1. Call to Order - Chauncey Goss, Chairman, Governing Board
2. Pledge of Allegiance
3. Employee Recognitions
   - August Employee of the Month: Darlene Marley, Lead Scientist
   - August Team of the Month: Tropical Storm Alex Rainfall Data Team
   - 25-Year Service Award: Lawrence Glenn, Water Resources Division Director
   - 25-Year Service Award: Nenad Iricanin, Principal Scientist
   - 30-Year Service Award: Leslie Richards, Microwave Support Section Leader
4. Agenda Revisions
5. Agenda Item Abstentions by Board Members
6. Consider Approval of the Minutes for the July 14th Meeting
7. Executive Director's Report - Drew Bartlett
8. General Public Comment
9. Board Comment
10. Move Consent Agenda Items to Discussion Agenda
11. Public Comment on Consent Agenda Items

12. Board Vote on Consent Agenda

**Consent Agenda**

13. Release of Reservations (Staff contact, Stephen M. Collins)

**Agenda Item Background:**
The District has certain reserved rights to construct canal right of ways. Applications requesting release of these reservations are received as they constitute a defect on title which must be resolved prior to a property sale, especially when financing is involved. Applications are reviewed to determine if there is a present or future need for the canal reservations. If it has been determined there is no present or future need, staff recommend that the reservations are released for payment of a value equal to one percent of the appraised value of the land on the Property Appraiser's website in the County where the property is located. It has been determined that there is no present or future need for the reservations listed below.

**Staff Recommendation:**
Staff recommends approval of the following:

**Broward County**
Release District canal reservations for City of Pembroke Pines (File No. 18907) for 16.29 +/- acres; release value exempt (government).

**Recommended Action:**
Resolution No. 2022 - 0801 Release District canal reservations.

- Maps
- Memo Exhibit A
- Resolution No. 2022-0801
- Resolution Exhibit A

14. Contract with Florida Atlantic University for the Management of Riverwoods Field Laboratory, Highlands County (Staff contact, Lawrence Glenn)

**Agenda Item Background:**
The Kissimmee River Restoration Project is a 50/50 cost share between the federal government (United States Army Corps of Engineers) and the District. As part of this cost share agreement, the District is charged with assessing physical, chemical, biological, and functional responses within the restored river/floodplain to evaluate project success. The District currently has contracted with Florida Atlantic University (FAU) to manage the Riverwoods Field Laboratory as a base for field operations for District scientists evaluating ecosystem response, due to the remote location of the project and distance from District headquarters. This contract also provides two scientific staff to support evaluation of ecosystem response. The proposed three-year contract is to continue FAU providing two scientific staff and site maintenance/security for the 15-acre Riverwoods site in an amount not-to-exceed $1,017,168 subject to
Governing Board approval of future years budgets. Costs for this contract, both expended and proposed, are creditable and included in the District’s total project cost estimate for Kissimmee River Restoration.

**Recommended Action:**
**Resolution No. 2022 - 0802** Authorize entering into a three-year contract with Florida Atlantic University for site maintenance, outreach and scientific support of the Riverwoods Field Laboratory as part of the Kissimmee River Restoration project; in the amount of $1,017,168 for which $339,056 in Ad Valorem funds are subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004634)  
Resolution No. 2022-0802

**15.** Cost Share Agreement with the Village of Palmetto Bay, Survey of the C-100A Canal, Miami-Dade County (Staff contact, Sean Cooley)

**Agenda Item Background:**
Staff seeks approval to enter into a one-year cost share agreement with the Village of Palmetto Bay in an amount not-to-exceed $150,316.37 for the survey of the C-100 A canal from Coral Reef Park to 168th Street within the Village of Palmetto Bay. The survey project objectives are to obtain and map surface and canal existing conditions supporting maintenance, canal conveyance and engineering analysis.

**Recommended Action:**
**Resolution No. 2022 - 0803** Authorize entering into a cost share agreement with The Village of Palmetto Bay for the purpose of financial assistance to conduct a canal bank survey for which $150,316.37 is subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and future years budgets.  
(Contract No. 460004516)  
Resolution No. 2022-0803  
Agreement  
Statement of Work  
Project Estimate Spreadsheet

**16.** Security Services Contract, Allied Universal Security Services, LLC (Staff contact, Candida Heater)

**Agenda Item Background:**
Staff requests authorization to enter into a 3-year contract with two 1-year optional renewals with Universal Protection Services, LLC d/b/a Allied Universal Security Services, LLC for security services. Allied Universal will provide professional security services to ensure a safe and effective working environment for employees located at the District’s headquarters facility. Services include 24-hour monitoring of security systems, daily visitor control, ID badge and access control assistance, crowd control and site security. Security services have been traditionally outsourced by the District because the District does not have the positions or staff trained to provide these services. Allied Universal is a vendor that was awarded a contract for security services through a competitive bid process administered by the State of Florida (Contract No. 92121500-20-1) which the District is permitted to utilize for its own
security services.

The total amount of the 5-year contract, including the two 1-year optional renewals is $1,907,900.

**Recommended Action:**
Resolution No. 2022 - 0804  Authorize entering into a 3-year contract with two 1-year renewal options with Universal Protection Services, LLC d/b/a Allied Universal Security Services, LLC for security services at the District’s headquarters facility in West Palm Beach, using the State of Florida term contract, in an amount not-to-exceed $1,907,900 for which $359,361.60 is subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004624)

**Resolution No. 2022-0804**
Backup Document

17. Amendment to Adopted Fiscal Year 2021-2022 Budget (Staff contact, Candida Heater)

**Agenda Item Background:**
The Governor signed into the Laws of Florida, Chapter 2022-156 House Bill No. 5001 which includes, Specific Appropriation 1647 Grants and Aids to Local Governments and Nonstate Entities - Fixed Capital Outlay Everglades Restoration from the Land Acquisition Trust Fund that included $86,500,000 for Restoration Strategies Regional Water Quality Plan and from Section 197. Land Acquisition from the General Revenue Fund $35,000,000 for the Green Heart of the Everglades, subject to appraisal. These intergovernmental funds were not included in the District’s Fiscal Year 2021-2022 Adopted Budget. Pursuant to the requirements of Section 373.536(4)(c), Florida Statutes, “If the district receives unanticipated funds after the adoption of the final budget, the final budget may be amended, following review and approval by the Executive Office of the Governor, by including such funds, if notice of intention to amend is provided to the Legislative Budget Commission and is published in the notice of the governing board meeting at which the amendment will be considered, pursuant to Section 120.525, Florida Statutes.” The notice must set forth a summary of the proposed amendment. The District anticipates requiring $45,000,000 from the Florida Department of Environmental Protection (DEP) to facilitate and support the payment of invoices for Restoration Strategies Projects (STA-1W Expansion #2, C-139 Flow Equalization Basin) from the 2022 General Appropriations Act 1647 and $300,000 to conduct two appraisals, an environmental phase I assessment and a cultural resource assessment, for the Green Heart of the Everglades land acquisition from the 2022 Section 197 Land Acquisition appropriated to the DEP for transfer to the District. The District’s Fiscal Year 2022-2023 Tentative Budget will be reduced by the respective amounts, if approved, and the remaining balance of the specific appropriations will remain in the District’s Fiscal Year 2022-2023 Budget subject to Governing Board approval and adoption on September 20, 2022.

**Recommended Action:**
Resolution No. 2022 - 0805  Approve implementing from the 2022 Legislative Session Specific Appropriation 1647 Grants and Aids to Local Governments and Nonstate Entities - Fixed Capital Outlay Everglades Restoration from the Land
Acquisition Trust Fund in an amount of $45,000,000 for Restoration Strategies Regional Water Quality Plan and from Section 197. Land Acquisition from the General Revenue Fund $300,000 for the Green Heart of the Everglades; and authorize the Executive Director or Designee to execute agreements at no cost to the District with the Florida Department of Environmental Protection; and authorize an amendment to the Adopted Fiscal Year 2021-2022 budget.

EOG Approval Letter
Resolution No. 2022-0805
Resolution Exhibit A

18. Roof Maintenance and Inspection Program (Staff contact, Alan Shirkey)

**Agenda Item Background:**
As part of the Operations and Maintenance Capital Improvement Program, the Roof Maintenance and Inspection (RMI) Program covers the 16 counties within the District’s boundary. The RMI Program identifies deficiencies and provides recommendations for repairs, allowing action to be taken to eliminate further disintegration of damaged roofs resulting in the protection of the building envelope, equipment used to operate the pump station, and staff working within the building.

Staff is requesting Governing Board approval to enter into a contract with Advanced Roofing, Inc. for the implementation of the District’s Roof Maintenance and Inspection Program, using the Pinellas County, Florida, executed agreement 190-033-CP, for 3-years with optional two 1-year extensions, in an amount not-to-exceed $2,500,000.

**Recommended Action:**
Resolution No. 2022-0806 Authorize entering into a 3-year contract, with two 1-year renewal options with Advanced Roofing, Inc., to provide Roof Inspection and Maintenance Services for the Roof Inspection and Maintenance Program, using the Pinellas County Roofing Services & Supplies, Waterproofing & Related Products and Services Contract and rate schedule, in an amount not-to-exceed $2,500,000, for which $500,000 in Ad Valorem funds are subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004589)

Resolution No. 2022-0806
Backup Document

**Technical Reports**

20. Ecological Conditions Report - Lawrence Glenn

**Discussion Agenda**

21. Central Everglades Planning Project New Water Seepage Barrier Project, Miami-Dade County (Staff contact, Jennifer Reynolds)
Agenda Item Background:
As part of the Central Everglades Planning Project (CEPP), the CEPP New Water Seepage Barrier Wall Project includes an underground cut-off wall along the Levee 31N (L-31N) and 8.5 Square Mile Area (SMA). The project minimizes seepage from Everglades National Park (ENP) and mitigates regional flooding in urbanized areas. The Governing Board previously approved building 2.3 miles of a seepage wall adjacent to the 8.5 SMA along the C-358 Canal and the L-357W Levee. This new project includes construction of approximately 4.9 miles of a seepage cut-off wall along the L-357W Levee from the end of the 2.3-mile segment to the junction with the L-31N Levee. The lowest responsive and responsible bidder is recommended for award. In accordance with District policy and consistent with state law for Request for Bids procurements, this item was competitively bid through a sealed bid process.

Recommended Action:
Resolution No. 2022 - 0807  Authorize entering into a 790-day contract with Geo-Solutions, Inc., the lowest responsive and responsible bidder, for the CEPP New Water Seepage Barrier Wall Project, in the amount of $42,258,301 for which $100,000 in dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund) and Ad Valorem funds are budgeted and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004637)

Basin Management Action Plan Update (Kevin Coyne and David Frady, Florida Department of Environmental Protection)

Agenda Item Background:
The objectives of the Northern Everglades and Estuaries Protection Program (NEEPP) are to protect and restore surface water resources and achieve and maintain compliance with water quality standards in the Northern Everglades region including the Lake Okeechobee Watershed (LOW), St. Lucie River Watershed (SLRW), and Caloosahatchee River Watershed (CRW). Implementation, reporting, and coordination of the NEEPP are executed by the three coordinating agencies: Florida Department of Environmental Protection (DEP), Florida Department of Agriculture and Consumer Services, and the District. As part of NEEPP, Basin Management Action Plans (BMAPs) address pollutant loading or total maximum daily loads (TMDLs). BMAPs utilize a phased implementation of comprehensive and innovative management strategies that promote timely, cost-effective actions and integration with other programs. Staff from the DEP will update the Governing Board on the status and progress of BMAPs in the Northern Everglades.

Staff Reports
24. General Counsel's Report - Julia Lomonico, Interim General Counsel
25. General Public Comment
26. Board Comment

27. Adjourn

**Public Comment Procedure**

The South Florida Water Management District Governing Board encourages the public to provide comment and input to the Governing Board. Public comment is accepted at the two dedicated General Public Comment periods at the beginning and the end of the meeting. Public comment is also accepted on the Consent Agenda and each Discussion Agenda item.

Presentations for Agenda items 7, 19, 20, 21, and 22.
Written public comment received for items 8 and 21.

**Agenda Item Background:**

- 07 Bartlett ED Report
- 08 Public Comment Mike Knepper
- 19 Mitnik Water Conditions Report
- 20 Glenn Ecological Conditions Report
- 21 Reynolds CEPP New Water Seepage Barrier Wall Project
- 21 Public Comment Charles LaPradd
- 22 Blalock Coyne Frady BMAPs
MEMORANDUM

TO: Governing Board Members

FROM: Stephen M. Collins, Real Estate & Land Management

DATE: August 11, 2022

SUBJECT: Release of Reservations

Agenda Item Background:
The District has certain reserved rights to construct canal right of ways. Applications requesting release of these reservations are received as they constitute a defect on title which must be resolved prior to a property sale, especially when financing is involved. Applications are reviewed to determine if there is a present or future need for the canal reservations. If it has been determined there is no present or future need, staff recommend that the reservations are released for payment of a value equal to one percent of the appraised value of the land on the Property Appraiser’s website in the County where the property is located. It has been determined that there is no present or future need for the reservations listed below.

Staff Recommendation:
Staff recommends approval of the following:

Broward County
Release District canal reservations for City of Pembroke Pines (File No. 18907) for 16.29 +/- acres; release value exempt (government).

Core Mission and Strategic Priorities:
See Memorandum Exhibit “A” and maps attached hereto and made a part hereof, which contain the details and locations of the release to be issued.

Funding Source:
Pursuant to Section 373.096, Florida Statutes, the Governing Board of the District may release any reservation for which it has no present or apparent use under terms and conditions determined by the Board.

Staff Contact and/or Presenter:
Stephen M. Collins, smcollins@sfwmd.gov, 561-682-2959

ATTACHMENTS:

Maps
Memo Exhibit A
Resolution No. 2022-0801
Resolution Exhibit A
DISCLAIMER:
This map is a conceptual or planning tool only. The South Florida Water Management District does not guarantee or make any representation regarding the information contained herein. It is not self-executing or binding, and does not affect the interests of any persons or properties, including any present or future right or use of real property and is exempt from public records disclosure and confidential under Section 119.071(3)(a)(1), Florida Statute.
DISCLAIMER:
This map is a conceptual or planning tool only. The South Florida Water Management District does not guarantee or make any representation regarding the information contained herein. It is not self-executing or binding, and does not affect the interests of any persons or properties, including any present or future right or use of real property and is exempt from public records disclosure and confidential under Section 119.071(3)(a)(1), Florida Statutes.
MEMORANDUM – EXHIBIT “A”

Broward County
File No: 18907
Applicant: City of Pembroke Pines, a Florida municipal corporation
Reserving Deeds: T-1017 (DB 34-259, 6/25/1924) and T-1152 (DB 43-137, 12/15/1924)
Application Fee Paid: $250.00
Release Value: Exempt - Government
Action: Release District canal reservations
Acres: 16.29 acres, more or less
Legal Description: A portion of Tract “A”, PEMBROKE PINES CITY HALL PLAT, PB 136-23, Section 18, Township 51 South, Range 41 East
Location: 10100 Pines Boulevard, Pembroke Pines, Broward County
Reviewed By: Water Supply Development Section, Right of Way Section, Environmental Recourse Permitting Bureau, Office of Everglades Policy Coordination, and Central Broward Water Control District
A Resolution of the Governing Board of the South Florida Water Management District to release District canal reservations; providing an effective date.

