,000	\$1,000,000	\$2,000,000	GRU proposes to construct a groundwater recharge wetland southwest of the Oakmont Subdivision in Alachua County using reclaimed water from the Kanapaha Water Reclamation facility. Capacity is designed for long term growth. Estimated 3-5 MGD water recharge at completion of all phases. Phase I will be the pre-acquisition geotechnical evaluation; site selection; and land acquisition sized to accommodate the wetland and estimated recharge goals. Estimated costs for design, permitting and construction will require \$5,000,000 of funding over future years through additional phases.
Public Supply Efficiency Improvements	Municipal Public Water Supply Entities	\$500,000	\$0	\$500,000	Infrastructure and conservation improvements to reduce water loss based on water audit information and recommendations. Anticipated locations are Hampton Municipal Water Supply, University Oaks Subdivision in Levy County, and various residential properties in Alachua County. Additional projects are located in the NFRWSP. Reducing water loss to 10% will reduce groundwater pumping and support the NFRWSP and MFLs in the Santa Fe and Suwannee Rivers.
Lake Butler Wastewater Treatment Facility AWT Upgrade Phase 1	Lake Butler, City of	\$3,000,000	\$0	\$3,000,000	The existing WWTF (FLA118338) operates above the permitted 0.7 MGD capacity and without nitrogen removal AWT capabilities. The City proposes to construct a new 1.0 MGD WWTF to AWT treatment standards over three phases. The new WWTF will be constructed on the same property as the existing plant. As part of this project the effluent will be further polished in a constructed wetland prior to aquifer recharge. Reuse water system and storage provided to adjacent prison, modifications & improvements to spray field. Phase 1 includes permitting and design for the WWTF, treatment/recharge wetlands, reuse water system & spray field modifications. This project is estimated to make 1.0 MGD of water available at completion.
TOTAL		\$5,000,400			

Legend:

- AWT - Advanced Waste Treatment
- AWTF - Advance Waste Treatment Facility
- NFRWSP - North Florida Regional Water Supply Plan
- MGD - Million Gallons per Day
- WWTF - Waste Water Treatment Facility

## MEMORANDUM

TO: Governing Board  
FROM: Bill McKinstry, Chief, Office of Land Management  
THRU: Tom Mirti, Deputy Executive Director, Water and Land Resources  
DATE: November 30, 2019  
SUBJECT: District Land Management and Twin River State Forest Activity Summary

District road contractors completed work on the Goose Pasture Tract and moved to the Cabbage Grove Tract.

Timber harvest contractors continue timber harvesting on the Cabbage Creek and Roline tracts.

Surveyors completed the easement survey on the Jennings Bluff Tract.

Ryan Sims attended the Groundcover Restoration Workshop sponsored by the Longleaf Alliance.

District contractors are mowing public use, secondary, and administrative roads in the Northwest Region.

Bill McKinstry and Ryan Sims attend the Conifex Sawmill Tour and Herbicide Workshop sponsored by the Society of American Foresters.

Edwin McCook presented "A Journey Down the Suwannee River" to Paddle Florida at the Dowling Park River Camp.

The contracted work for the Florida Wildlife Commission Uplands Program on Twin River State Forest (TRSF), which was awarded to Friends & Family Environmental Services, has been completed. This work included retreating 11 acres of chinaberry, mimosa propagules, and Chinese wisteria on the Deese tract.

The Florida Forest Service (FFS) completed firebreak establishment for all of the planned dormant season prescribed burn areas on TRSF. The dormant season for TRSF for the Fiscal Year 2019-2020 burn plan includes 437 acres (FFS owned) and 1,250 acres (SRWMD owned) in total.

Additional plots were installed and measured for the ongoing annual forest inventory on TRSF.

Road improvement work was performed on the Chitty Bend East Tract. This included regrading, installing geoweb fabric and additional limerock base to several areas "potholes" along the primary forest road.

Work was performed by the FFS to remove formerly herbicide-treated hardwoods, in a longleaf pine stand, that was falling into the county grades along River Road and Wagon Wheel Road on the Mill Creek South Tract of TRSF.

