



South Indian River Water Control District™

Established 1923

February 20, 2020 – 7:00pm
Jupiter Farms Park Pavilion
16655 Jupiter Farms Rd., Jupiter, FL 33478

BOARD OF SUPERVISORS MEETING AGENDA

1. Pledge of Allegiance
2. Landowners' Items
3. Consent Agenda
 - A. Approval of Minutes of Previous Meeting
 - B. Approval of Warrant List
4. Public Information Report
5. Treasurer's Report
6. Manager of Operations Report
7. Engineer's Report
8. Attorney's Report
9. Old business
 - A. Review Policy for Pumping into Swales
10. New Business
11. Adjourn



**DICK GRUENWALD
ASSOCIATES, LLC**

**TO: Board of Supervisors
SOUTH INDIAN RIVER WATER CONTROL DISTRICT**

**FROM: Dick Gruenwald Associates
DISTRICT PUBLIC INFORMATION SPECIALISTS**

SUBJECT: Monthly Report – February 2020

News releases/Notices were sent out to local newspapers and community publications:

- ❖ Monthly Meeting (*Feb. 20*) release

The following items were updated or added to the website:

- ❖ Monthly meeting (*Dec. 12, 2019*) minutes
- ❖ Meeting updates
- ❖ Multiple copy changes on numerous pages
- ❖ Landowners Family Day information
- ❖ February Meeting Agenda and Staff Reports

Attended Monthly Meeting (*Jan. 16*) and Staff Meeting (*Feb. 10*).

The Annual newsletter was completed and mailed to all landowners. It included the MOP and Engineers Annual Reports, Election results, George McGarry anniversary, Annual Landowners Family Day notice and more.

The 29th Annual Landowners Family Day is scheduled for March 14 from 11:30 am – 2:30 pm. The Tom Jackson Band has been secured and we are finalizing our selections from the vendors and securing exhibitors for the event. Ads have been placed in the Jupiter Farmer and PBCE Countryside Living. As of now the following exhibitors will be attending – Citizens Observer Patrol Unit 103 Jupiter Farms/PBCE, Florida Forest Service, Farms Community Emergency Response Team (CERT), Palm Beach County Fire Rescue, Safety Council of Palm Beach County, Inc., Solid Waste Authority of Palm Beach County and South Florida Water Management District.

The next newsletter is in production which will include the invitation to Landowners Family Day. It will be in a large postcard format to save production and mailing cost.

The Board and Legal has received four initial proposals from experienced companies for creating and hosting a new ADA-compliant website for review. We continue to work on the revision and changes to the District website to prepare for migration to a new ADA compliant site on a new platform once a company is selected. We will continue to see where we can combine or eliminate unnecessary pages and repetitive information and remove information that is problematic for ADA readability in order to keep costs within current budget. We do have the ADA statement on the existing website that we are creating a new site and will provide any content to those who may not currently be able to access particular information.

Donna DeNinno worked with Michael Howard, John Meyer and Holly Rigsby on website content and changes for the ADA accessibility and reported at the December 12 meeting. Changes based on review are underway on the website and will be sent to the committee and legal for additional changes and approvals as they are made.

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PIO Monthly Report con't.

The District office and staff continue to review and update the District's Policy & Procedures Manual. Initial revisions by staff to Chapters 1-6 and associated Appendices are currently being incorporated into the manual and a second review is being conducted by staff. The District Engineer is reviewing chapters 7-9. The Procurement policy is also being updated and will be incorporated into the manual.

We continue to work with Mr. Meyer and the Manager of Operations on a regular basis. We review and monitor print and online media for all SIRWCD related stories articles on roads, drainage and other issues of interest in Palm Beach County and Florida, as well as nationally, then prepare and distribute material to supervisors and members of the staff via PDF in e-mail.



To: Board of Supervisors
FROM: Charles F. Haas, Treasurer
RE: Treasurer's Report for the month of February 2020
CC: Staff
Date: February 17, 2020

Routine Business

1. The District received a total of \$4,772,843.99 in current assessments receipts from the Palm Beach County Tax Collector through January 2020.
2. We are in the final stages of preparing the Interim Budget Report. It is currently undergoing internal review and will then be forwarded to the Budget committee for their comments. We expect it will be distributed to the full Board next week.. We will provide the Board a full report in the first Quarter.
3. We continue to work on the year end close in preparation of the audits commencement.
4. Following the Board's direction we will be sending our report to the District's Public Information Officer for uploading to the web-site.