WHEREAS, the applicants have requested that the South Florida Water Management District release certain District canal reservations; and

WHEREAS, the District is empowered to grant such releases pursuant to Section 373.096, Florida Statutes.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby approves the release of District canal reservations, as described in Resolution Exhibit “A” attached hereto and made a part hereof.

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of August, 2022.
<table>
<thead>
<tr>
<th><strong>Broward County</strong></th>
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</tbody>
</table>
MEMORANDUM

TO:        Governing Board Members
FROM:      Lawrence Glenn, Water Resources Division
DATE:      August 11, 2022
SUBJECT:   Contract with Florida Atlantic University for the Management of Riverwoods Field Laboratory, Highlands County

Agenda Item Background:
The Kissimmee River Restoration Project is a 50/50 cost share between the federal government (United States Army Corps of Engineers) and the District. As part of this cost share agreement, the District is charged with assessing physical, chemical, biological, and functional responses within the restored river/floodplain to evaluate project success. The District currently has contracted with Florida Atlantic University (FAU) to manage the Riverwoods Field Laboratory as a base for field operations for District scientists evaluating ecosystem response, due to the remote location of the project and distance from District headquarters. This contract also provides two scientific staff to support evaluation of ecosystem response. The proposed three-year contract is to continue FAU providing two scientific staff and site maintenance/security for the 15-acre Riverwoods site in an amount not-to-exceed $1,017,168 subject to Governing Board approval of future years budgets. Costs for this contract, both expended and proposed, are creditable and included in the District’s total project cost estimate for Kissimmee River Restoration.

Core Mission and Strategic Priorities:
Additional Item Background:
Riverwoods Field Laboratory is located in Cornwell, Florida on a reach of the Kissimmee River. The District has held four previous multi-year contracts with FAU to manage the Riverwoods Field Laboratory. Section 287.057, Florida Statutes, and District Policy provide exempting this agreement from competitive solicitation based on Section 155-6 #17 that state “services from universities and colleges, including community colleges, for research, studies, or training, unless more than one institution can provide comparable products or services”. Contracting these services through FAU rather than from a private sector firm provides the District with a substantial savings of over the three-year contract life.

Core Mission and Strategic Priorities:
This action supports the mission element, “to safeguard and restore South Florida’s water resources and ecosystems”. This continued level of support will allow complete evaluation and documentation of changing ecological conditions in the Kissimmee River and floodplain as the system continues to respond to completion of project construction in 2020.

Funding Source:
Ad Valorem funds subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and future years budgets.
Staff Contact and/or Presenter:
Steve Bousquin, sbousqu@sfwmd.gov, 561-682-2719

ATTACHMENTS:
Resolution No. 2022-0802
A Resolution of the Governing Board of the South Florida Water Management District authorizing entering into a three-year contract with Florida Atlantic University for site maintenance, outreach and scientific support of the Riverwoods Field Laboratory as part of the Kissimmee River Restoration project; in the amount of $1,017,168 for which $339,056 in Ad Valorem funds are subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and the remainder is subject to Governing Board approval of future years budgets; providing an effective date. (Contract No. 4600004634)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter this contract with Florida Atlantic University; and

WHEREAS, Kissimmee River Restoration (KRR) is an authorized project and cost-shared equally between the US Army Corps of Engineers and the non-federal sponsor, SFWMD; and

WHEREAS, SFWMD is responsible for conducting the Kissimmee River Restoration Evaluation Program (a component of KRR), is a structured program designed to evaluate ecosystem response to restoration and determine the progress made toward reestablishing ecological integrity to the Kissimmee River and its floodplain; and

WHEREAS, all activities and associated costs conducted under this Agreement are creditable to the KRR project.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into a three-year contract with Florida Atlantic University for site maintenance, outreach and scientific support of the Riverwoods Field Laboratory as part of the Kissimmee River Restoration project; in the amount of $1,017,168 for which $339,056 in Ad Valorem funds are subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and future years budgets. (Contract No. 4600004634)

Section 2. This Resolution shall take effect October 1, 2022.

PASSED and ADOPTED this 11th day of August, 2022.
MEMORANDUM

TO: Governing Board Members

FROM: Sean Cooley, Office of Communications & Public Engagement

DATE: August 11, 2022

SUBJECT: Cost Share Agreement with the Village of Palmetto Bay, Survey of the C-100A Canal, Miami-Dade County

Agenda Item Background:
Staff seeks approval to enter into a one-year cost share agreement with the Village of Palmetto Bay in an amount not-to-exceed $150,316.37 for the survey of the C-100 A canal from Coral Reef Park to 168th Street within the Village of Palmetto Bay. The survey project objectives are to obtain and map surface and canal existing conditions supporting maintenance, canal conveyance and engineering analysis.

Core Mission and Strategic Priorities:
Obtain a current Boundary and Topographic Survey (land and canal) of existing conditions, surface features, apparent physical use along the canal corridor. The Survey shall also include new aerial imagery, LiDAR, and canal Bathymetric data sets.

Consultant shall provide a Boundary, Topographic and Hydrographic survey in accordance with Florida Standards of Practice (SOP) and District requirements.

All surveying services shall be performed under the direction of a Professional Surveyor and Mapper licensed in the State of Florida, in accordance with Chapter 472, Florida Statutes, and 5J of the Florida Administrative Code.

This item is aligned with the District’s flood control mission and will serve to identify any conveyance issues that might hinder conveyance in the C-100 A canal. The Village of Palmetto Bay, being the owner of an adjacent property, Coral Reef Park, requested this partnership with the District to properly identify property lines and assess canal bank stability in the C-100 A canal that provides flood control for the municipality of Palmetto Bay and adjoining residential areas.

Funding Source:

Staff Contact and/or Presenter:
Armando Vilaboy, avilaboy@sfwmd.gov, 305-513-3420 ext. 7249 or 305-336-0711

ATTACHMENTS:

Resolution No. 2022-0803
Agreement
Statement of Work

Project Estimate Spreadsheet
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2022 - 08XX

A Resolution of the Governing Board of the South Florida Water Management District (DISTRICT) to authorize entering into a cost share agreement with The Village of Palmetto Bay (VILLAGE) for the purpose of financial assistance to conduct a canal bank survey for which $150,316.37 is subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and future years budgets; providing an effective date. (Contract No. 460004516)

WHEREAS, the DISTRICT is a government entity created by Chapter 373, Florida Statutes; and

WHEREAS, the DISTRICT desires to provide financial assistance to the VILLAGE to conduct a boundary, hydrographic, and topographic survey on canals; and

WHEREAS, this portion of the canal banks are eroded, and surveys are needed to identify whether bank stabilization is needed to maintain current level of service; and

WHEREAS, the VILLAGE warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms and conditions of this Agreement; and

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into an agreement with The Village of Palmetto Bay for the purpose of financial assistance to conduct a canal bank survey for which $150,316.37 is subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and future years budgets. (Contract No. 460004516)

Section 2. The DISTRICT and the VILLAGE agree to contribute funds as set forth in the agreement attached hereto and made a part hereof, subject to availability of funds and in accordance with their respective authorities for canal surveys in The Village of Palmetto Bay.

Section 3. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of August, 2022.
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
GOVERNMENTAL AGREEMENT

AGREEMENT NO. 4600004516

BETWEEN THE

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

AND

THE VILLAGE OF PALMETTO BAY

THIS Agreement is entered into as of _____________ by and between the South Florida Water Management District (DISTRICT) and The Village of Palmetto Bay (VILLAGE).

WHEREAS, the DISTRICT is a government entity created by Chapter 373, Florida Statutes; and

WHEREAS, the DISTRICT desires to provide financial assistance to the VILLAGE to conduct a boundary, hydrographic, and topographic survey on canals; and

WHEREAS, this portion of the canal banks are aesthetically eroded, and surveys are needed to guide bank improvements; and

WHEREAS, the VILLAGE warrants and represents that it has no obligation or indebtedness that would impair its ability to fulfill the terms and conditions of this Agreement; and

NOW, THEREFORE, in consideration of the covenants and representations set forth herein and other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, the parties agree as follows:

1. The DISTRICT agrees to contribute funds and the VILLAGE agrees to contribute funds set forth in Exhibit “A” attached hereto and made a part hereof, subject to availability of funds and in accordance with their respective authorities for canal surveys in The Village of Palmetto Bay.

2. The period of performance of this Agreement shall commence on the date of execution of this Agreement and shall continue for a period of one (1) year.
3. After reimbursement, the total DISTRICT and the total VILLAGE contribution shall not exceed the amount of one-hundred fifty thousand and three hundred sixteen dollars and thirty-seven cents ($150,316.37). The VILLAGE shall make payment upon completion and acceptance of the deliverables as described in the Payment and Deliverable Schedule set forth in Exhibit “A”, which is attached hereto and made a part of this Agreement. The VILLAGE’s payment is a reimbursement of actual expenditures and therefore is subject to adequate documentation to support actual expenditures in accordance with Exhibit “A”. Absence of proper documentation may result in non-payment or audit and return of prior payments. In no event shall the VILLAGE be liable for any contribution hereunder in excess of $150,316.37.

4. The DISTRICT will provide written correspondence to the VILLAGE upon satisfactory completion of the deliverables as described in the Payment and Deliverable Schedule set forth in Exhibit “A”, which is attached hereto and made a part of this Agreement. The VILLAGE shall make payment to the DISTRICT upon receipt of such correspondence. The VILLAGE’s contribution is subject to adequate documentation to support actual expenditures within the not-to-exceed Agreement funding limitation of one hundred fifty thousand and three hundred sixteen dollars and thirty-seven cents ($150,316.37). In no event shall the VILLAGE be liable for any contribution hereunder in excess of this amount. If the total consideration for this Agreement is subject to multi-year funding allocations, funding for each applicable fiscal year of this Agreement will be subject to Governing Board budgetary appropriation. In the event the DISTRICT does not approve funding for any subsequent fiscal year, this Agreement shall terminate upon expenditure of the current funding, notwithstanding other provisions in this Agreement to the contrary. The DISTRICT will notify the VILLAGE in writing after the adoption of the final DISTRICT budget for each subsequent fiscal year if funding is not approved for this Agreement.

5. The DISTRICT is hereby authorized to contract with third parties (subcontracts) for services awarded through a competitive process required by Florida Statutes. The DISTRICT agrees to be responsible for the fulfillment of all work elements included in any subcontract and agrees to be responsible for the payment of all monies due under any subcontract. It is understood and agreed by the DISTRICT that the VILLAGE shall not be liable to any subcontractor for any expenses or liabilities incurred under the subcontract(s).

6. Both the DISTRICT and the VILLAGE shall have joint ownership rights to all work items, including but not limited to, all documents, technical reports, research notes, scientific data, computer programs, including the source and object code, which are developed, created or otherwise originated hereunder by the other party, its subcontractor(s), assign(s), agent(s) and/or successor(s)”. Both parties’ rights to deliverables received under this Agreement shall include the unrestricted and perpetual right to use, reproduce, modify and distribute such deliverables at no additional cost to the other party.

7. The VILLAGE and the DISTRICT further agree that nothing contained herein shall be construed or interpreted as (1) denying to either party any remedy or defense available to such party under the laws of the State of Florida; (2) the consent of the State of Florida or
its agents and agencies to be sued; or (3) a waiver of sovereign immunity of the State of Florida beyond the waiver provided in Section 768.28, Florida Statutes.

8. The parties to this Agreement are independent entities and are not employees or agents of the other parties. Nothing in this Agreement shall be interpreted to establish any relationship other than that of independent entities, between the DISTRICT, the VILLAGE, their employees, agents, subcontractors or assigns, during or after the term of this Agreement. The parties to this Agreement shall not assign, delegate or otherwise transfer their rights and obligations as set forth in this Agreement without the prior written consent of the other parties. Any attempted assignment in violation of this provision shall be void.

9. The parties to this Agreement will not discriminate against any person on legally protected basis in any activity under this Agreement.

10. The VILLAGE, its employees, subcontractors or assigns, shall comply with all applicable federal, state and local laws and regulations relating to the performance of this Agreement. The DISTRICT undertakes no duty to ensure such compliance, but will attempt to advise the VILLAGE, upon request, as to any such laws of which it has present knowledge.

11. Either party may terminate this Agreement at any time for convenience upon thirty (30) calendar days prior written notice to the other party. In the event of termination, all funds not expended by the DISTRICT for authorized work performed through the termination date shall be returned to the VILLAGE within sixty (60) days of termination.

12. The Parties shall allow public access to all project documents and materials in accordance with the provisions of Chapter 119, Florida Statutes. Should the Parties assert any exemptions to the requirements of Chapter 119 and related Statutes, the burden of establishing such exemption, by way of injunctive or other relief as provided by law, shall be upon the Parties.

13. The VILLAGE shall maintain records and the DISTRICT shall have the inspection and audit rights below. The DISTRICT shall similarly require each subcontractor to maintain and allow access to such records for audit purposes:

A. Maintenance of Records: The VILLAGE shall maintain all financial and non-financial records and reports directly or indirectly related to the negotiation or performance of this Agreement including supporting documentation for any service rates, expenses, research or reports. Such records shall be maintained and made available for inspection for a period of five (5) years from the expiration date of this Agreement.

B. Examination of Records: The DISTRICT or designated agent shall have the right to examine in accordance with generally accepted governmental auditing standards all records directly or indirectly related to this Agreement. Such examination may be made only within five (5) years from the expiration date of this Agreement.
C. **Extended Availability of Records for Legal Disputes:** In the event that the DISTRICT should become involved in a legal dispute with a third party arising from performance under this Agreement, the VILLAGE shall extend the period of maintenance for all records relating to the Agreement until the final disposition of the legal dispute. All such records shall be made readily available to the DISTRICT.

14. Whenever the DISTRICT’s contribution includes state or federal appropriated funds, the VILLAGE shall, in addition to the inspection and audit rights set forth in paragraph 12 above, maintain records and similarly require each subcontractor to maintain and allow access to such records in compliance with the requirements of the Florida State Single Audit Act and the Federal Single Audit Act, as follows:

A. **Maintenance of Records:** The VILLAGE shall maintain all financial/non-financial records through:

1. Identification of the state or federal awarding agency, as applicable
2. Project identification information included in the Catalog of State Financial Assistance (CSFA) or the Catalog of Federal Financial Assistance (CFFA), as applicable
3. Audit and accountability requirements for state projects as stated in the Single Audit Act and applicable rules of the Executive Office of Governor, rules of the Chief Financial Officer and rules of the Auditor General and the State Projects Compliance Supplement
4. Audit/accountability requirements for federal projects as imposed by federal laws and regulations
5. Submission of the applicable single audit report to the DISTRICT, as completed per fiscal year

B. **Examination of Records:** The DISTRICT or designated agent, the state awarding agency, the state’s Chief Financial Officer and the state’s Auditor General and/or federal awarding agency shall have the right to examine the VILLAGE’s financial and non-financial records to the extent necessary to monitor the VILLAGE’s use of state or federal financial assistance and to determine whether timely and appropriate corrective actions have been taken with respect to audit findings and recommendations which may include onsite visits and limited scope audits.