The attached report summarizes the status of current District and TRSF activities for the preceding month.

WVM/pf

**Vegetation Management Projects:**

The following work was completed during the reporting period: approximately **96** acres of woods mowing was completed on various tracts throughout the District. **100** acres of roller chopping work was completed on the Mallory Swamp Tract. Vegetation management work was done for fuel reduction, natural community restoration, and wildfire mitigation purposes.

Activity Table - Vegetation Management (10/1/2019 - 11/13/2019)

	ACTIVITY	ACRES		MILES	
		Planned	Complete	Planned	Complete
<b>FISCAL YEAR 2020</b>	<b>Herbicide</b>	500	<b>0</b>	0	<b>0</b>
	<b>Roller Chop</b>	1,000	<b>100</b>	0	<b>0</b>
	<b>Woods Mow</b>	720	<b>96</b>	0	<b>0</b>
	<b>Ditch Mow</b>	0	<b>0</b>	32	<b>0</b>

**Prescribed Fire Program:**

- Contractors conducting prescribed burns on District lands this year include B&B Dugger (B&B), Natural Resource Planning Services (NRPS), Schmidt Reforestation Services (SRS), and Wildlands Services (WS). Also, included in this report are the acres the Florida Forest Services burns on Twin Rivers State Forest (TRSF). When available, the Florida Forest Service (FFS) will provide a crew to burn additional acres on both District tracts and Twin Rivers State Forest.
- The following table provides information on the Prescribed Burn Program through November 13, 2019. **158 acres were burned during the reporting period.**

**Summary Table FY 2019-2020**

	<b>2020 Target Acres</b>	<b>Acres Complete</b>
SRWMD	13,000	158.0
FFS TRSF	2,200	0.0
<b>TOTAL</b>	<b>15,200</b>	<b>158.0</b>

***FY 2019-2020 Activity Table (10.1.2019 – 11.13.2019)***

<b>TRACT</b>	<b>COUNTY</b>	<b>B&amp;B</b>	<b>NRPS</b>	<b>WS</b>	<b>SRS</b>	<b>FFS COOP</b>	<b>TOTAL SRWMD Acres</b>	<b>TOTAL TRSF Acres</b>	<b>TOTAL WILDFIRE Acres</b>
<b>Goose Pasture</b>	<b>Jefferson</b>	158.0					158.0	0.0	0.0
<i>Sub-total for Period</i>		158	0	0	0	0	158.0	0	0.0
<i>Previous Acres Burned</i>		0	0	0	0	0	0	0	0.0
<b>TOTAL ACRES</b>		<b>158</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>158.0</b>	<b>0</b>	<b>0.0</b>

**Invasive Plant Monitoring Program**

Approximately 110 invasive plant infestations are planned to be monitored and/or treated by District staff in Fiscal Year 2019-2020. **68 infestations were monitored/treated during the reporting period.**

**Activity Table - Invasive Plant Treatments (10.1.2019 – 11.13.2019)**

	<b>Activity</b>	<b>Number of Infestations</b>	
		Planned	Complete
<b>Fiscal Year 2020</b>	<b>Invasive Plant Monitoring/Treatment</b>	<b>110</b>	<b>68</b>