Board Consideration

1. The Board will be asked to approve the list of disbursements. (sent under separate cover).



South Indian River Water Control District™

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MEMORANDUM

TO: Board of Supervisors
FROM: Manager of Operations
SUBJECT: Manager's Report for January 10, 2020 to February 13, 2020
DATE: February 13, 2020

ADMINISTRATIVE

1. Conducted monthly review of District canals with Aquatic Weed Spray Contractor.
2. On-site meetings and phone conversations with Landowners regarding drainage, road conditions, and driveway culvert installations.
3. Fire extinguishers were serviced as part of annual maintenance.
4. Attended Staff meeting.
5. Received \$9,250 from Palm Beach County for 4th quarter mowing maintenance per agreement.
6. Attended Safety Council Board Meeting.
7. Received \$2,645.00 from Verizon for cell tower lease.
8. Received bids for new security gate for the Work Center.
9. Received \$170,444.25 from FEMA for Hurricane Irma Canal Restoration Projects.
10. Hired Kolton Brown as Level 2 Operator/Mechanic.
11. Meeting with Palm Beach County DERM and District Engineer to review proposal for seepage study in the natural area south of Jupiter Farms.

A Florida Special District

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MEMORANDUM

To: Board of Supervisors

Date: February 13, 2020

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WATER CONTROL

1. Received 4.49 inches of rain this reporting period.
2. Crews installed 26 driveway culverts and three temporary culverts. Crews also prepared four swales for new construction culvert installs and inspected one culvert.
3. Terra Tech continues canal spraying for aquatic weed control.
4. Culvert install for Canal 13 project is completed.
5. Swales continue to be re-contoured for drainage throughout the District.

ROAD MAINTENANCE

1. Roads are being reviewed for re-contouring and material.



Manager of Operations

Memorandum

To South Indian River Water Control District (SIRWCD)
Board of Supervisors Pages 3

CC

Subject Engineer's Report for December

From Amy E. Eason, PE, District Engineer

Board Meeting
Date February 20, 2020

The following is a summary of activities and communications that were of significance during the **month of February**. Updated information is presented in **bold**:

I. CURRENT CAPITAL IMPROVEMENTS AND OTHER DISTRICT PROJECTS

A. In order to improve drainage and water quality in the Jupiter Farms area, staff was performing two separate efforts, but based on the board discussions at the August 2019 meeting, these efforts are being combined into the development of one conceptual plan for the Jupiter Farms area under the Jupiter Farms Re-Engineering program. Over the past year, staff was directed by the Board to:

- Evaluate the area and provide feedback concerning the purchase of land for water quantity and water quality benefits
- Analyze the effect of filling undeveloped lots has on the master system
- Analyze the localized effects on each section starting with Sections 7 and 18 and utilizing the results for the remainder of the area

In order to evaluate these elements, the District's hydrologic and hydraulic model needs to be updated to run various scenarios. Staff has obtained the latest topographic information from Palm Beach County to assist in updating the model and is working on obtaining a location map of all the outfalls within Jupiter Farms area. The model will be updated with this information.

This month, staff continues to confirm District owned outfalls within the Jupiter Farms area.

II. OPERATION AND MAINTENANCE

A. The National Pollutant Discharge Elimination System (NPDES) Steering Committee **met on January 15, 2020. The committee discussed the 2020 Program Meeting Schedule and the progress of the Year 3 Annual Reports. The next meeting is scheduled for February 19, 2020.**

- B. At the October 2018 board meeting, staff presented the budget for the construction of an addition to the District's workshop located at the District Office. This workshop is a 60 feet by 60 feet Steel Building addition to the property. Staff worked with a surveyor to survey the property for site plan development for the building permits. Staff negotiated with two potential contractors and awarded the contract to West Construction. West Construction was given Notice to Proceed on March 18, 2019. Staff received construction plans on May 7, 2019 and submitted comments back to the contractor to be addressed. The contractor submitted a building permit to Palm Beach County on May 10, 2019. The county has finished their initial review and issued comments on June 27, 2019. A building permit was issued on October 9, 2019 and West Construction is working onsite. The shell of the building is set and the electrical has been installed. The project is near completion **and is waiting on final inspections.**

Staff is also coordinating the contract documents for the conference room expansion. Staff will update the board at this month's meeting.