15. All notices or other communication regarding this Agreement shall be in writing and forwarded to the attention of the following individuals:
<table>
<thead>
<tr>
<th>South Florida Water Management District</th>
<th>The Village of Palmetto Bay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attn: Armando Vilaboy, Project Manager</td>
<td></td>
</tr>
<tr>
<td>9001 NW 58th Street</td>
<td></td>
</tr>
<tr>
<td>Miami, FL 33178</td>
<td></td>
</tr>
<tr>
<td>Telephone No. (305) 513-3420x7249</td>
<td></td>
</tr>
<tr>
<td>Email: <a href="mailto:avilaboy@sfwmd.gov">avilaboy@sfwmd.gov</a></td>
<td>Attn: Dionisio F. Torres, P. E., Director of Public</td>
</tr>
<tr>
<td></td>
<td>Services</td>
</tr>
<tr>
<td></td>
<td>Address: 9495 SW 180th Street</td>
</tr>
<tr>
<td></td>
<td>Palmetto Bay, FL 33157</td>
</tr>
<tr>
<td></td>
<td>Telephone No. (305) 969-5086</td>
</tr>
<tr>
<td></td>
<td>Email: <a href="mailto:dtorres@palmettobay-fl.gov">dtorres@palmettobay-fl.gov</a></td>
</tr>
<tr>
<td>Attn: Rachel Clark, Sr. Contract Specialist</td>
<td></td>
</tr>
<tr>
<td>3301 Gun Club Road</td>
<td></td>
</tr>
<tr>
<td>West Palm Beach, FL 33406</td>
<td></td>
</tr>
<tr>
<td>Telephone No. (561) 681-2793</td>
<td></td>
</tr>
<tr>
<td>Email: <a href="mailto:rclark@sfwmd.gov">rclark@sfwmd.gov</a></td>
<td></td>
</tr>
</tbody>
</table>

16. DISTRICT recognizes that any representations, statements or negotiations made by DISTRICT staff do not suffice to legally bind VILLAGE in a contractual relationship unless they have been reduced to writing and signed by an authorized VILLAGE representative. This Agreement shall inure to the benefit of and shall be binding upon the parties, their respective assigns, and successors in interest.

17. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. A photocopy, electronic or facsimile copy of this Agreement and any signatory hereon shall be considered for all purposes as original.

18. This Agreement may be amended, extended or renewed only with the written approval of the parties. The DISTRICT shall be responsible for initiating any amendments to this Agreement, if required.

19. This Agreement, and any work performed hereunder, is subject to the Laws of the State of Florida. Nothing in this Agreement will bind any of the parties to perform beyond their respective authority, nor does this Agreement alter the legal rights and remedies which the respective parties would otherwise have, under law or at equity.

20. Should any term or provision of this Agreement be held, to any extent, invalid or unenforceable, as against any person, entity or circumstance during the term hereof, by force of any statute, law, or ruling of any forum of competent jurisdiction, such invalidity shall not affect any other term or provision of this Agreement, to the extent that the Agreement Shall remain operable, enforceable and in full force and effect to the extent permitted by law.

21. Failures or waivers to insist on strict performance of any covenant, condition, or provision of this Agreement by the parties shall not be deemed a waiver of any of its rights or remedies, nor shall it relieve the other party from performing any subsequent obligations strictly in accordance with the terms of this Agreement. No waiver shall be effective unless in writing and signed by the party against whom enforcement is sought. Such waiver shall be limited to provisions of this Agreement specifically referred to therein and shall not be deemed a waiver.
of any other provision. No waiver shall constitute a continuing waiver unless the writing states otherwise.

22. Any dispute arising under this Agreement which cannot be readily resolved shall be submitted jointly to the signatories of this Agreement with each party agreeing to seek in good faith to resolve the issue through negotiation or other forms of non-binding alternative dispute resolution mutually acceptable to the parties. A joint decision of the signatories, or their designees, shall be the disposition of such dispute.

23. This Agreement states the entire understanding and Agreement between the parties and supersedes any and all written or oral representations, statements, negotiations, or Agreements previously existing between the parties with respect to the subject matter of this Agreement.

24. Any inconsistency in this Agreement shall be resolved by giving precedence in the following order:
(a) Terms and Conditions outlined in preceding paragraphs 1 – 23
(b) Exhibit “A” Payment and Deliverable Schedule
(c) all other exhibits, attachments and documents specifically incorporated herein by reference

IN WITNESS WHEREOF, the parties or their duly authorized representatives hereby execute this Agreement on the date first written above.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT BY ITS GOVERNING BOARD

By: ________________________________
Drew Bartlett, Executive Director

By: ________________________________
Candida Heater, Director Administrative Services Division

SFWMD OFFICE OF COUNSEL
By: ________________________________

Date: July 25, 2022

SFWMD PROCUREMENT APPROVED
By: ________________________________

Date: July 19, 2022
VILLAGE OF PALMETTO BAY

By: ____________________________
   Name of Authorized Individual

Title: Village Manager
Reimbursement to the District shall be made on a fixed price basis in the fixed amounts specified below following written certification to the Village of the District’s acceptance of each deliverable and upon invoicing to the Village of Palmetto Bay.

### District/Village C100A Canal Year One Cost-Share

<table>
<thead>
<tr>
<th>Task</th>
<th>Deliverables</th>
<th>Due Date</th>
<th>District Payment</th>
<th>Village Reimbursement to the District</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preparations-Setup-Meetings</td>
<td>TBD</td>
<td>$9,256.08</td>
<td>$4,628.04</td>
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<td>2</td>
<td>Set (Recover) and Survey Baseline Control Set</td>
<td>TBD</td>
<td>$10,799.48</td>
<td>$5,399.74</td>
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<td>3</td>
<td>Topographic Survey and Mapping - Predetermined Parcels-Sites</td>
<td>TBD</td>
<td>$12,033.94</td>
<td>$6,016.97</td>
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<td>4</td>
<td>Boundary Survey &amp; Set Row Monumentation</td>
<td>TBD</td>
<td>$46,457.84</td>
<td>$23,228.92</td>
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<tr>
<td>5</td>
<td>Canal Cross Sections and Topo</td>
<td>TBD</td>
<td>$21,672.06</td>
<td>$10,836.03</td>
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<tr>
<td>6</td>
<td>Land Cross Sections - Topo in Backyards</td>
<td>TBD</td>
<td>$19,827.14</td>
<td>$9,913.57</td>
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<td>7</td>
<td>Hydrographic Survey (Sub-Consultant)</td>
<td>TBD</td>
<td>$106,000.00</td>
<td>$53,000.00</td>
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<td>8</td>
<td>Lidar and Imagery Acquisition/Data Processing</td>
<td>TBD</td>
<td>$57,826.39</td>
<td>$28,913.20</td>
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<tr>
<td>9</td>
<td>Preliminary Submittal</td>
<td>TBD</td>
<td>$0.00</td>
<td>$0.00</td>
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<tr>
<td>10</td>
<td>Final Submittal (Six Months from Notice to Proceed)</td>
<td>TBD</td>
<td>$16,759.80</td>
<td>$8,379.90</td>
</tr>
<tr>
<td></td>
<td>Total Lump Sum Cost</td>
<td></td>
<td>$300,632.73</td>
<td>$150,316.37</td>
</tr>
</tbody>
</table>

Page 1 of 1, Exhibit “A”, Contract No. 4600004516
1.0 INTRODUCTION/BACKGROUND

The South Florida Water Management District (District) is working with the Palmetto Bay Village (Municipality) on certain canal jurisdictions, and maintenance along Canal 100A (Cutler Drain Canal). This Work Order’s current effort has been identified as a Priority Segment No.1, for Surveying and Mapping, supporting a proposed Three-Year plan to survey all the C100 canals in the Palmetto Bay Village jurisdictional limits. The Survey project objectives are to obtain and map surface and canal existing conditions supporting maintenance, canal conveyance and engineering analysis.

The C100A canal segment No.1 of this work order is located within Sections 21, 22, 26, 27 Township 55 South, Range 40 East: Miami-Dade County, Florida.

PROJECT LIMITS: EXA

Survey Limits a portion of C100A Priority Segment No.1: (North to South) 1.76 miles ±.
From the intersection of the C100C and C100A Canals (north boundary of Coral Reef Park), to the overpass of SW 168th Street.
*Including sub-lateral canal (South of SW 159 Terr.) to east to County Water Quality area. (*Sub-lateral canal to east is Topographic and Hydrographic Survey only).

2.0 OBJECTIVES

Obtain a current Boundary and Topographic Survey (land and canal) of existing conditions, surface features, apparent physical use along the canal corridor. The Survey shall include new aerial imagery, LiDAR, and canal Bathymetric data sets.
Woolpert, Inc. (Consultant) shall provide a Boundary, Topographic and Hydrographic survey in accordance with Florida Standards of Practice (SOP) and SFWMD requirements as specified in the work breakdown of this statement of work.

All surveying services shall be performed under the direction of a Professional Surveyor and Mapper licensed in the State of Florida, in accordance with Chapter 472 of the Florida Statutes and 5J of the Florida Administrative Code (FAC). The Surveyor and Mapper shall be qualified in the appropriate discipline(s) and having the appropriate technical expertise. Completion of the work shall include acceptable performance and delivery of certified surveys, field survey notes, computations, and all other data and materials compiled and/or
assembled as part of this Work Order.
If the Consultant can provide the same quality of service using a different method than what is stated in these specifications, it the consultant’s responsibility to discuss this alternate method with the District prior to execution.
Any changes to the prescribed methodologies delineated in this statement of work may not be implemented unless or until prior written permission is received from the District subject to a determination by the District that the change in methodology will not compromise the quality of service.

The Consultant shall utilize a minimum of 25% (or more as determined by the District) small business enterprise (SBE) percentage requirement as part of this work order.

Public notifications may be required. Consultant shall not proceed with execution of this work order without prior authorization and copy of applicable public notifications. The Consultant may be required to attend public forum meetings.

Consultant or sub-consultant shall NOT enter private lands without first making attempts to contact the owner AND/OR place provided notice “door hanger” on owner’s door or gate. Failure to adhere to these requirements can alter future work assignments with the District.

3.0 SCOPE OF WORK

The Consultant shall provide a new Boundary, Topographic, Hydrographic (multi-beam), Photogrammetry and LiDAR Survey of a portion of the C-100A (Exhibit A) Canal Village of Palmetto Bay/Miami Dade County (Approximately 1.76 miles).
The District will:
1. Provide a drawing showing the approximate survey limits of the site (Exhibit “A”).
2. Provide copies of existing/relevant surveys/maps.
3. Obtain a list of all property owners adjacent to the canal.
4. Prepare and mail a letter to the owners outlining the surveying task.

4.0 WORK BREAKDOWN STRUCTURE

Project Datums:
All Horizontal data shall be collected in and based on the North American Datum of 1983, 2011 adjustment (NAD 83/11) or higher. Horizontal coordinate control shall be established from existing National Geodetic Survey (NGS) 2nd Order control or higher in the area by using GPS, RTK GPS or OPUS derived solutions. All measurements in accordance with the United States standard survey foot. Horizontal control marks will be set for the survey, Benchmark monuments can be used.

All Vertical control shall start and end on NGS Second Order or higher vertical control monument using NGS digital leveling procedures, methods, and closures.

Conventional Vertical Control
The Consultant shall use a minimum of two (2) different NGS benchmarks that are a minimum
of one-half mile apart.  
The level run must vertically close to 0.03 feet \( \sqrt{\text{miles}} \) (0.03 feet times the square root of the distance in miles). If the monuments do not meet this closure requirement the Consultant must use another NGS monument until the two monuments used in the level run close.  
All level runs shall be a double run (forward and back) or a level loop (no spur lines).  

**GPS vertical verification**  
The Consultant may use GPS to verify the NGS values. The relative elevation difference between the NGS monuments shall be less than 0.05 of a foot. The Consultant shall occupy the monuments multiple times to verify the elevation. If the monuments do not meet this closure requirement the Consultant must use another NGS monument until the two monuments used in the level run close.  

**Standard Requirements:**  
1) All field work shall be put in a surveyor's field book(s) and/or collected electronically with a digital level.  
2) The Consultant shall establish State Plane Coordinates, including latitude and longitude, on all found or set control points used for this project.  
3) All data collected electronically shall be stored and delivered in native format.  
4) All final reports for adjusted data shall be delivered to the District.  
5) All final Surveyor’s and Photogrammetrist reports shall be delivered to the District.  
6) The Consultant shall complete the District’s Benchmark Form for each control monument set.  
7) The Consultant shall complete a minimum **6-hour OPUS** solution observation and reporting for any new Benchmarks set and/or on pre-identified existing District Benchmarks.  
8) *The “purpose” of this task is in relationship to the District’s Vertical Datum Initiatives recording (non-recorded/blue booked) benchmarks in the NGS data base for the future federal datum conversions.*  
9) All control utilized for this project shall appear on the survey or in the report.  
10) The Consultant shall report to NGS, through the online reporting system [http://www.ngs.noaa.gov/cgi-bin/recvy_entry_www.prl](http://www.ngs.noaa.gov/cgi-bin/recvy_entry_www.prl), the status “recovery report” of all NGS marks looked for or used for this project and include recovery reports with deliverables.  

**The Consultant shall Include a Surveyor’s Note on the cover sheet AND in the bottom right hand corner of each plan and cross-section sheet, or detail sheet, with the conversion factor to NGVD29 based on U.S. Army Corps of Engineers Corpscon 6.0.1.**  

*The following tasks are in priority order. Each task will have a separate schedule and deadline.*  

**Task 1**  
**KICK-OFF, FILED, PUBLIC MEETINGS**  
**STATUS REPORTS**
The Consultant shall setup a pre-proposal teleconference meeting with the appropriate District personnel to answer any questions.

- The District’s Survey Project Manager(s) are Michael O’Brien mobrien@sfwmd.gov and Greg Toolan gtoolan@sfwmd.gov
- SFWMD Executive Office Liaison, Armando Vilaboy, avilaboyu@sfwmd.gov
- The Engineering Construction, Project Manager for contracting and reporting is Matthew Alexander, malexand@sfwmd.gov.
- This pre-proposal meeting shall take place as soon as possible and shall include representatives of sub-consultants as well.
- All PMs shall be included in any correspondence and reporting.

Bi-weekly Status Reports
Consultant shall provide Bi-Weekly status reports (District PDF Template) for the project via email to listed project managers. The Status report shall list, identify % complete of each TASK 1-10. The status reports shall not constitute a deliverable for partial payment.

District Field Staff Meeting:
Pre-project on-site meet with District staff, site visit to observe areas of concern and local knowledge = 8hrs.

Public Meeting:
One on-site public or agency meeting = 6 hrs.

TASK 2: AERIAL IMAGERY/LIDAR.

General:

Prior to starting the work, the Consultant shall prepare an exhibit and a google earth kmz file of the survey limits for District review. The kmz shall be approved by the District’s Survey Project Managers for this work order. The LiDAR and imagery shall be acquired simultaneously using an approved aerial LiDAR and metric camera. Regardless of the conditions at the time the Aerial Imagery/LiDAR data is captured the responsibility to fly or not fly rest solely with the consultant.