**Conservation Easement Monitoring**

- No Activity

## Timber Sales

Sale	Contract	Acres	Tons Harvested	Revenue	Status	Contract End Date
Christian Chipping #1	17/18-220	121	8,890	\$61,467.01	Sale Complete	June 19, 2019
Fort White Wellfield #1	18/19-028	62	4,758	\$108,293.85	Sale Complete	November 7, 2019
Mattair Springs #5	18/19-034	86	4,928	\$51,404.17	Sale Complete	December 2, 2019
Little River #4	18/19-042	24	824	\$13,514.82	Sale Complete	December 19, 2019
Osteen #1	18/19-043	33	2,348	\$49,816.03	Sale Complete	December 19, 2019
Roline #1	18/19-051	160			Harvest Active	January 14, 2020
Withlacoochee #3	18/19-072	283			Harvest Inactive	January 14, 2020
Cabbage Creek #1	18/19-068	373			Harvest Active	January 15, 2020
Steinhatchee Falls #1	18/19-133	104			Harvest Inactive	March 1, 2020
Gar Pond #4	18/19-186	93			Harvest Inactive	June 5, 2020
Westwood West #3	18/19-204	345			Harvest Inactive	July 15, 2020
Ellaville #17 Emergency	18/19-224	55	2,739	\$46,675.71	Sale Complete	October 28, 2019
Wolf Creek #1	19/20-011	72			Harvest Inactive	October 2, 2020
Gar Pond #5		137			Harvest Inactive	October 28, 2020
Ellaville #18		126			Contract Pending	
Natural Well Branch #1		240			Contract Pending	

MEMORANDUM

TO: Governing Board  
FROM: Tom Mirti, Deputy Executive Director, Water and Land Resources  
DATE: November 30, 2019  
RE: Authorization to Execute a Contract for the Sale of Timber with Williams Timber Inc. for the Natural Well Branch #2 Timber Sale

RECOMMENDATION

**District staff recommends the Governing Board authorize the Executive Director to execute a contract for the sale of timber with Williams Timber Inc. for the Natural Well Branch #2 timber sale.**

BACKGROUND

On November 6, 2019 the District issued an Invitation to Bid (ITB 19/20-005 WLR) for timber located on the Natural Well Branch Tract in Taylor County. The timber offered for sale is 239 acres of Calendar Year 2000 planted slash pines and natural hardwoods. This harvest is a logger select pine thinning and hardwood removal that will reduce the number of diseased or suppressed trees and allow the highest quality trees to continue growing. The reduction of pine density will reduce the likelihood of a pine beetle infestation. The harvest will also improve ecological conditions and wildlife habitat by allowing more sunlight penetration to the forest floor, enhancing the production of groundcover.

Bid responses were received on November 20, 2019. Bids were received from three companies as indicated below. The bid calculation revenue is based on the District estimated volumes of pine pulpwood, pine chip-n-saw, hardwood pulpwood, and pine topwood on the proposed harvest acreage.

<b>Bidder</b>	<b>City</b>	<b>Bid Calculation Revenue</b>
Williams Timber Inc.	Perry, Florida	\$206,054.00
Boland Timber Company	Perry, Florida	\$189,255.00
H. B. Tuten Jr. Logging	Perry, Florida	\$188,612.50

Williams Timber Inc. bid was \$16.09/ton for pine pulpwood, \$26.07/ton for pine chip-n-saw, \$4.00/ton for hardwood pulpwood, and \$16.09/ton for pine topwood.

SC/pf

## MEMORANDUM

TO: Governing Board

FROM: Darlene Velez, Chief, Office of Water Resources

THRU: Tom Mirti, Deputy Executive Director, Water and Land Resources

DATE: November 30, 2019

RE: Agricultural Water Use Monitoring Report

### BACKGROUND

In September 2012, the District began a program of water use monitoring for agricultural water use reporting on wells of 8" diameter or greater. Where possible, agricultural water use is estimated using monthly power consumption records provided by the electrical power provider. Estimation by power use is the most cost-effective method of water use reporting. To date, farmer agreements authorizing the District to receive power usage reports directly from the cooperatives are in effect on 657 (124.6 MGD) monitoring points.

Not all withdrawal points are suitable for estimation using power consumption. Diesel-powered pumps and complex interconnected irrigation systems still require direct methods of monitoring. The District employs telemetry to conduct water use monitoring on diesel-power systems. There are currently 293 (54.1 MGD) telemetry systems installed by the District for this purpose.

Some withdrawal points have very limited use and are monitored by individual site visits, typically less than 0.05 MGD each. There are currently 395 (28.9 MGD) limited-use monitoring points in the District. Some users monitor their water use and report that data to the District. There are currently five (0.4 MGD) self-monitored points.