- C. The Loxahatchee River Water Restoration Project's purpose aims to restore and sustain the overall quantity, quality, timing, and distribution of fresh waters to the federally designated "National Wild and Scenic" Northwest Fork of the Loxahatchee River. Staff has been actively involved in reviewing and attending meetings for the Loxahatchee River Water Restoration Project. Staff has met with the Army Corp of Engineers (ACOE) and South Florida Water Management District (SFWMD) to clarify the operational protocols of South Indian River Water Management District.

Staff has attended the Engineering and Modeling Task subcommittee meetings to ensure that the operational protocols are implemented for the District. SFWMD and the ACOE have updated the model with the different scenarios and updated the cost estimates of proposed regional projects for the cost feasibility analysis. These updates were prepared for the Project Implementation Report (PIR) as part of the ACOE process. The ACOE posted some of the preliminary results of the modeling and staff has reviewed and met with both SFWMD and ACOE on the modeling and flood protection sub teams.

A Project Delivery Team (PDT) Meeting was held on May 9, 2018. At this meeting, an overview of the modeling results was given. The ACOE along with SFWMD also presented the evaluation process towards the Tentative Selected Plan (TSP), benefit analysis, cost estimates for the alternatives, and the evaluation process toward a TSP recommendation.

The draft PIR was released for review by the public March 22, 2019. There was a 45 day review period for the draft PIR, which ended May 6, 2019. Two public meetings were held to provide input on the draft PIR/EIS. Staff submitted comments on May 6, 2019. Staff is currently following up with SFWMD on re-evaluating the 1989 agreement between SIRWCD and SFWMD on the operation of the G-92 structure.

Palm Beach County submitted a letter to SFWMD on December 5, 2019 to support the project but to also express their concerns. **The Final PIR and Environmental Impact Statement (EIS) is available for review with the comment deadline on March 9, 2020. Staff is reviewing this report and is prepared to update the Board at this month's meeting.**

- D. The Loxahatchee River Management Coordinating Council (LRMCC) initiated the process with the Florida Department of Environmental Protection (FDEP) to prepare a Reasonable Assurance plan (RAP) in lieu of a TMDL and Basin Area Management Plan (BMAP) for the impaired WBIDs within the Loxahatchee River watershed.

On June 24, 2019, staff attended a LRMCC meeting where FDEP presented information on the RAP. FDEP worked with stakeholders to update their information and to provide projects to be included in the RAP. FDEP shared that the RAP currently shows that total phosphorus (TP) is being met, but total nitrogen (TN) is not. The RAP currently shows that additional projects are required to meet the impairments. FDEP held a demonstration on August 19, 2019 on the modeling.

Since the plan did not meet the impairments, a draft Loxahatchee River Pollutant Reduction (4e) Plan has been prepared and is posted on FDEP website for review and comment by October 31, 2019. This is a voluntary plan designed to address nutrient and bacteria impairments in the Loxahatchee River which will result in these impairments being moved to the 4e category on the state's list of impairments and will postpone total maximum daily load (TMDL) development. Staff submitted comments to FDEP on October 30, 2019. Staff further followed up with FDEP on items and concerns with the plan. Staff will continue to monitor this item.