Aerial Imagery:
The Consultant shall produce new high-resolution distortion-free aerial photogrammetry that will produce a clear and sharp image for the scale of the boundary survey. The photography shall be collected along the project corridor. The resolution shall be 3-inches or better.

All aerial photography shall be captured in the absence of haze, smoke, or dust. Clouds shall be absent and shadows from man-made objects shall be kept to a minimum. To this end, all aerial photogrammetric project work shall be accomplished under the supervision of a Photogrammetrist licensed by the State of Florida as a Professional Surveyor and mapper pursuant to Chapter 472, Florida Statutes and Certified by the American Society for Photogrammetry and Remote Sensing. The Photogrammetrist
shall make maximum utilization of his professional experience to select the technique or method conducive to superior results.

If **Unmanned Aerial Systems** (UAS) systems are utilized the Consultant shall adhere to all applicable FAA Rules, Florida Statutes and safety protocols pertaining to Drone/UAS operations is the sole responsibly and Liability of the Consultant and the District is held harmless for such operations. If used the Consultant shall place a note on each of the sheets within the drawing set, surveyor’s report, and the metadata file that states “Aerial Imagery displayed on this survey was acquired utilizing Unmanned Aerial System (UAS) platforms or methods. Imagery was acquired under contract with S.F.W.M.D. on dd-mon-yr. by Consultants firm. Resulting imagery products are specifically for informational or mapping purposes, not intended to and/or shall not be used for Regulatory Purposes.”

*It is the consultant’s responsibility to assure all applicable FAA, Florida Statues or local ordinances are reviewed and adhered to.

*Pilots shall be FAA107 certified and certification filed in District records.

**LiDAR:**

The Consultant shall provide a minimum 500-foot-wide strip (250’ on canal centerline) of LiDAR along the project corridor.

The LiDAR data shall provide a minimum of **30 points per square meter** (with overlap). The Consultant shall provide National Standards for Spatial Data Accuracy (NSSDA) analysis accuracy, flight line layout and swath layout. In addition to the above requirement and additional data from the FEMA standards for LiDAR. The above data shall be done under the direct supervision of a Florida Licensed Surveyor and Mapper that is a certified Photogrammetrist.

The LiDAR and imagery shall be acquired within 10 days of each other using an approved aerial LiDAR sensor and metric camera.

The LiDAR data shall meet or exceed the highest published standards.

The Consultant shall insure that there are **NO** data voids **greater than 15 linear feet** between the Hydrographic Survey and the LiDAR data.

Any voids measuring over 10,000 square feet that exist within the lidar data limits shall be delineated with a polygon to be provided to the District.

*The Consultant shall provide one LiDAR deliverables for this task.*

**TASK 3: HYDROGRAPHIC SURVEY**

The Consultant shall complete project planning, scheduling and implementation of the hydrographic survey utilizing a multi-beam unit collecting data from water’s edge to water’s edge all canals as shown in Exhibit “A”. The project corridor is 1.76 miles +/- in
length.

The survey shall include sufficient overlap of the multibeam passes and shall take an adequate number of independent verification shots to prove the data is acceptable. The Consultant shall establish and record the water surface elevation at the beginning and end of every hydrographic run (in NAVD88) and show it on the survey. The Consultant shall use NGS Benchmarks (or District approved) to establish the water surface elevation and conduct the hydrographic survey.

The Consultant shall insure that there are NO data voids greater than 15 linear feet between the Hydrographic Survey and the LiDAR data.

Any voids measuring over 10,000 square feet that exist within the lidar data limits shall be delineated with a polygon to be provided to the District.

Before working near any District structure, the Consultant shall get permission to from the District.

The Consultant shall complete project planning, scheduling and implementation of the hydrographic survey utilizing a multi-beam unit collecting data from water's edge to water's edge all canals as shown in Exhibit "A". The project corridor is +/- 1.76 miles in length. The survey shall include sufficient overlap of the multibeam passes and shall take an adequate number of independent verification shots to prove the data is acceptable. The Consultant shall establish and record the water surface elevation at the beginning and end of every hydrographic run (in NAVD88) and show it on the survey. The Consultant shall use NGS Benchmarks (or District approved) to establish the water surface elevation and conduct the hydrographic survey. The consultant shall utilize a 30° wedge to maximize the data collected within the void areas and up to the water’s edge. The consultant shall use a high accuracy inertial measurement unit for correction position, heading, heave, pitch, roll and sound velocity. Patch tests shall be performed prior to any multibeam data collection. The Consultant shall insure that there are NO data voids between the Hydrographic Survey and the LiDAR data. Before working near any District structure, the Consultant shall get permission to from the District.

**TASK 4: AUTOCAD XML FILE**

The Consultant shall combine Task 2 (the hydrographic data), Task 3 (the LiDAR Data), Task 4 the ground truthing points into one (1) AutoCAD surface (xml file) of the topographic data collected on this project.
The Consultant shall insure that there are NO data voids greater than 15 linear feet between the Hydrographic Survey and the LiDAR data.

Any voids measuring over 10,000 square feet that exist within the lidar data limits shall be delineated with a polygon to be provided to the District.

(left blank intentionally)

**TASK 5: PREPARE DIGITAL TERRAIN MODEL (DTM)**

Generate sufficient Break-Lines to determine project grade breaks, top of banks, toe-slopes by merging all data associated with the project as detailed in Task 2 and Task 3 above.

The Consultant shall prepare a DTM Model (point-files) of the entire projects Land and Bathymetric surface. Model Surface is to be one seamless above/below water lines with associated point files.

The Consultant shall create a break line between the hydrographic survey data and the LiDAR data collected.

The Consultant shall create a break line for the top of bank on both sides of the borrow canal.

The Consultant shall provide a points file of all the data collected.

The Consultant shall provide a metadata file. Along with the standard explanations the Consultant shall explain how the topographic and hydrographic data was merged, how break lines were created.

The Consultant shall insure that there are NO data voids greater than 15 linear feet between the Hydrographic Survey and the LiDAR data.

Any voids measuring over 10,000 square feet that exist within the lidar data limits shall be delineated with a polygon to be provided to the District.

Conflation or merging of the aerial Lidar and Hydrological data will be accomplished as follows:

1. Aerial LiDAR data will be ground classified to create a cleaned subset of “ground” points.
2. All other collected data (e.g. low & high vegetation) will be removed from the dataset.
3. Hydrologic data provided in X, Y, Z format and combined with the cleaned “ground” extracted from the full lidar dataset.
4. Break lines will be collected along the canals at the toes and tops of slope as well as along any “key features” such as rip-rap or other “hard surfaces” that may affect water flow through the canal corridor. These break lines shall be continuous. The Consultant shall insure that the break lines are in affect.
through the entire data set.
5. Hydrologic data will be imported, and a model key point classification will be run on the combined data set to reduce the file size.
6. Decimation of ground points will maintain a minimum of 8 points per meter to support typical USGS QL1 deliverables.
7. Full lidar ground point densities will be maintained along all "key features" such as rip-rap or other "hard surfaces" that may affect water flow through the canal corridor.
8. Model key points and break lines will be imported into C3D and used to create a final combined surface.

Deliverables for this task
- One (1) AutoCAD DTM file containing the combined surface data.
- One (1) AutoCAD XML file containing the combined surface data and associated break lines.
- One (1) Shape File of any/all voids within the lidar data that are over 10,000 square feet
- TIF Raster of combined DEM Surface at 1-foot resolution.
- Tiled Lidar Data of ground points combined with hydrographic data in LAS1.4 format.
- Tiled Lidar Data of all points in LAS1.4 format.
- Tiles will be contiguous and non-overlapping and will be suitable for creating a seamless image mosaic that includes no data void cells or gaps.
- 5000 foot x 5000 foot Tile index can be found here: https://floridarevenue.com/property/Pages/Cofficial_GIS.aspx
- The consultant will further break down the tile index into one-quarter tiles
- Tile naming convention is as follows:
  YYYY__NNNNNNQQ.LAS
  Where:
  YYYY = Ending year of the flying season that typically ends in March.
  NNNNNNQQ = Appropriate tile (cell) index number values from project tiling index provided to include the quadrant designation as a suffix.
  Example: Orthoimage tile that was acquired during the 2018-2019 flying season.
  2019_200001NE.tif

(left blank intentionally)

TASK 6: BOUNDARY SURVEY (Update of 2014 Survey)

Prepare an updated Boundary Survey (one set/product Boundary and Topographic survey).

1) C100A Segment No. 1:
   Portion of C100A: From the intersection of the C100C and C100A Canals (north boundary of Coral Park), to/through overpass of SW 168th Street.
Incorporate/update existing Woolpert 2014 Right-of-Way Survey and Baseline:

The Consultant shall utilize/incorporate the C100A 2014 Woolpert Boundary/Right-of-Way Survey for the Canal Boundary/Right-of-Way line positioning and reference to said product on the cover and applicable plan sheets of the survey.

Update Boundary/Easement/R/W Real Estate Interest information.

Update Boundary/Easement/R/W Monumentation

Update Surface and apparent physical use, improvements (apparent physical use within 5’ of boundary/easement lines).

Boundary Survey Standards:

If the Consultant requires additional research of records to identify with reasonable certainty, the location of the record boundaries, conflicting record and ownership boundary locations within, abutting, or affecting the property or access to same, the consultant shall request information from the District.

The title instruments that are the basis of the Boundary/Right-of-Way interest shall be noted on separate document key sheets. The location of the lines shall be clearly shown and delineated per instrument of record, on the Survey. This information will be displayed in similar fashion as the 2014 survey by Woolpert as mentioned above.

Establish and monument the C110A right of way at every change in direction, and/or 500 feet intervals maximum, at the intersections of section lines, and other right of ways. Set poured in place concrete monuments at changes in direction and iron rods and cap at 500 feet, when applicable. The concrete monumentation shall consist of a 1” to 1-W’ iron pipe with poured in place concrete collar or pre-cast 4” x 4” concrete monument, 30” in length minimum. The top of the monument shall be buried ± 0.5 ft below the ground surface. The monuments set along the boundary of the right of way shall have a SFWMD aluminum cap (supplied by District) stamped C100A R/W with applicable year. The Consultant will also stamp its LB number to all monuments set.

A carsonite stake (supplied by Contractor) shall be set by each monument. The Consultant shall clearly write with permanent ink the distance and direction to the monument on the carsonite posts.

Establish State Plane Coordinates, and latitude and longitude, on all boundary monumentation, found and/or set control points.

Certified Corner Records (CCR) & National Geodetic Monuments Reporting Complete Certified Corner Records for all found or set sectional breakdown corners, and file with DEP. The Consultant shall report to NGS through the online reporting system the status of all marks used. The deliverables are copies of the Certified Corner Records submitted to the State and the online reporting of any NGS monument used on this project.

Improvements

- Locate and tie all improvements within the right of way and canal maintenance easement and 10 feet outside. These include, but are not limited to: buildings, water control structures, gates, fences, rock rip rap, washouts, roads and/or driveways, overhead lines, utilities, swales, ditches, vehicle or pedestrian bridges, or utility overhead crossings (including material, dimensions, low member elevation, number of
pilings, type of embankment under bridge, etc.), culverts (including material, size, inverts, and dimensions), signs or mailboxes etc.

- Determine (label plat name book/page) the subdivisions adjacent to the C100A right of way.
- Determine the top of bank and ties to the right of way monuments.
- Determine the low wire clearance on all crossing overhead utilities.
- Locate all trees greater than 4-inch diameter, tree and/or vegetation outlines within the right of way.
- An independent tree table sheet shall be provided with tree ID, type, approximate size.

Delineate and map obvious or apparent areas of encroachments and/or “apparent physical use” by others (i.e., private landscaping, use, occupation maintenance etc.). If there are development walls or other distinct occupation along the right of way line (including landscape hedges, etc.), locations on the outside of the wall is not required.

**TASK 7: SET TWO VERTICAL CONTROL (BENCHMARKS)**

Deriving from NGS or approved published Benchmarks the Consultant shall set two new vertical control monuments with a minimum 6-hr. OPUS observation and supporting report.

Benchmarks shall be constructed of a minimum of 3ft iron-pipe with a poured-in-place concrete collar with supplied SFWMD Disc. stamped C100 A (1), (2) etc.

Note: Substitute surface location in a substantial concrete feature is allowed, as pre-approved by the District PMs

Location of two new Benchmarks:
1) North end project @ Coral Reef Park
2) Mid-Project @ Westerly projection of the SW 159 Terr. Right-of-Way (east bank C100A canal)

**SFWMD and OPUS Benchmark Description Reporting**

Complete the 2021 version SFWMD Survey benchmark description form for all set and/or found Vertical Control (Benchmarks) monumentation that are set by Third Order or better field observation procedures.

OPUS Observations:
Complete NGS 6-HR OPUS Observations on each Benchmark submit NGS report and copy in submittals.

Obtain/provide georeferenced photographs of BMs for report inclusions and submittals.

**TASK 8: TOPOGRAPHIC SURVEY**

**Establish Elevations**

All values on the final survey drawings shall be shown in 83/2011 North American Vertical Datum of 1988 (NAVD 88) values and provide the conversion factor to National Geodetic Vertical Datum 29 (NGVD29) as part of the Surveyor's Notes.

Establish elevations (NAVD 88) and locate all improvements and significant grade changes found within the topographic survey limits as shown on (Exhibit "A"). Spot
elevations in front of side culverts discharge.

**Cross Sections**

Establish canal cross sections at **500 feet intervals maximum** at straight ways and at 50 feet intervals for 100 feet on either side of the face of bridges or structures, at bends in the canal and at locations where the typical width of the canal changes, as specified in Exhibit A. The total estimated cross sections are ± 104. Elevations shall be collected at all grade changes, all significant features, the canal above and below water shelf and at 5-foot intervals in the canal and 10-foot intervals outside of the canal. The cross sections shall extend from the up to 10 feet outside the right of way/canal maintenance easement (see Exhibit A for details). Water cross sections will be collected using the side scan during Task 13 when possible. Some cross sections are expected to require manual probes, and various cross sections will be checked using single beam to validate the results of the side scan profile.

**Centerline Profile**

Perform a canal centerline profile (NAVD 88) along the limits of the project as indicated in Exhibit A. Elevations shall be collected at all grade changes, depressions, rises, etc. and at a maximum of 25 feet intervals.

**Side Slopes Erosion**

Determine the canal side slopes’ erosion and undercutting locations and extend by using side scanning methods and probing if necessary. Identifying/mapping (hatched areas) areas of visible or significant canal embankment erosion or shelf “caving”. (Provided independent sheet(s) if necessary)

**TASK 9: PREPARE SURVEY DRAWING/MAP SET**

(one set/product Boundary and Topographic survey).