To date, the District has permitted 1,698 (243.5 MGD) irrigation wells which include a water use monitoring condition, of which 1,403 (214.4 MGD) wells are active, i.e., the wells have been drilled already. Of the 1,403 active wells, 1,352 (208.3 MGD) are being monitored as of November 15, roughly 96.4% of existing active wells (97.1% of allocation) with water use permit monitoring conditions.

Of the remaining estimated 52 (6.2 MGD) active stations that currently will require water use monitoring, 14 (0.9 MGD) are diesel- or gas-powered systems requiring District telemetry, 34 (5.0 MGD) are electric systems, and four (0.3 MGD) systems still require identification. There are 286 (29.1 MGD) proposed stations (that is, the wells are yet to be drilled); 68 (4.8 MGD) are expected to be diesel or gas, 173 (20.9 MGD) are expected to be electric, and 44 (3.4 MGD) are yet to be determined.

DSV/pf

MEMORANDUM

TO: Governing Board  
FROM: Hugh Thomas, Executive Director  
DATE: November 27, 2019  
RE: District's Weekly Activity Reports

Attached are the weekly District activity reports.

Please feel free to contact staff prior to the Governing Board meeting if you would like further information.

HT/rl  
Attachments



## Weekly Activity Report to Governing Board for October 20 – 26, 2019

### Executive / Management

- Virginia Johns, Hugh Thomas, Warren Zwanka, and Katelyn Potter attended a tour of the Seven Springs Plant in Gilchrist County.
- Hugh Thomas attended Cultiva Farms Open House in Jennings.

### Legislative and Community Affairs

- Katie Kelly participated in Week 3 of the 2020 Legislative Interim Committee meetings in Tallahassee.
- Steve Minnis attended the Suncoast Connector Task Force Meeting in Lecanto.
- Warren Zwanka attended the Northern Turnpike Connector Task Force Meeting in Lecanto.
- Steve Minnis, Leroy Marshall, Crissy Carr, Ashely Stefanik, and Stephanie Armstrong met with Columbia County staff and consultant regarding coordination of various permitting projects.

### Administration

- Steve Minnis and Steve Schroeder met with McB Pinehatchee representatives regarding the potential RO Ranch surplus properties.

### Finance

- Pam Shaw attended the 2019 Florida Government Finance Officers Association 2019 School of Government in Miramar.

### Land Management

- Ryan Sims attended the Groundcover Restoration Workshop sponsored by the Longleaf Alliance in Gainesville.
- District road contractors continued repairing roads on the Goose Pasture Tract.
- Timber harvest contractors continued timber harvesting at the Cabbage Creek and Roline tracts.
- District contractors finished fuel reduction mowing at Bay Creek Tract
- District contractors began roller chopping at Mallory Swamp Tract.
- District contractors are mowing public use, secondary and administrative roads in the Northwest Region which includes the areas of Jefferson, Madison, and Taylor counties.
- Bill McKinstry and Ryan Sims attend the Conifex Sawmill Tour and Herbicide Workshop sponsored by the Society of American Foresters in Cross City.
- Suwannee Bicycle Association held their annual Fat Tire Festival in White Springs riding off-road bike trails on District lands.

- Edwin McCook presented “A Journey Down the Suwannee River” to Paddle Florida at the Dowling Park River Camp.

### **Resource Management**

- Ashley Stefanik and Pam Sanders attended a Dam Safety Conference in Temple Terrace.

### **Water Resources**

- Darlene Velez attended the North Central Florida Regional Planning Council meeting in Lake City.

### **Minimum Flows and Minimum Water Levels**

- No reporting activity.

### **Water Supply**

- No reporting activity.

### **Hydrological Data**

- Tara Rodgers attended the Florida Certified Contract Managers Course (FCCM) in Tampa.