- E. In September 2019, staff was asked to coordinate with SFWMD on a possible connect to Project Culvert 10 on the C-18 Canal in preparation for Hurricane Dorian. Staff installed four (4) culverts on Canal E for temporary relief in Palm Beach Country Estates. In December, an extreme rain event occurred and the culverts were utilized for temporary relief. Staff has contacted SFWMD and has completed some historical research of the area. **Staff is reviewing the information as directed by the board at last month's meeting.**
- F. At the October 2019 meeting, direct pumping into the District's secondary (swale system) was discussed. Staff was directed to draft a policy concerning pumping. **Staff is prepared to present this item at this month's meeting.**
- G. At the December 2019 meeting, staff was directed to provide a scope with an approximate fee to conduct a benefit analysis for parcels adjacent to County paved roads for the use in determining future roadway maintenance assessment adjustments. **Staff has prepared a scope and fee and will update the board at this month's meeting.**
- H. Staff continues to monitor and participate in the activities of the Loxahatchee River Ecosystem Management Committee, the Loxahatchee River Initiative, and the Loxahatchee River Management Coordinating Council.
- I. We continue to receive, review, and comment on various permit applications for projects to be constructed within the District.
- J. We continue to provide engineering assistance to the General Manager, as needed, on operation and maintenance items, as well as landowner requests, utility requests, and inquiries from other governmental entities on issues that involve engineering support.

Should you have any questions or comments, please feel free to contact me for more detailed information on any of the above subjects.

APPENDIX 12-C

SECTION 4

DRAINAGE AND IRRIGATION CONNECTIONS

Public Road Drainage

The District realizes that the construction of improvement of public roads by the State, County or municipalities benefits the landowners of the District as well as the public-at-large. It realizes, further, that many public road projects have minimal impact upon its water control system because of the size and nature of the project, and because other governmental agencies require some measure of runoff attenuation or water quality treatment.

Therefore, in the spirit of intergovernmental agency cooperation, the inflow criteria in this section may be modified by the Board upon the satisfactory showing of evidence by the governmental entity/applicant that such modification does not violate the water control and water quality objectives of the District.

Drainage Connections

Existing Connections into District Canals:

Drainage connections into District canals that existed prior to the adoption of these Rules may be replaced in size and kind as a matter of custodial maintenance. However, an application for permit must be submitted to the District and approved prior to initiation of such replacement to assure compatibility of the completed work with the District's rights-of-way in an acceptable manner.

New Connections and Enlargement of Existing Connections into District Canals:

New drainage connections and the enlargement of existing drainage connections within District canals shall be designed and installed to limit discharge from the drainage area served by the proposed installation. All connections require an application for permit to the District.

For gravity drainage, the applicant must demonstrate that the proposed installation will limit drainage discharge to the volumetric equivalent of not more than 2.5 inches of depth over the area served in a 24-hour period.

All gravity drainage connections to District canals shall be made in accordance with the details shown on Exhibit B.

The District strongly discourages the use of a pump to discharge into its canal system. If an applicant can demonstrate, to the satisfaction of the District's Board, that refusal to allow such an installation will result in an undue hardship, then the District may consider an application. A hardship into a canal system is based on engineer principles on the ability to discharge. Due to the nature of the discharge, pump discharges will require board approval. Permit approval will

be temporary for up to one year unless the applicant can provide evidence that there is no other means of discharge. At that time, the board may approve a longer expiration date.

For pump drainage, the total pump capacity shall not exceed the volumetric equivalent of 2.5 inches per day from the area to be served by the pump. The applicant must show that the total discharge from the property does not exceed the volumetric equivalent of 2.5 inches per day with the inclusion of the pump.

Applicants shall provide drainage calculations and construction plans signed and sealed by a Professional Engineer of the State of Florida that illustrates that the system meets the District's standards. If the applicant is a developer, the District Engineer has discretion on whether the permit will need approval from the Board due to the additional regulating agencies involved in development review.

New Connections into Secondary Drainage System (roadside swales and drainage easements)

The District's system is a gravity system. Recovery of the system is expected to be within 12 days or less of a storm event per South Florida Water Management District (SFWMD) Section 3.9.a of the Environmental Resource Permit Applicant's Handbook Volume II. Recovery is defined to the system receding to the stage of the seasonal groundwater elevation or pond control elevation depending on the area or system. Discharge from landowners is collected by sheet flow from the landowner property or by perimeter swales connected to the District's secondary drainage system. Should a landowner desire to connect into the secondary system by an alternative method such as a culvert or pump, a permit shall be obtained.