Prepare survey drawing to include, but not limited to the following:

1. A cover sheet (supplied by District) with location sketch, image of project site, surveyor’s notes, legend and certification.
2. An overall key sheet of the legal descriptions used to determine the boundary; color coded by each spell out description.
3. An overall key sheet with aerial image depicting the survey location with set and/or found control points (show PID), the set control points, and traverse points. All labeled with found or set, state plane coordinates and latitude and longitude (NAD83), elevation (NAVD88). Scale it appropriately to show all control points, section corners (show CCR number), and traverse points used.
4. Plan sheets showing the boundary survey with image, boundary line improvements, subdivisions adjacent to the right of way, top of bank with ties to the right of way, topographic features of C-100A, the centerline/baseline stations, control points, carsonite post distance and direction from monuments, traverse points all labeled with state plane coordinates and latitude and longitude (NAD83), labeled control points and traverse points with elevations in NAVD88 values; the dimensioned right of way, cross section locations and erosion extent
and undercuts location. The drawing scale shall be 1” = 50’ or as agreed with the District prior to commencing project.

5. Profile sheet(s) showing canal centerline elevations at 25’ intervals (NAVD88) and the alignment with US Army Corps of Engineers centerline/baseline stations along C-100A, cross section locations with spot elevations 5’ intervals in the canal and 10’ interval in the overbank. The drawing scale shall be 1” = 50’.

6. Cross section sheets showing all grade brakes, water surface elevation, top of bank, and all other significant features including the design section if supplied. The drawing scale shall be 1” = 50’ horizontal and 1” = 10’ vertical. Show bridge configuration on the cross sections of the bridges/structures face (downstream side view).

7. An independent sheet(s) identifying/mapping (hatched areas) area of visible or significant canal embankment erosion or shelf “caving”.

8. An independent tree table shall be provided with tree ID, type, approximate size.

9. Show details or detail sheets if necessary, for clarity.

**TASK 10: PRELIMINARY SUBMITTAL**

Submit BI-Weekly email status reports to all PMs listed in TASK 1
Preliminary submittal shall be a +/- 90% product.
Provide electronic (Bookmarked) of the preliminary survey for District review and approval prior to submittal of final deliverables.
Provide one (1) signed and dated SFWMD Checklist.
Provide one (1) field notes, (2) benchmark description sheets, (3) e-Transmit AutoCAD file and any necessary electronic files to substantiate the survey results.

*Submittals due prior to project deadline, see EXD Payment and Delivery Schedule.*

**5.0 PERFORMANCE**

The Consultant's performance for this work order will be evaluated at the following frequencies:

1. Interim
2. Final
3. Additional evaluations as determined by the Project Manager

A Running Average Score 3.0 is required to maintain active contract status.

**6.1 FINAL DELIVERABLES**

*Submittals due prior to project deadline, see EXD Payment and Delivery Schedule.*

1. Four (4) signed and sealed paper copies of the survey drawing.
2. Two (2) Hard Drives containing the following:
   - A full project eTransmit drawings file in AutoCAD (Civil 3D) Version 2010 or later.
• The drawing in PDF (bookmarked) format.
• Scanned images of field notes.
• Any other digital files associated with the survey.
• Scanned images of all paper copies of information associated with the survey.
• District benchmarks (2) description sheets for each set vertical (benchmark) control point as entered. (not to include canal control set using RTK).
• District benchmarks (2) OPUS Solution vertical (benchmark) control point reports as entered into NGS database. (not to include canal control set using RTK).
• Certified corner records as submitted to FDEP.
• ESRI shapefile of the right of way.
• Applicable ASCII X, Y,Z text file of the bathymetry data.
• Applicable XML files of all points and surfaces.

(Left blank intentionally)

EXHIBIT “A”
PROJECT LIMITS
EXHIBIT “C-1”  
PAYMENT AND DELIVERABLES SCHEDULE

Payment shall be made on a fixed price basis in the fixed amounts specified below for each deliverable following receipt and acceptance by the District in accordance with Article 3 of Exhibit “A” of the Contract’s General Terms and Conditions. All invoices shall be substantiated by adequate supporting documentation for hours and expenses incurred in accordance with Article 3 of Exhibit “A”.

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<thead>
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<th>TASK</th>
<th>DESCRIPTION</th>
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<td>TASK 1</td>
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<td>TASK 6</td>
<td>LAND CROSS SECTIONS -TOPO IN BACKYARDS</td>
<td>12/15/2022</td>
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<td>TASK 7</td>
<td>HYDROGRAPHIC SURVEY (Sub-Consultant)</td>
<td>01/25/2023</td>
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<td>TASK 8</td>
<td>LIDAR AND IMAGERY ACQUISITION/DATA PROCESSING</td>
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<td>TASK 9</td>
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<td>20 BUSINESS DAYS PRIOR TO FINAL SUBMITTAL</td>
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<td>TASK 10</td>
<td>FINAL SUBMITTALS</td>
<td>SIX-MONTHS FROM NOTICE TO PROCEED WORK ORDER</td>
<td>$16,759.80</td>
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TOTAL WORK AMOUNT $300,632.73
Project SFWMS (Palmetto Bay Canals - Year 1)

Woolpert, Inc.

Date: 02-02-2022

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<th>Chief Surveyor</th>
<th>Lead Surveyor</th>
<th>Design Engineer</th>
<th>CAD Technician</th>
<th>Survey Technician Office</th>
<th>GIS/RS Technician</th>
<th>2-Man Field Crew</th>
<th>3-Man Field Crew</th>
<th>4-Man Field Crew</th>
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**Project SFWMS**

**Prep for project, kick off meeting, review with staff, build plan, organize existing data**

**Review source documents, search for NGS control, section corners, etc.**

**Sight reconnaissance and recovering and surveying control along canal.**

**Site recon and setting control pairs along canal.**

**Control processing, finalize coordinate values.**

**SFWMD Benchmark Description Reporting**

**CAD in ROW documents, Sections, Plats, Easements, Parcel Deeds**

**Template report, maps, exhibits**

**Survey (recover) Plat PCP’s, property corners along face of street, and set control as necessary**

**Survey ROW control, back property corners**

**Analysis of survey results, search for additional information, CAD update, finalize boundary**

**Complete and File Certified Corner Records**

**Water cross sections (Hydrographic Crew)**

**Topo from edge of water to fence line @ 1000’ per day (3-man crews)**

**CAD for Cross Sections Profiles and Topo**

**First Pass: Topo and extend Xsections into yards (approx 90 parcels)**

**Second Pass: Assume 40% were not accessible (36 parcels)**

**CAD for Cross Sections and Topo**

**Monumentation set or recovery (one conc. mon. every change in direction (120), rebar and cap elsewhere as necessary**

**Biweekly status reports to SFWMD**

**Lidar and Imagery Acquisition (Lump Sum)**

<table>
<thead>
<tr>
<th>Chief Surveyor</th>
<th>Lead Surveyor</th>
<th>Design Engineer</th>
<th>CAD Technician</th>
<th>Survey Technician Office</th>
<th>GIS/RS Technician</th>
<th>2-Man Field Crew</th>
<th>3-Man Field Crew</th>
<th>4-Man Field Crew</th>
<th>5-Man Field Crew</th>
<th>Field Crew (Miscellaneous)</th>
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**TOTAL HOURS: 324**

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<th>Chief Surveyor</th>
<th>Lead Surveyor</th>
<th>Design Engineer</th>
<th>CAD Technician</th>
<th>Survey Technician Office</th>
<th>GIS/RS Technician</th>
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<th>Field Crew (Miscellaneous)</th>
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**TOTAL HOURS: 324**
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<tr>
<th>TASK</th>
<th>PROJECT SCOPE-OUTLINE</th>
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<th>VILLAGE COST SHARE 50%</th>
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<tr>
<td>1</td>
<td>PREPARATIONS-SETUP-MEETINGS</td>
<td>$9,256.08</td>
<td>$4,628.04</td>
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<td>2</td>
<td>SET (RECOVER) AND SURVEY BASELINE CONTROL</td>
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<td>3</td>
<td>TOPOGRAPHIC SURVEY AND MAPPING - PREDETERMINED PARCELS-SITES.</td>
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<td>BOUNDARY SURVEY &amp; SET ROW MONUMENTATION</td>
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<td>5</td>
<td>CANAL CROSS SECTIONS AND TOPO</td>
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<td>LAND CROSS SECTIONS -TOPO IN BACKYARDS</td>
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<td>LIDAR AND IMAGERY ACQUISITION/DATA PROCESSING</td>
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<td>9</td>
<td>PRELIMINARY SUBMITTAL</td>
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<td>10</td>
<td>FINAL SUBMITTAL (SIX MONTHS FROM NOTICE TO PROCEED)</td>
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<td>TOTAL LUMP SUM COST</td>
<td><strong>$300,632.73</strong></td>
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M E M O R A N D U M

TO: Governing Board Members

FROM: Candida Heater, Administrative Services, Facilities Bureau

DATE: August 11, 2022

SUBJECT: Security Services Contract, Allied Universal Security Services, LLC

Agenda Item Background:
Staff requests authorization to enter into a 3-year contract with two 1-year optional renewals with Universal Protection Services, LLC d/b/a Allied Universal Security Services, LLC for security services. Allied Universal will provide professional security services to ensure a safe and effective working environment for employees located at the District’s headquarters facility. Services include 24-hour monitoring of security systems, daily visitor control, ID badge and access control assistance, crowd control and site security. Security services have been traditionally outsourced by the District because the District does not have the positions or staff trained to provide these services. Allied Universal is a vendor that was awarded a contract for security services through a competitive bid process administered by the State of Florida (Contract No. 92121500-20-1) which the District is permitted to utilize for its own security services.

The total amount of the 5-year contract, including the two 1-year optional renewals is $1,907,900.

Core Mission and Strategic Priorities:
This item supports the District’s need to provide a safe and secure environment for employees, tenants, and visitors and to protect the District’s physical assets located at its headquarters facility located in suburban West Palm Beach. The General Services Section in the Administrative Services Division will be responsible for implementing this contract.

Funding Source:

Staff Contact and/or Presenter:
Candida Heater, cheater@sfwmd.sfwmd.gov, 561-682-6486

ATTACHMENTS:
Resolution No. 2022-0804
Backup Document
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2022-08XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 3-year contract with two 1-year renewal options with Universal Protection Services, LLC d/b/a Allied Universal Security Services, LLC for security services at the District’s headquarters facility in West Palm Beach, using the State of Florida term contract, in an amount not-to-exceed $1,907,900 for which $359,361.60 is subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and the remainder is subject to Governing Board approval of future years budgets; providing an effective date. (Contract No. 4600004624)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate, and in the public interest to enter into a 3-year contract with two 1-year renewal options with Universal Protection Services, LLC d/b/a Allied Universal Security Services, LLC for providing security services at the District headquarters facility in West Palm Beach, using the State of Florida term contract, in an amount not-to-exceed $1,907,900 for which $359,361.60 is subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and the remainder is subject to Governing Board approval of future years budgets.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into a contract with Allied Universal Security Services, LLC, to provide security services at the District’s headquarters facility in West Palm Beach, using the State of Florida term contract, in an amount not-to-exceed $1,907,900 for which $359,361.60 is subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004624)

Section 2. This Resolution shall take effect immediately upon adoption.
### Allied Universal Billing

<table>
<thead>
<tr>
<th>Annual Staffing &amp; Costs</th>
<th>Bill Rate/Hour</th>
<th>Holiday or OT Rate/Hour</th>
<th>Assigned Hours/Week</th>
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<td>Security Officer Level II in Control Room (Holidays)</td>
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<td><strong>TOTAL</strong></td>
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<td><strong>$359,361.60</strong></td>
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Note: 1. Holiday Premium based on 6 Holidays per year (144 Hours/year)

The following is the calculated annual amounts per fiscal year, providing for a 3% maximum annual adjustment per the attached Contract No. 92121500-20-1, Attachment B Statement of Work (SOW) 21.1 Price Adjustments provision, pages 23 & 24, found on page 26 out of 204 pages of the document:

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Please be advised that due to recent changes in minimum wage and difficulty of contractors in finding employees at the current rates of pay, the state intends to go out for a new contract soon per 7/06/22 telephone conversation with Frank Miller, Florida Division State Purchasing Contract Manager, Phone: 850-488-8855, email: Frank.Miller2@dms.myflorida.com
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<th>Bill Rate</th>
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<td>Level II: Security Officer</td>
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<td>218</td>
<td>$16.35</td>
<td>$26.00</td>
<td>$5,668.00</td>
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**ESTIMATED TOTAL ANNUAL INVESTMENT**: $354,629.60

The quote provided above is based on the Florida Department of Management Services State Term Contract No. 92121500-20-1 For Security Guard Services. The state contract term is effective 03/03/2020 and will remain in effect for five (5) years. This quote is valid for the "Effective Date" shown above. The quote can be renewed annually.

We look forward to continuing our partnership.

Best Regards,

Jennifer Kuchler

Jennifer Kuchler  | DMS Contract Manager  | Allied Universal  | 561.386.0469 |
### REGION 10: Long Term
**EFFECTIVE DATE: 10/01/2023 - 09/30/2024**

<table>
<thead>
<tr>
<th>Description</th>
<th>Officers</th>
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<th>Pay Rate</th>
<th>Bill Rate</th>
<th>Estimated Weekly Cost</th>
<th>OT HPW</th>
<th>OT/HOL Bill Rate</th>
<th>Annual HOL Cost</th>
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<tbody>
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**ESTIMATED TOTAL ANNUAL INVESTMENT**

$365,099.80

The quote provided above is based on the Florida Department of Management Services State Term Contract No. 92121500-20-1 For Security Guard Services. The state contract term is effective 03/03/2020 and will remain in effect for five (5) years. This quote is valid for the "Effective Date" shown above. The quote can be renewed annually.

We look forward to continuing our partnership.

Best Regards,

Jennifer Kuchler

Jennifer Kuchler  | DMS Contract Manager  | Allied Universal  | 561.386.0469  |
<table>
<thead>
<tr>
<th>Description</th>
<th>Officers</th>
<th>HPW</th>
<th>Pay Rate</th>
<th>Bill Rate</th>
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**ESTIMATED TOTAL ANNUAL INVESTMENT**

$375,818.20

The quote provided above is based on the Florida Department of Management Services State Term Contract No. 92121500-20-1 For Security Guard Services. The state contract term is effective 03/03/2020 and will remain in effect for five (5) years. This quote is valid for the "Effective Date" shown above. The quote can be renewed annually.

We look forward to continuing our partnership.