### **Agriculture and Environmental Projects**

- Pat Webster, Justin Garland, and Matt Cantrell attended the Interagency Ag Team meeting held at the District.
- The Project Review Team met with Lafayette County on potential cost-share opportunities for CR 300 and for Roosevelt Circle in Lafayette County.
- The Project Review Team met with GRU to review current and proposed cost-share projects.
- Kevin Flavin attended a meeting at Camp Blanding to discuss land management responsibilities for West Ridge parcels.
- Kris Eskelin performed a site visit to Rum Island and to the Levy Blue Springs project.
- Bob Heeke performed an inspection of the Mallory Swamp Tract in Lafayette County.
- Ben Glass attended the third session of the Natural Resources Leadership Institute in Fort Myers.

## Communications

- Weekly Top Performing Post

**Suwannee River Water Management District** is in Cedar Key, Florida

Published by Lindsey Garland (P) · October 25 at 2:26 PM · 🌐

The District assisted in funding the removal of an old wastewater collection and treatment system on a bridge in Cedar Key. The project entailed burying the system below the bridge to protect the pipes from boat collision and storm damage. 🚧💧 The project helps protect the water quality and environment in Cedar Key by preventing spills.



**Performance for Your Post**

**1,079** People Reached

**52** Likes, Comments & Shares

<b>50</b> Likes	<b>50</b> On Post	<b>0</b> On Shares
<b>1</b> Comments	<b>1</b> On Post	<b>0</b> On Shares
<b>1</b> Shares	<b>1</b> On Post	<b>0</b> On Shares

**90** Post Clicks

<b>42</b> Photo Views	<b>0</b> Link Clicks	<b>48</b> Other Clicks
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**NEGATIVE FEEDBACK**

<b>2</b> Hide Post	<b>0</b> Hide All Posts
<b>0</b> Report as Spam	<b>0</b> Unlike Page

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**Suwannee River Water Management District** Send Message

Government Organization

👍 **Get More Likes, Comments and Shares**  
Boost this post for \$20 to reach up to 3,700 people.

<b>1,079</b> People Reached	<b>142</b> Engagements	<a href="#">Boost Post</a>
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👤 Patricia Poole Wynn, Elayne Russell and 48 others · 1 Comment · 1 Share

👍 Like    💬 Comment    ➦ Share    🌐

## Announcements for the week of November 3 – 9, 2019

- Katie Kelly will attend the 2020 Week 4 Legislative Interim Committee meetings in Tallahassee.
- Warren Zwanka and Chrissy Carr will attend the Florida Ground Water Association (FGWA) with FDEP Water Well Contractor Workgroup Meeting in Lakeland.
- Leroy Marshall will attend the Statewide ETAT meeting in Tallahassee.



## Weekly Activity Report to Governing Board for Oct. 27 – Nov. 2, 2019

### **Executive / Management**

- Hugh Thomas attended the 2019 Florida Farm Bureau Annual Meeting in Orlando.

### **Legislative and Community Affairs**

- Steve Minnis and Ben Glass met with staff from the City of High Springs regarding the Alachua/High Springs Wellfield property.

### **Administration**

- No reporting activity.

### **Finance**

- Pam Shaw and Christina Green participated in a conference call with FDEP and other Water Management Districts on Fiscal Year 2020-2021 Preliminary Budget planning.

### **Land Management**

- District road contractors completed work on Goose Pasture Tract and moved to Cabbage Grove Tract.
- Timber harvest contractors continued timber harvesting at the Cabbage Creek and Roline tracts.
- District contractors continued roller chopping on Mallory Swamp Tract.
- District survey contractor completed the easement survey into Jennings Bluff Tract.

### **Resource Management**

- Leroy Marshall, Chrissy Carr, and Ashley Stefanik attended the ERP Agencies, State and Federal, teleconference to discuss consistency in permitting seawalls and making formal wetland determinations.

### **Water Resources**

- Darlene Velez attended the Fall Coastal Managers Forum via webinar to discuss several restoration projects and lessons learned.

### **Minimum Flows and Minimum Water Levels**

- Tom Mirti and John Good attended and participated in an MFL meeting in Tallahassee with the SJRWMD at FDEP to discuss the Lower Santa Fe and Ichetucknee Rivers and Priority Springs MFLs.