Gravity Connections

For gravity drainage, the applicant must demonstrate that the proposed installation will limit drainage discharge to the volumetric equivalent of not more than 2.5 inches of depth over the area served in a 24-hour period.

If the diameter of the pipe exceeds 6 inches, the applicant shall provide drainage calculations along with plans signed and sealed by a Professional Engineer of the State of Florida illustrating that the system meets to the District's standards.

If erosion, shoaling, or blockage of the conveyance feature occurs, the permittee shall immediately repair the facility to at least pre-discharge conditions. This is in accordance of Florida Statute 298.66 which states, "a person may not willfully, or otherwise, obstruct any public canal, drain, ditch or watercourse or damage or destroy any public drainage works constructed in or maintained by any district."

Pump Connections

The District strongly discourages the use of a pump to discharge into its secondary drainage system. If an applicant can demonstrate, to the satisfaction of the District's Board, that refusal to allow such an installation will result in an undue hardship and that the system could not be modified to work by gravity, then the District may consider an application. However, the

establishment of criteria and terms and conditions of such an approval, if granted, are solely with the jurisdiction of the Board.

A hardship shall include but is not limited to:

- Pumping to protect against imminent flood damage to permitted structures.
- Protection against damage caused to livestock (equine or other) from prolonged standing water, if there are no areas available for the livestock to be moved to on the landowner's site or the landowner can provide a veterinary statement certifying that the standing water is creating harm to the livestock.
- Relief from excessive and prolonged standing water in excess of the seasonal high ground water table or control elevation of the system of 12 days after a storm event.

In order to prove that the property could not drain by gravity, the landowner would need to provide a topographic survey of the property along with information of the nearest ditch, swale, or canal and an engineer's statement that the property could not be modified to provide gravity discharge. The engineer's statement must be signed and sealed by a licensed professional engineer in the state of Florida.

For a pump connection, the applicant must provide documentation of the hardship and provide reasonable assurance that the proposed pumping would not impact works of the District and the landowners that discharge into the same facilities. An analysis would be needed to illustrate that the timing and volume of flow does not impact the capacity of the secondary system for other landowners to use. This analysis would need to be completed by a licensed professional engineer registered in the state of Florida.

Due to the nature of the discharge, pump discharges will require board approval. Permit approval will be temporary for up to one year unless the applicant can provide evidence that there is no other means of discharge. At that time, the board may approve a longer expiration date.

A landowner could apply for a temporary permit for pumping for up to one year until the property can be modified to drain by gravity. After one year, the pumping will not be allowed without further consideration from the board.

The total pump capacity shall not exceed the volumetric equivalent of 2.5 inches per day from the area to be served by the pump and the applicant must show that the total discharge from the property does not exceed the volumetric equivalent of 2.5 inches per day with the inclusion of the pump.

The discharge shall be located a minimum of 15 feet from the easement line to the secondary system to allow for sheet flow into the system. Velocity from the pump system shall be limited to 1.5 feet per second or less. If erosion, shoaling, or blockage of the conveyance feature occurs, the permittee shall immediately repair the facility to at least pre-discharge conditions. This is in accordance to Florida Statute 298.66 which states, "a person may not willfully, or otherwise, obstruct any public canal, drain, ditch or watercourse or damage or destroy any public drainage works constructed in or maintained by any district."

Applicants shall provide drainage calculations and construction plans signed and sealed by a licensed Professional Engineer of the State of Florida that illustrates that the system meets the District's standards.

Irrigation Connections

Connections to District canals for irrigation withdrawals shall be designed and installed in a manner that is consistent with the water control, operation and maintenance objectives of the District. Irrigation intake works lying with the limits of the canal shall not impair the District's ability to perform normal maintenance operations. Intake works violating this objective shall be removed immediately upon request of the District during the required maintenance period.

Above ground irrigation system improvements including, but not limited to, pumps, pump houses or appurtenant works shall not be permitted in the District's right-of-way.

All Connections

The location of all connections shall be clearly marked by placing a post of contrasting colors over the culvert or pipe. The post shall be placed over the culvert or pipe at the top of the canal slope.

The permittee shall install and maintain connections in a manner that will prevent the introduction of hyacinths or other aquatic growth into the District's canals.