Best Regards,

Jennifer Kuchler

Jennifer Kuchler  |  DMS Contract Manager  |  Allied Universal  |  561.386.0469  |
### Initial Term Pricing
#### Security Guard Services

<table>
<thead>
<tr>
<th>Service Description</th>
<th>Unit of Service</th>
<th>Region 1</th>
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#### Long Term Commitment: One or more years

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<tbody>
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#### Part-Time: 1 to 34 hours per week

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<th>Region 5</th>
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<th>Region 8</th>
<th>Region 9</th>
<th>Region 10</th>
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</thead>
<tbody>
<tr>
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### Attachment A: Price Sheet

**Security Guard Services (92121500-20-1)**

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<td><strong>Full Time:</strong> 35 to 40 hours per week</td>
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<tr>
<td><strong>Occasional:</strong> Days, hours, and frequency may vary. This type of service includes regularly scheduled events held monthly, quarterly, or semi-annually, or single events or circumstances.</td>
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### Initial Term Pricing

#### Ancillary Equipment

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</table>
Region Map

Region 1
Region 2
Region 3
Region 4
Region 5
Region 6
Region 7
Region 8
Region 9
Region 10
Region 11

Security Guard Services
M E M O R A N D U M

TO: Governing Board Members

FROM: Candida Heater, Administrative Services, Budget Bureau

DATE: August 11, 2022

SUBJECT: Amendment to Adopted Fiscal Year 2021-2022 Budget

Agenda Item Background:
The Governor signed into the Laws of Florida, Chapter 2022-156 House Bill No. 5001 which includes, Specific Appropriation 1647 Grants and Aids to Local Governments and Nonstate Entities - Fixed Capital Outlay Everglades Restoration from the Land Acquisition Trust Fund that included $86,500,000 for Restoration Strategies Regional Water Quality Plan and from Section 197. Land Acquisition from the General Revenue Fund $35,000,000 for the Green Heart of the Everglades, subject to appraisal. These intergovernmental funds were not included in the District’s Fiscal Year 2021-2022 Adopted Budget. Pursuant to the requirements of Section 373.536(4)(c), Florida Statutes, “If the district receives unanticipated funds after the adoption of the final budget, the final budget may be amended, following review and approval by the Executive Office of the Governor, by including such funds, if notice of intention to amend is provided to the Legislative Budget Commission and is published in the notice of the governing board meeting at which the amendment will be considered, pursuant to Section 120.525, Florida Statutes.” The notice must set forth a summary of the proposed amendment. The District anticipates requiring $45,000,000 from the Florida Department of Environmental Protection (DEP) to facilitate and support the payment of invoices for Restoration Strategies Projects (STA-1W Expansion #2, C-139 Flow Equalization Basin) from the 2022 General Appropriations Act 1647 and $300,000 to conduct two appraisals, an environmental phase I assessment and a cultural resource assessment, for the Green Heart of the Everglades land acquisition from the 2022 Section 197 Land Acquisition appropriated to the DEP for transfer to the District. The District’s Fiscal Year 2022-2023 Tentative Budget will be reduced by the respective amounts, if approved, and the remaining balance of the specific appropriations will remain in the District’s Fiscal Year 2022-2023 Budget subject to Governing Board approval and adoption on September 20, 2022.

Core Mission and Strategic Priorities:
This project will support the District’s mission Restoration of Water Resources and Ecosystems: Safeguarding and Restoring South Florida’s Delicate Ecosystem.

Funding Source:
The funding source is the 2022 Specific Appropriation 1647 Grants and Aids to Local Governments and Nonstate Entities - Fixed Capital Outlay Everglades Restoration from the Land Acquisition Trust Fund and Section 197 Land Acquisition from the General Revenue Fund.

Staff Contact and/or Presenter:
Candida Heater, cheater@sfwmd.gov, 561-682-6486
Julie Maytok, jmaytok@sfwmd.gov, 561-682-6027
ATTACHMENTS:

EOG Approval Letter

Resolution No. 2022-0805

Resolution Exhibit A
July 26, 2022

Candida Heater, Director
Administrative Services
South Florida Water Management District
3301 Gun Club Road
West Palm Beach, Florida 33406

Dear Ms. Heater:

Pursuant to your request, Budget Amendment #2022-01, dated July 19, 2022, and in accordance with section 373.536(4)(c), F.S., Florida Statutes, the Executive Office of the Governor hereby approves the amendment to your district's final budget for Fiscal Year 2021-22 as requested.

Sincerely,

Brandi Gunder, Deputy Director of Budget
Office of Policy and Budget

BG/gh

cc: Department of Environmental Protection, Division of Administrative Services
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2022 - 08XX

A Resolution of the Governing Board of the South Florida Water Management District to implement from the 2022 Legislative Session Specific Appropriation 1647 Grants and Aids to Local Governments and Nonstate Entities - Fixed Capital Outlay Everglades Restoration from the Land Acquisition Trust Fund in an amount of $45,000,000 for Restoration Strategies Regional Water Quality Plan and from Section 197. Land Acquisition from the General Revenue Fund $300,000 for the Green Heart of the Everglades; and authorize the Executive Director or Designee to execute agreements at no cost to the District with the Florida Department of Environmental Protection; and authorize an amendment to the Adopted Fiscal Year 2021-2022 budget; providing an effective date.

WHEREAS, The Governor signed into the Laws of Florida, Chapter 2022-156 House Bill No. 5001 which includes, Specific Appropriation 1647 Grants and Aids to Local Governments and Nonstate Entities - Fixed Capital Outlay Everglades Restoration from the Land Acquisition Trust Fund that included $86,500,000 for Restoration Strategies Regional Water Quality Plan and from Section 197. Land Acquisition from the General Revenue Fund $35,000,000 for the Green Heart of the Everglades, subject to appraisal.; and

WHEREAS, the Governing Board of the South Florida Water Management District (District) authorizes the Executive Director, or designee, to execute an agreement with the Florida Department of Environmental Protection (DEP), at no cost to the District, for the implementation of Specific Appropriation Section 197; and

WHEREAS, the Executive Director of the District, or Designee, is authorized to request distribution, transfer, release, advance, and reimbursement of appropriations, through the General Appropriations Acts, consistent with Florida Statutes including Chapter 216, Chapter 373, and Chapter 375; and

WHEREAS, the Governing Board of the District on September 21, 2021 adopted Resolution No. 2021 - 0928 "Adopting the Final Budget for Fiscal Year 2021-2022"; and

WHEREAS, the Governing Board of the District authorizes an amendment to the Adopted Fiscal Year 2021-2022 Budget to recognize $45,000,000 of Intergovernmental Revenue from the Department for Specific Appropriation 1647 and $300,000 of Specific Appropriation Section 197; and

WHEREAS, pursuant to Section 373.536(4), Florida Statutes, if the District receives unanticipated funds after the adoption of the final budget, the final budget may be amended, following review and approval by the Executive Office of the Governor; and
WHEREAS, pursuant to Section 373.536(4), Florida Statutes, the notice of intention to amend was published in the notice of the Governing Board meeting at which the Budget Amendment will be considered; and

WHEREAS, implementation of this Budget Amendment is contingent upon approval by the Executive Office of the Governor; and

WHEREAS, consistent with specific appropriation 1647 and Section 197 language and in accordance with the procedures set forth in the executed agreements, the DEP shall disburse to the District $45,300,000.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the District hereby approves implementing from Chapter 2022-156 House Bill No. 5001 Specific Appropriation 1647 Grants and Aids to Local Governments and Nonstate Entities - Fixed Capital Outlay Everglades Restoration from the Land Acquisition Trust Fund in an amount of $45,000,000 for Restoration Strategies Regional Water Quality Plan and from Section 197. Land Acquisition from the General Revenue Fund $300,000 for the Green Heart of the Everglades.

Section 2. The Governing Board of the South Florida Water Management District does hereby authorize the Executive Director of the District, or Designee, to execute funding agreements with the Florida Department of Environmental Protection and to request distribution, transfer, release, advance, and reimbursement to implement Specific Appropriation 1647 and Section 197. Any such reimbursement requests are hereby authorized on a monthly and/or quarterly basis.

Section 3. Funds disbursed from the DEP to the District to implement Specific Appropriation 1647 and Section 197 shall be subject to the requirements of the Section 215.97, Florida Statutes, (The Florida Single Audit Act) and Section 216.181(16)(b), Florida Statutes.

Section 4. The Governing Board of the District hereby approves amending the Adopted Fiscal Year 2021-2022 Budget as presented in Exhibit “A”, which is attached hereto and made part hereof.

Section 5. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of August, 2022.
## SOUTH FLORIDA WATER MANAGEMENT DISTRICT
### RESOLUTION NO. 2022 - XXXX
#### FISCAL YEAR 2021-2022 BUDGET AMENDMENT

### ESTIMATED REVENUES, TRANSFERS AND BALANCES

<table>
<thead>
<tr>
<th>Description</th>
<th>General Fund</th>
<th>Total Special Revenue Funds</th>
<th>Total Capital Projects Fund</th>
<th>Internal Service Funds</th>
<th>Total Trust &amp; Agency Fund</th>
<th>Total Final Budget</th>
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</thead>
<tbody>
<tr>
<td>Fund Balance, beginning of year (Net of Encumbrances)</td>
<td>44,121,602</td>
<td>164,433,052</td>
<td>22,400,582</td>
<td>-</td>
<td>16,397,171</td>
<td>247,352,407</td>
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<tr>
<td>Net Assets, beginning of year</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>12,849,572</td>
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<tr>
<td><strong>Sub-Total</strong></td>
<td>44,121,602</td>
<td>164,433,052</td>
<td>22,400,582</td>
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<td>16,397,171</td>
<td>260,201,979</td>
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<td>Encumbrances Funded By Future Cash Reimbursement</td>
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<td>Encumbrances Funded By Fund Balance</td>
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<td><strong>Total Estimated Fund Balance and Net Assets, beginning of year</strong></td>
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<td>12,912,383</td>
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### Fiscal Year 2021-22 Amended Revenue

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<td>Operating Transfers (Net)</td>
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<td><strong>TOTAL</strong></td>
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### BUDGETED EXPENDITURES AND ENCUMBRANCES

#### Administrative Services & Executive Offices

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<th>Description</th>
<th>General Fund</th>
<th>Total Special Revenue Funds</th>
<th>Total Capital Projects Fund</th>
<th>Internal Service Funds</th>
<th>Total Trust &amp; Agency Fund</th>
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#### Big Cypress Basin

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<th>Total Special Revenue Funds</th>
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#### Ecosystem Restoration & Capital Projects

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#### Field Operations Division

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#### Information Technology Division

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<th>Internal Service Funds</th>
<th>Total Trust &amp; Agency Fund</th>
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#### Real Estate & Land Management Division

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<th>Total Capital Projects Fund</th>
<th>Internal Service Funds</th>
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</thead>
<tbody>
<tr>
<td>Water Resources Planning and Monitoring</td>
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### Estimated Revenues, Transfers and Future Design. Balances

<table>
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<th>Category</th>
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<tbody>
<tr>
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<tr>
<td>Intergovernmental</td>
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<tr>
<td>Operating Transfers (Net)</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>$1,832,560,700</td>
</tr>
</tbody>
</table>

### Resolution Attachment A - Page 1 of 2
### EXHIBIT A
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
RESOLUTION NO. 2022 - XXXX
FISCAL YEAR 2021-2022 BUDGET AMENDMENT

<table>
<thead>
<tr>
<th>TOTAL SPECIAL</th>
<th>TOTAL CAPITAL</th>
<th>INTERNAL</th>
<th>TRUST &amp; AGENCY</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUND</td>
<td>REVENUE</td>
<td>PROJECTS</td>
<td>SERVICE</td>
<td>FUND</td>
</tr>
<tr>
<td>GENERAL</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Regulation Division
- **Water Resources Planning and Monitoring**: 11,746, 4,500, -
- **Operation and Maintenance of Lands and Works**: 16,960, 21,460, -

#### Regulation Division Total: 14,362,696, 4,500, -

#### Water Resources Division
- **Water Resources Planning and Monitoring**: 14,409,832, 5,796,393, 589,260, -
- **Land Acquisition, Restoration and Public Works**: 5,889,200, 14,603,907, 18,000, -
- **Operation and Maintenance of Lands and Works**: 328,846, 1,709,784, 96,000, -
- **District Management and Administration**: 90,061, -

#### Water Resources Division Total: 20,717,939, 22,110,084, 703,260, -

#### CERP - Central Service Indirect Costs
- **Land Acquisition, Restoration and Public Works**: 3,332,968, -
- **District Management and Administration**: (3,332,968), -

#### CERP - Central Service Indirect Costs Total: -

#### Reserves/Debt/Charges
- **Water Resources Planning and Monitoring**: -, 1,691,131, -
- **Land Acquisition, Restoration and Public Works**: -, -
- **Operation and Maintenance of Lands and Works**: 15,742,735, 46,468,511, -

#### Res/Debt/Charges Total: 20,353,903, 51,700,961, 30,354,252, -

Total Amended Budgeted Expenditures: 136,874,561, 287,889,611, 735,187,459, 35,656,685, 28,880, 1,195,646,196

Encumbrances (Estimate): 13,460,862, 112,202,766, 400,832,914, 62,811, 0, 526,559,353


### NET ASSETS, RESTRICTIONS, COMMITMENTS AND UNASSIGNED

#### Net Assets (Self Insurance Fund Actuarial Need)
- -

#### Net Assets (Health Insurance Fund - Fund Balance Utilization)
- - 9,178,954 -

#### Nonspendable
- **Inventory Reserve**: -
- **Big Cypress Basin**: -
- **General Fund**: -
- **Okeechobee Basin**: -
- **Permanent Fund:Principal Portion**: -

#### Restricted for Fiscal Year 2022-23 - Fiscal Year 2025-26
- **Big Cypress Basin**: 5,802,488 -
- **Budget Stabilization & Future Expenditures to be Determined by the Governing Board**: -
- **Everglades License Tag Balances**: -
- **Florida Bay Seagrass Monitoring**: -
- **Future Land Acquisition (Surplus Land Sales Revenues)**: -
- **Land Management (Lease Revenue)**: -
- **Mitigation - Lakebelt**: -
- **Mitigation - Wetland**: -
- **O&M Canal Conveyance Program**: -
- **O&M New Works**: -
- **O&M Okeechobee Field Station**: -
- **Restoration Strategies**: -
- **S-332 B Replacement Payment from USACE**: -
- **Self-Insurance Programs**: -
- **Senate Bill 10 Projects Pursuant to 375.041 (3)(b)(4) F.S.**: -

#### Committed for Fiscal Year 2022-23 - Fiscal Year 2025-26
- **Budget Stabilization & Future Expenditures to be Determined by the Governing Board**: 2,525,748 -
- **O&M Clewiston Field Station Rehabilitation**: 500,000, 4,500, -
- **O&M Flood Protection Level of Service**: 500,000, -
- **O&M New Works**: 2,145,875, -
- **Restoration Strategies**: -

#### Total Net Assets, Restrictions and Commitments: 5,671,623, 66,825,059, 8,611,726, 12,849,572, 16,397,171, 110,355,151

Unassigned:
- -

### TOTAL AMENDED BUDGETED EXPENDITURES, ENCUMBRANCES, NET ASSETS, RESTRICTIONS, COMMITMENTS AND UNASSIGNED

$156,007,046, $466,926,436, $1,143,623,099, $48,569,068, $16,426,051, $1,832,560,700
MEMORANDUM

TO: Governing Board Members

FROM: Alan Shirkey, Ecosystem Restoration & Capital Projects

DATE: August 11, 2022

SUBJECT: Roof Maintenance and Inspection Program

Agenda Item Background:
As part of the Operations and Maintenance Capital Improvement Program, the Roof Maintenance and Inspection (RMI) Program covers the 16 counties within the District’s boundary. The RMI Program identifies deficiencies and provides recommendations for repairs, allowing action to be taken to eliminate further disintegration of damaged roofs resulting in the protection of the building envelope, equipment used to operate the pump station, and staff working within the building.