### **Water Supply**

- Water Supply staff was provided an overview of the H2OSAV tool which evaluates water consumption and conservation programs by the Gainesville Regional Utilities Planning Department.

## Hydrological Data

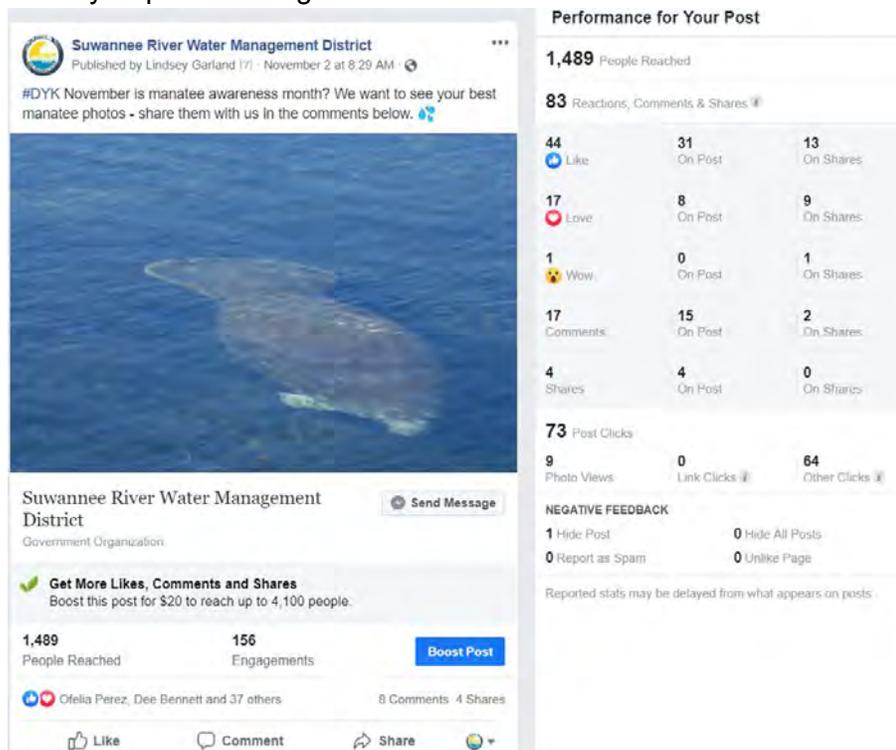
- No reporting activity.

## Agriculture and Environmental Projects

- Bob Heeke performed an inspection of the Pot Springs project in Hamilton County with contractors.
- Pat Webster, Bob Heeke, Warren Zwanka, and Kevin Flavin participated in a Hamilton County Wells Inspection.
- Ben Glass and Matt Cantrell attended the Manure Lunch on in Alachua for a presentation on BMP research.
- Hugh Thomas, Steve Minnis, Pat Webster, Leroy Marshall, Chrissy Carr, and Kevin Flavin met with representatives from Department of Transportation and Columbia County to discuss an I-75 and SR 247 Regional Pond opportunity.

## Communications

- Communications Office attended the FDEP/WMD Communications Meeting in Port Richey to discuss regional and statewide strategic initiatives, campaigns, and projects.
- Katelyn Potter presented to the “Challenge 2050” Class at the UF College of Agriculture and Life Scientist on the Interconnectedness Between Water and Humans.
- Weekly Top Performing Post



## Announcements for the week of November 10 – 16, 2019

- The District will hold its monthly Governing Board Meeting and Workshop on November 12<sup>th</sup> at the District Office beginning at 9:00 a.m.
- Katie Kelly will attend the 2020 Week 5 Legislative Interim Committee meetings in Tallahassee.



## Weekly Activity Report to Governing Board for November 3 – 9, 2019

### Executive / Management

- Hugh Thomas, Pat Webster, and Bob Heeke met with Dixie County stakeholders to provide a Mallory Swamp Tract update and to discuss other project opportunities in Dixie County.
- Hugh Thomas attended the Floridan Aquifer Collaborative Engagement for Sustainability (FACETS) meeting in Albany, GA.

### Legislative and Community Affairs

- Katie Kelly participated in week 4 of the 2020 Legislative Interim Committee meetings in Tallahassee.
- Ben Glass attended the Suwannee Chamber of Commerce Mix and Mingle in Live Oak.

### Administration

- No reporting activity.

### Finance

- Pam Shaw, Kristin Thompson, and Kelly Landis attended a webinar on Payroll Upgrades presented by AccuFund.
- Kristin Thompson attended a webinar on W-2, 1099 & 1095 Compliance and Filing Updates presented by Nelco Solution.
- Pam Shaw and Christina Green participated on a conference call with FDEP to discuss FY 2020-2021 Preliminary Budget guidance.

### Land Management

- The Gator Gobblers – National Wild Turkey Fund held their women and youth special opportunity hunt on the Mud Swamp Tract and harvested three deer.

### Resource Management

- Warren Zwanka and Chrissy Carr attended the FDEP/Florida Groundwater Association statewide Water Well Construction working group meeting in Lakeland to discuss proposed rule language, contractor test revisions, and grouting methods.
- Leroy Marshall, Pam Sanders, and Ashley Stefanik attended a meeting with the FDEP State Dam Safety Officer at District headquarters to discuss the condition of dams in the District.
- Leroy Marshall, Chrissy Carr, and Ashley Stefanik attended the FDOT Efficient Transportation Decision Making meeting in Tallahassee to discuss upcoming FDOT road projects.

### Water Resources

- Darlene Velez attended the Florida Water Resources Monitoring Council Meeting webinar.
- Darlene Velez and Marc Minno presented on water quality and biological indicators of environmental health to over 200 6<sup>th</sup> grade students and their teachers at the Ichetucknee State Park's Sixth Grade Orientation Day.

## Minimum Flows and Minimum Water Levels

- Louis Mantini and Sky Notestein assisted Jean-Paul Calixte, the State GIS/GPS Coordinator for the Natural Resources Conservation Service, in the Upper Suwannee River Basin in determining flow patterns and basin connections for a mapping project.

## Water Supply

- No reporting activity.

## Hydrological Data

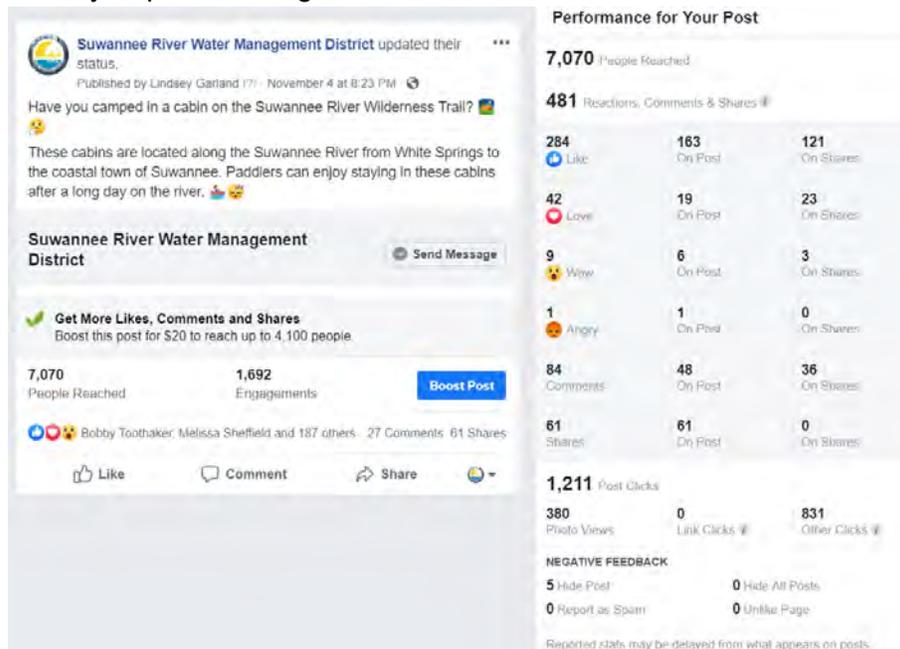
- No reporting activity.