Staff is requesting Governing Board approval to enter into a contract with Advanced Roofing, Inc. for the implementation of the District’s Roof Maintenance and Inspection Program, using the Pinellas County, Florida, executed agreement 190-033-CP, for 3-years with optional two 1-year extensions, in an amount not-to-exceed $2,500,000.

Core Mission and Strategic Priorities:
Additional Item Background:
The Roof Maintenance Inspection Program (RMI) was initiated to provide a specialized and thorough inspection and evaluation of District’s roofs by a certified roofing consultant and implement remediation to damaged or improperly designed or constructed roofs. This allows for substantial longevity in buildings and equipment which translates to savings to the District. The program was initiated in 2009 and has evolved to include moisture surveys and inspection of the building envelope to identify repairs needed to extend the life of the roofs. The District’s roof inventory includes pump stations, field station buildings, and administration buildings. The current RMI Program includes 191 roofs.

The RMI Program will add an annual inspection of roofs with active warranties. All other roofs will remain on a 5-year inspection cycle. In addition, basic maintenance will be performed during the inspections, and minor repairs completed on a not-to-exceed basis.

Core Mission and Strategic Priorities:
The Roof Inspection and Maintenance Program supports the District’s core missions of flood control, water supply, and ecosystem restoration.

Funding Source:
Subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget.

Staff Contact and/or Presenter:
Alan Shirkey, ashirkey@sfwmd.gov; 561-682-2579
ATTACHMENTS:

Resolution No. 2022-0806

Backup Document
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Resolution No. 2022 - 08XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 3-year contract, with two 1-year renewal options with Advanced Roofing, Inc., to provide Roof Inspection and Maintenance Services for the Roof Inspection and Maintenance Program, using the Pinellas County Roofing Services & Supplies, Waterproofing & Related Products and Services Contract and rate schedule, in an amount not-to-exceed $2,500,000, for which $500,000 in Ad Valorem funds are subject to Governing Board approval of the Fiscal Year 2022-2023 Adopted Budget and the remainder is subject to Governing Board approval of future years budgets; providing an effective date. (Contract No. 4600004589)

WHEREAS, the Governing Board of the South Florida Water Management District deems it necessary, appropriate and in the public interest to enter into a 3-year contract, with two 1-year renewal options with Advanced Roofing Inc, to provide Roof Inspection and Maintenance Services for the Roof Inspection and Maintenance Program (RMI Program), using the Pinellas County Roofing Services & Supplies, Waterproofing & Related Products and Services Contract and rate schedule, in an amount not-to-exceed $2,500,000.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District authorizes entering into a 3-year contract, with two 1-year renewal options with Advanced Roofing Inc, to provide Roof Inspection and Maintenance Services for the Roof Inspection and Maintenance Program (RMI Program), using the Pinellas County Roofing Services & Supplies, Waterproofing & Related Products and Services Contract and rate schedule in an amount not-to-exceed $2,500,000. (Contract No. 4600004589)

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of August, 2022.
5-Year Roof Maintenance Inspection Program Contract

For roof inspection, basic maintenance, small repairs

Alan Shirkey, P.E.
Bureau Chief, Engineering & Construction
South Florida Water Management District
August 11, 2022
All 16 counties within the District
Roof Inspection Program initiated in 2009

- Includes pump stations, field station buildings, and administration buildings
- Moisture surveys & building envelope
- 5-year cycle

G-372: 16 large areas of wet insulation

G-372: Infrared thermogram showing wet areas underneath top ply
Scope

- **FY23 Improvements**
  - Annual inspections to maintain warranties
  - 5-year cycle on all other roofs
  - During inspections:
    - Basic Maintenance
    - Minor repairs on a Not-To-Exceed basis
    - SOW provided for extensive repairs

- **FY23-FY27 Contract:**
  - No RFB; using the Pinellas County, Florida, executed agreement 190-0336-CP with Advance Roofing, Inc.
  - 3-year plus two 1-year extensions option
  - Total estimated cost NTE: $2,500,000

Presenter: Alan Shirkey
Benefits:

- Provides specialized inspections and evaluations of roofs
- Meets warranty requirements
- Maintains roofs, extending the life of the roof systems
- Provides remediation plan for deficiencies
- Eliminates need for FS staff to inspect & identify repairs twice per year. Only post hurricane/storm season walk-thru required
- Identifies remaining service life
- Supports FEMA and/or other claims
MEMORANDUM

TO:          Governing Board Members
FROM:        Jennifer Reynolds, Ecosystem Restoration & Capital Projects
DATE:        August 11, 2022
SUBJECT:     Central Everglades Planning Project New Water Seepage Barrier Project,
              Miami-Dade County

Agenda Item Background:
As part of the Central Everglades Planning Project (CEPP), the CEPP New Water Seepage
Barrier Wall Project includes an underground cut-off wall along the Levee 31N (L-31N) and 8.5
Square Mile Area (SMA). The project minimizes seepage from Everglades National Park
(ENP) and mitigates regional flooding in urbanized areas. The Governing Board previously
approved building 2.3 miles of a seepage wall adjacent to the 8.5 SMA along the C-358 Canal
and the L-357W Levee. This new project includes construction of approximately 4.9 miles of a
seepage cut-off wall along the L-357W Levee from the end of the 2.3-mile segment to the
junction with the L-31N Levee. The lowest responsive and responsible bidder is
recommended for award. In accordance with District policy and consistent with state law for
Request for Bids procurements, this item was competitively bid through a sealed bid process.

Core Mission and Strategic Priorities:
The CEPP New Water Seepage Barrier Wall Project supports the District’s core mission of
ecosystem restoration and water quality improvement. Successful completion of the project
will assist in maximizing flows south while mitigating for seepage.

Funding Source:
The construction of the CEPP New Water Seepage Barrier Wall Project will be funded through
dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund) and ad valorem
funds.

Staff Contact and/or Presenter:
Jennifer Reynolds, jreynolds@sfwmd.gov, 561-682-6672
Alan Shirkey, ashirkey@sfwmd.gov, 561-682-2579

ATTACHMENTS:
Resolution No. 2022-0807
Backup Document
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Resolution No. 2022 - 08XX

A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 790-day contract with Geo-Solutions, Inc., the lowest responsive and responsible bidder, for the CEPP New Water Seepage Barrier Wall Project, in the amount of $42,258,301 for which $100,000 in dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund) and Ad Valorem funds are budgeted and the remainder is subject to Governing Board approval of future years budgets; providing an effective date. (Contract No. 4600004637)

WHEREAS, it is in the public interest to authorize entering into a 790-day contract with Geo-Solutions, Inc., the lowest responsive and responsible bidder for CEPP New Water Seepage Barrier Wall Project, in the amount of $42,258,301.

NOW THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT:

Section 1. The Governing Board of the South Florida Water Management District hereby authorizes entering into a 790-day contract with Geo-Solutions, Inc., for the CEPP New Water Seepage Barrier Wall Project, in the amount of $42,258,301 for which $100,000 in dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund) and Ad Valorem funds are budgeted and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004637)

Section 2. This Resolution shall take effect immediately upon adoption.

PASSED and ADOPTED this 11th day of August, 2022.
CEPP New Water Seepage Barrier Wall Project

Alan Shirkey, P.E.
Bureau Chief, Engineering and Construction
South Florida Water Management District
Governing Board
August 11, 2022
Location

 Presenter: Alan Shirkey
8.5 SMA Limited Curtain Wall

Extension of current 2.3 miles of limited curtain wall project

Presenter: Alan Shirkey
8.5 SMA Limited Curtain Wall - Update
CB Wall Start: Station 1887+00
CB Wall Stop: Station 2000+90
CB Wall complete: 11,390 feet (93.75%)
CB Wall Remaining: 760 feet (6.25%)
Project Completion by Early September 2022

Project Cost: $14,218,574.45
Paid to Date: $12,338,102.50
Remaining: $1,041,028.75
Current Construction

Trenching

CB Wall Construction
MEMORANDUM

TO: Governing Board Members

FROM: , Ecosystem Restoration & Capital Projects

DATE: August 11, 2022

SUBJECT: Basin Management Action Plan Update (Kevin Coyne and David Frady, Florida Department of Environmental Protection)

Agenda Item Background:
The objectives of the Northern Everglades and Estuaries Protection Program (NEEPP) are to protect and restore surface water resources and achieve and maintain compliance with water quality standards in the Northern Everglades region including the Lake Okeechobee Watershed (LOW), St. Lucie River Watershed (SLRW), and Caloosahatchee River Watershed (CRW). Implementation, reporting, and coordination of the NEEPP are executed by the three coordinating agencies: Florida Department of Environmental Protection (DEP), Florida Department of Agriculture and Consumer Services, and the District. As part of NEEPP, Basin Management Action Plans (BMAPs) address pollutant loading or total maximum daily loads (TMDLs). BMAPs utilize a phased implementation of comprehensive and innovative management strategies that promote timely, cost-effective actions and integration with other programs. Staff from the DEP will update the Governing Board on the status and progress of BMAPs in the Northern Everglades.

Core Mission and Strategic Priorities:
A BMAP is a framework for water quality restoration that contains stakeholder commitments, including local and state governments, to reduce pollutant loading through current and future projects and strategies. BMAPs contain a comprehensive set of solutions, such as permit limits on wastewater facilities, remediation plans for onsite sewage treatment systems, urban and agricultural best management practices, regional projects, and conservation programs designed to achieve pollutant reductions established by a TMDL. BMAPs build upon ongoing restoration in the LOW, SLRW, and CRW by identifying and implementing programs and projects necessary to achieve water quality and quantity objectives for the watersheds. These broad-based plans are developed with local stakeholders and rely on local input and commitment for development and successful implementation. BMAPs are adopted by DEP Secretarial Order and are legally enforceable.

Funding Source:
NEEPP supplements other existing and planned projects and programs to achieve the District’s core mission to safeguard and restore South Florida’s water resources and ecosystems, protect our communities from flooding, meet the region’s water needs, and connect with the public and stakeholders.

Staff Contact and/or Presenter:
Presenters: Kevin Coyne and David Frady, Florida Department of Environmental Protection
SFWMD Contact: Megan Jacoby, mjacoby@sfwmd.gov, 561-682-6517
ATTACHMENTS:
MEMORANDUM

TO: Governor Board Members

FROM: , Executive Office

DATE: August 11, 2022

SUBJECT: Presentations for Agenda items 7, 19, 20, 21, and 22. Written public comment received for items 8 and 21.

Agenda Item Background:

Core Mission and Strategic Priorities:

Funding Source:

Staff Contact and/or Presenter:

ATTACHMENTS:

07 Bartlett ED Report
08 Public Comment Mike Knepper
19 Mitnik Water Conditions Report
20 Glenn Ecological Conditions Report
21 Reynolds CEPP New Water Seepage Barrier Wall Project
21 Public Comment Charles LaPradd
22 Blalock Coyne Frady BMAPs
Real Time Resiliency Metrics

Site: SNAKE CREEK CANAL AT S-29 AT NORTH MIAMI BEACH, FL

SNAKE CREEK CANAL AT S-29 AT NORTH MIAMI BEACH, FL  Latitude: 25.929081  Longitude: -80.151393

Current Conditions at S29

Figure 1 – Discharge capacity versus tidal elevation at coastal structures. (Source: Obeysekera et al., 2010 and Dessalegne, 2022)
Real Time Resiliency Metrics

Salinity Control Structure G-56 (Hills...
On average, upstream canal stages are at least four feet higher than downstream tidal stage...

Salinity Control Structure S-37B (Cypr...
The canal minimum operating level averages two feet higher than downstream tidal stage...

Salinity Control Structure S-36 (Middl...
The canal minimum operating level averages two feet higher than downstream tidal stage...
Deployment of Mechanical Removal at Lake Kissimmee S-65 Structure
Mike Knepper
(772) 284-1993
Email: mikeknep@bellsouth.net
Facebook Mike Knepper
YouTube K-nep Environment
Water Conditions Summary

South Florida Water Management District
Governing Board Meeting
August 11, 2022

John P. Mitnik, PE
Chief District Engineer
Assistant Executive Director
**District Wide Average Rainfall**

<table>
<thead>
<tr>
<th>Month</th>
<th>Average (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan</td>
<td>2.24</td>
</tr>
<tr>
<td>Feb</td>
<td>2.01</td>
</tr>
<tr>
<td>Mar</td>
<td>2.43</td>
</tr>
<tr>
<td>Apr</td>
<td>2.71</td>
</tr>
<tr>
<td>May</td>
<td>4.37</td>
</tr>
<tr>
<td>Jun</td>
<td>8.65</td>
</tr>
<tr>
<td>Jul</td>
<td>7.20</td>
</tr>
<tr>
<td>Aug</td>
<td>8.03</td>
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<tr>
<td>Sep</td>
<td>7.31</td>
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<tr>
<td>Oct</td>
<td>4.15</td>
</tr>
<tr>
<td>Nov</td>
<td>2.18</td>
</tr>
<tr>
<td>Dec</td>
<td>1.94</td>
</tr>
</tbody>
</table>

**2021 WET SEASON**
- Late Start 05/28/2021, Ended 10/17/2021.
- Wet season deficits and surplus balanced out.
- Average overall.

**2021-2022 DRY SEASON**
- Started 10/18/2021 and ended 5/12/2022.
- Dec 2021 to Mar 2022 all below average.
- April ended up slightly above average (106%).
- May was about average.

**2022 WET SEASON**
- Started 5/13/2022
- May rainfall was about average
- June was ~ 20% above average
- July was ~ 20% below average
July 2022 Rainfall
DISTRICT-WIDE: 5.75”

- 80% of average, -1.45” deficit.
- WCA1&2 and Southwest Coast have less deficit.
- Continued deficit in Kissimmee Basins
- Largest deficit is -3.00” at Everglades National Park

Wet Season Rainfall
May 13, 2022 to Present
DISTRICT-WIDE: 20.85”

- 99% of average, -0.15” deficit.
- Large variability, 76% to 126% of normal.
- Largest surplus is in the Keys, +2.89”.
- Basin with largest deficit is Upper Kissimmee, with -4.86”.
- 12/16 areas are in the 90-120% of average range

Presenter: John Mitnik
PTC1/pre-Alex in early June
District-wide: near normal
A few more 1” days in June
Drier since then
Upper Kissimmee and Lower Kissimmee below normal
Above normal lower east coast
Lake Tohopekaliga (August 09, 2022)

East Lake Tohopekaliga (August 09, 2022)

Lake Kissimmee (August 09, 2022)

55.49 feet NGVD

49.57 feet NGVD

53.26 feet NGVD

Presenter: John Mitnik
Lake Istokpoga (August 09, 2022)

Mean Daily Stage (FT–NGVD29)

- Blue line: NEXRAD
- Purple line: WS NORMAL 37.93
- Green line: S68–H 38.11

Legend:
- Red line: REG SCHED 38.31
- Dotted purple line: WS G207 or G208 unavailable 37.90
- Dashed purple line: WS Both G207 and G208 37.87

- 38.21 feet NGVD
Lake Okeechobee SFWMM August 2022 Position Analysis

50% chance stage falls in purple-shaded region
August 2022 PA - Likelihood of Releases to the Caloosahatchee Estuary

- Stage ≥ Base Flow Sub-band
- Releases > 2100 cfs
- Releases ≤ 2100 cfs

Probability (%) vs. Date

Wed 08/10/2022 08:31

Presenter: John Mitnik
August 2022 PA - Likelihood of Releases to the St. Lucie Estuary

- Stage ≥ Base Flow Sub-band
- Releases > 200 cfs
- Releases ≤ 200 cfs

Wed 08/10/2022 08:31
Lake Okeechobee stage is in the Base Flow Sub-band of the LORS-2008 Regulation schedule. LORS release guidance suggests no releases to the WCAs. For the Estuaries, up to 450 cfs at S-79 and up to 200 cfs at S-80.