## Agriculture and Environmental Projects

- Pat Webster met with the State Dam Safety Officer, Tracy Woods, P.G., to discuss dam related issues.
- Pat Webster met with Wetland Solutions concerning a potential Springs Grant Submittal in Alachua County.
- Pat Webster, Bob Heeke, Ben Glass, and Matt Cantrell participated in a teleconference call with Tom Kay of Alachua County Trust to discuss a SPRINGS grant project.
- Ben Glass represented the District at the Best Western Premier groundbreaking in Fanning Springs.
- Bob Heeke performed an inspection of both Mallory Swamp Tract and Pot Springs Tract.

## Communications

- Katelyn Potter and Lisa Cheshire met with UF Wedgeworth Institute to discuss professional development and staff leadership training opportunities.
- Weekly Top Performing Post



## Announcements for the week of November 17 – 23, 2019

- No announcements.



## Weekly Activity Report to Governing Board for November 10 – 16, 2019

### **Executive / Management**

- No reporting activity.

### **Legislative and Community Affairs**

- Katie Kelly participated in Week 5 of the 2020 Legislative Interim Committee meetings in Tallahassee.
- Ben Glass attended the FDOT District 2 Transportation Summit in Lake City and discussed the District's grant opportunities.
- Ben Glass presented at the Suwannee Academic Boosters Lunch in Live Oak to high school students, parents, and school staff.

### **Administration**

- No reporting activity.

### **Finance**

- No reporting activity.

### **Land Management**

- District contractors continued road repairs on the Cabbage Grove Tract in the Northwest Region.
- District contractors continued timber harvest operations on Cabbage Creek and Roline tracts.
- District contractors conducted prescribed burn on the Goose Pasture Tract.

### **Resource Management**

- Leroy Marshall, Ashley Stefanik, and Lindsey Garland met with local governments officials and/or representatives from Hamilton County, Town of Greenville, and City of Jasper regarding the upcoming FEMA Risk Map program for the Aucilla and Alapaha river basins.

### **Water Resources**

- No reporting activity.

### **Minimum Flows and Minimum Water Levels**

- No reporting activity.

### **Water Supply**

- No reporting activity.

## Hydrological Data

- No reporting activity.

## Agriculture and Environmental Projects

- Kevin Flavin and Bob Heeke met with Four Rivers Land and Timber Co. to discuss work at Mallory Swamp.
- Bob Heeke inspected the construction at Pot Springs in Hamilton County.
- Project Review Team met with the City of Newberry to review potential SPRINGS cost-share projects.

## Communications

- Weekly Top Performing Post

**Suwannee River Water Management District** is at Alligator Lake.

Published by Lindsey Garland · November 15 at 5:44 PM · Lake City

Do you know why the water levels at Alligator Lake are low? Find out why!

**Low Water Levels at Alligator Lake**  
02:22

Get More Likes, Comments and Shares  
Boost this post for \$20 to reach up to 5,000 people.

921	152	<a href="#">Boost Post</a>
People Reached	Engagements	

Chrissy Carr, Kathy Foley and 27 others · 1 Comment · 1 Share

Like · Comment · Share

### Performance for Your Post

921	People Reached	
450	3-Second Video Views	
36	Reactions, Comments & Shares	
32	29	3
Like	On Post	On Shares
2	0	2
Wow	On Post	On Shares
1	1	0
Comments	On Post	On Shares
1	1	0
Shares	On Post	On Shares
116	Post Clicks	
14	0	102
Clicks to Play	Link Clicks	Other Clicks
NEGATIVE FEEDBACK		
2	0	0
Hide Post	Hide All Posts	
0	0	0
Report as Spam	Unlike Page	

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## Announcements for the week of November 24 – 30, 2019

- District offices will be closed November 28-29 in observance of the Thanksgiving Holiday.