For this week, the Tamiami Trail Flow Formula calls for 1,757 cfs releases from WCA-3A, which is being delivered via S-333+S-333N+S-12C&D. Current L-29 stage constraint is at 8.5 feet NGVD. S-356 is pumping to maintain canal stages in the L-31N within 5.5-5.8 ft NGVD. Currently S-332D is pumping as needed and so are S-200 and S-199. S-18C is open and S-197 is closed. LPG-2 stage at 8.5 SMA is below ground. S-331 has been syphoning and S-357 pumping to maintain stages 5.0 to 5.5 ft NGVD.

WCA-1 stage is above schedule in Zone A1; WCA-2A stage is above schedule in Zone A; WCA-3A stage is below schedule in Zone B. Small opening at S-10s (140 cfs), closed by Aug. 3rd. S-11s (110 cfs) closed by Aug. 11th. S-12s C and D are open ~ 650 cfs. S-12s A&B were closed on Aug. 10th. S-333 and S-333N ~ 1,200 cfs. S-151 rebuild was complete; open for a while in July, currently closed. S-144, S-145 and S-146 opened July 18th to Aug 3rd. S-343 A and B (100 cfs) opened July 19th. S-344 opened June 23rd (90 cfs). S-343 A and B and S-344 were closed Aug. 3rd.
SFWMD – Selected Release Volumes for the Period May 1, 2022 to August 9, 2022 (volumes in 1,000 acre-feet)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Volume (1,000 acre-feet)</th>
<th>WYR to Date</th>
<th>Last Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td>Upper Kissimmee to Lower Kissimmee</td>
<td>83.2</td>
<td>3.6</td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td>Inflows to Lake Okeechobee (including Fisheating Creek)</td>
<td>162.4</td>
<td>25.6</td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td>Lake Releases and Basin Runoff</td>
<td>300.5</td>
<td>56.6</td>
<td></td>
</tr>
<tr>
<td>Purple</td>
<td>Lake Releases East and West</td>
<td>103.2</td>
<td>3.9</td>
<td></td>
</tr>
<tr>
<td>Blue</td>
<td>Lake Flood Control to Estuaries</td>
<td>44.6</td>
<td>1.9</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>Total Lake Releases South</td>
<td>69.1</td>
<td>10.1</td>
<td></td>
</tr>
<tr>
<td>Magenta</td>
<td>Releases to Indian River Lagoon</td>
<td>20.1</td>
<td>5.1</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>Upper East Coast discharges to St. Lucie Estuary</td>
<td>39.6</td>
<td>9.3</td>
<td></td>
</tr>
<tr>
<td>Orange</td>
<td>Uncontrolled flows - Creeks (does not include Fisheating Creek)</td>
<td>68.7</td>
<td>32.0</td>
<td></td>
</tr>
</tbody>
</table>

1,000 acre-feet = 325.9 Million Gallons
SFWMD –Volumes Flowing Down the System for the Period May 1, 2022 to August 9, 2022 (volumes in 1,000 acre-feet)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Volume (1,000 acre-feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WYR 2022</td>
<td>Last Month</td>
</tr>
<tr>
<td>Orange</td>
<td>Lake Okeechobee Inflows</td>
<td>162.4</td>
</tr>
<tr>
<td>Blue</td>
<td>Lake Okeechobee Outflows</td>
<td>172.3</td>
</tr>
<tr>
<td>Red</td>
<td>WCAs Inflows</td>
<td>519.6</td>
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<tr>
<td>Green</td>
<td>ENP / Detention Cell Inflows</td>
<td>396.8</td>
</tr>
<tr>
<td>Pink</td>
<td>WCAs to East</td>
<td>2.5</td>
</tr>
<tr>
<td>Brown</td>
<td>Flows to Intracoastal</td>
<td>756.3</td>
</tr>
</tbody>
</table>
Total STA Inflow and Lake Releases to STAs

Lake Releases to STAs
Average Water Year: 148 Kaf
Average Dry season: 86 Kaf

Labels: Lake Releases to STAs
Total STA Inflow

Volume in Thousand Acre-Feet

2023(p): Data from May 1, 2022 to Aug 7, 2022.
Status of Groundwater Conditions

- In the Kissimmee Basin, surface water levels increased at all but one station, and groundwater levels increased at every station except for Floridan aquifer system well OSF-70R over the last seven days. About 60% of the Floridan aquifer wells in the Kissimmee Basin are in the lower percentile ranges.

- Groundwater and surface water levels decreased in the Upper East Coast over the last week. About 75% of the surficial aquifer wells in the Upper Kissimmee Basin and Upper East Coast are on the low side due to relatively low rainfall totals.

- Ninety percent of the LEC stations recorded decreasing water levels over the last seven days and some areas are in the lower percentile ranges, likely due to recent low rainfall totals. About 70% of the surficial aquifer system/Biscayne aquifer wells in the Lower East Coast (LEC) are in the median or higher percentile ranges for this time of year.

- In the Lower West Coast, about two-thirds of the groundwater stations increased over the last week. About 80 percent of the surficial aquifer system wells and all the Lower Tamiami aquifer wells are at median levels or higher for this time of year, with the remainder in the lower percentile ranges. 60 percent of the Sandstone aquifer wells are in the lower percentile ranges and 70 percent of the Mid-Hawthorn aquifer wells are in the lower percentile ranges.

Map showing a statistical comparison between current groundwater levels and groundwater levels for this time last year:

- Each colored symbol represents a monitoring well that continuously records groundwater levels.
- Color coding represents a statistical comparison of current water levels to historical water levels for this time of the year and the percentile rankings are based on monthly long-term groundwater level averages. The red symbols represent water levels that are in the lowest 10th percentile range, orange 10th to 24th percentile range, green the median range, blue is the 76th to 90th percentile range and black shows those stations about the 90th percentile range.

Presenter: John Mitnik
- The most recent CPC precipitation outlook for South Florida for August 2022 is for equal chances of below, normal and above normal rainfall.

- The outlooks for the 3-month window Aug – Oct is for slightly increased chances of above normal rainfall.

- The outlooks for the 3-month windows of Sep – Nov and Oct - Dec is for equal chances of below, normal and above normal rainfall.

- The outlooks for the 3-month windows from Nov 2022 - Jan 2023 to Dec 2022 - Feb 2023 are for slightly increased chances of below normal rainfall.
Week 1 (Historical Avg: 1.70”): Much below average
Week 2 (Historical Avg: 1.90”): Near-to-below average
Current Conditions (Dust Concentration Shaded)

Next Few Days

Dry Saharan Air Layer (SAL)

Thick Dust

Tropical Wave

Tropical Wave

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Ecological Conditions Update
Governing Board Meeting
August 11, 2022

Lawrence Glenn
Division Director Water Resources

Lakeside Ranch Stormwater Treatment Area
Photograph courtesy of SFWMD staff
Kissimmee River (Phase I) Floodplain Water Depth Maps

1 Year Ago: 8/7/2021
S-65A
Discharge: 1,460 cfs

1 Month Ago: 7/7/2022
S-65A
Discharge: 270 cfs

Current: 8/7/2022
S-65A
Discharge: 40 cfs

Water Depth (feet)
< -2.5' 0.0' 2.5' 5.0' 10' > 15'
Below Ground Above Ground

Discharge:
Month Ago: 7/7/2022
Current: 8/7/2022
Lake Okeechobee Hydrology
(*Provisional Data)

August 1 - 7 Inflows and Outflows

Prior 8 Weeks Inflows and Outflows

- Combined Inflows
- 77 & 308/L8 Outflows
- S2 & S3
- South

Daily Flow (CFS)

Ecological Envelope and Water Depths

Lake Okeechobee Stage vs Ecological Envelope

Changes in Water Depth

1 Month Ago: 07/08/2022

Current: 08/07/2022

12.88 ft NGVD29

12.89 ft NGVD29

Below Ground

Above Ground

Water Depth (feet)

< -2.5' 0.0' 2.5' 5.0' 10' >15'
Lake Okeechobee Cyanobacteria Bloom Potential

Lake Okeechobee August 8, 2020
NOAA cyanobacteria product derived from Copernicus Sentinel-3 OLCI data from EUMETSAT

Estimated Bloom Potential

Lake Okeechobee August 8, 2021
NOAA cyanobacteria product derived from Copernicus Sentinel-3 OLCI data from EUMETSAT

Estimated Bloom Potential

Lake Okeechobee August 7, 2022
NOAA cyanobacteria product derived from Copernicus Sentinel-3 OLCI data from EUMETSAT

Estimated Bloom Potential

QRDD#E|dqrdefwhb#surgrxfw#ghulyhg#urp #FrshuqHfxv#Vhqwghb6 #RFOI#gwd#urp #IXP HWVDW
Lake Okeechobee April Water Quality

*Provisional Data*

<table>
<thead>
<tr>
<th>Station</th>
<th>CHL (ug/L)</th>
<th>TOXIN (ug/L)</th>
<th>TAXA</th>
</tr>
</thead>
<tbody>
<tr>
<td>FEBIN</td>
<td>P</td>
<td>BDL</td>
<td>Microcys</td>
</tr>
<tr>
<td>FEBOUT</td>
<td>P</td>
<td>0.5</td>
<td>Microcys</td>
</tr>
<tr>
<td>KISSR0.0</td>
<td>36.0</td>
<td>BDL</td>
<td>Microcys</td>
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<tr>
<td>L005</td>
<td>31.0</td>
<td>0.3</td>
<td>Microcys</td>
</tr>
<tr>
<td>LZ2</td>
<td>61.2</td>
<td>BDL</td>
<td>mixed</td>
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<tr>
<td>KBARSE</td>
<td>45.0</td>
<td>1.2</td>
<td>Microcys</td>
</tr>
<tr>
<td>RITTAE2</td>
<td>20.5</td>
<td>BDL</td>
<td>Microcys</td>
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<tr>
<td>PELBAY3</td>
<td>19.2</td>
<td>BDL</td>
<td>mixed</td>
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<tr>
<td>POLE35</td>
<td>22.0</td>
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<td>Microcys</td>
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<tr>
<td>LZ25A</td>
<td>7.9</td>
<td>BDL</td>
<td>mixed</td>
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<tr>
<td>PALMOUT</td>
<td>24.1</td>
<td>BDL</td>
<td>Microcys</td>
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<tr>
<td>PALMOUT1</td>
<td>8.3</td>
<td>BDL</td>
<td>mixed</td>
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<tr>
<td>PALMOUT2</td>
<td>5.6</td>
<td>BDL</td>
<td>Microcys</td>
</tr>
<tr>
<td>PALMOUT3</td>
<td>12.4</td>
<td>BDL</td>
<td>mixed</td>
</tr>
<tr>
<td>POLEOUT</td>
<td>21.7</td>
<td>0.4</td>
<td>Microcys</td>
</tr>
<tr>
<td>POLEOUT1</td>
<td>35.6</td>
<td>0.4</td>
<td>Microcys</td>
</tr>
<tr>
<td>POLEOUT2</td>
<td>29.4</td>
<td>0.3</td>
<td>Microcys</td>
</tr>
<tr>
<td>POLEOUT3</td>
<td>30.0</td>
<td>0.7</td>
<td>Microcys</td>
</tr>
<tr>
<td>EASTSHORE</td>
<td>49.0</td>
<td>1.3</td>
<td>Microcys</td>
</tr>
<tr>
<td>NES135</td>
<td>44.8</td>
<td>1.2</td>
<td>Microcys</td>
</tr>
<tr>
<td>NES191</td>
<td>58.7</td>
<td>BDL</td>
<td>mixed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station</th>
<th>CHL (ug/L)</th>
<th>TOXIN (ug/L)</th>
<th>TAXA</th>
</tr>
</thead>
<tbody>
<tr>
<td>L001</td>
<td>45.4</td>
<td>1.5</td>
<td>Microcys</td>
</tr>
<tr>
<td>L004</td>
<td>16.3</td>
<td>BDL</td>
<td>Microcys</td>
</tr>
<tr>
<td>L006</td>
<td>17.5</td>
<td>BDL</td>
<td>mixed</td>
</tr>
<tr>
<td>L007</td>
<td>19.4</td>
<td>BDL</td>
<td>mixed</td>
</tr>
<tr>
<td>L008</td>
<td>15.9</td>
<td>BDL</td>
<td>Microcys</td>
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<tr>
<td>LZ30</td>
<td>13.9</td>
<td>BDL</td>
<td>Microcys</td>
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<tr>
<td>LZ40</td>
<td>27.9</td>
<td>BDL</td>
<td>mixed</td>
</tr>
<tr>
<td>CLV10A</td>
<td>27.9</td>
<td>BDL</td>
<td>Microcys</td>
</tr>
<tr>
<td>NCENTER</td>
<td>75.8</td>
<td>2.8</td>
<td>Microcys</td>
</tr>
</tbody>
</table>

**Notes:**
- SFWMD considers >40 µg/L Chlorophyll a (Chl a) an algal bloom
- BDL – Below Detectable Limit of 0.25 µg/L
- ND – No Dominant taxa
- P – Pending
- NS – Not Sampled
- Station bold font = crew observed possible BGA
- Chlorophyll a analyzed by SFWMD
- Toxin and Taxa analyzed by FDEP:
  - Microcys = Microcystis; Cylindro = Cylindrospermopsis; Planktol = Planktolyngbya; Dolicho = Dolichospermum

**Mapping:**
- NOAA MODIS Estimated Bloom Potential Scale
- Chlorophyll a (Chl a (ug/L))

**Presenter:** Lawrence Glenn
### Recent Water Quality

***Provisional Data***

<table>
<thead>
<tr>
<th>Year</th>
<th>Turbidity (NTU)</th>
<th>Dissolved Inorganic Nitrogen (mg/L)</th>
<th>Chlorophyll A (µg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>15.6</td>
<td>0.034</td>
<td>31.0</td>
</tr>
<tr>
<td>2019</td>
<td>6.2</td>
<td>0.099</td>
<td>20.1</td>
</tr>
<tr>
<td>2020</td>
<td>5.2</td>
<td>0.057</td>
<td>21.8</td>
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<tr>
<td>2021</td>
<td>8.1</td>
<td>0.065</td>
<td>26.7</td>
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<tr>
<td>2022</td>
<td>8.7</td>
<td>0.052</td>
<td>30.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Turbidity (NTU)</th>
<th>Dissolved Inorganic Nitrogen (mg/L)</th>
<th>Chlorophyll A (µg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>22.0</td>
<td>0.032</td>
<td>17.9</td>
</tr>
<tr>
<td>2019</td>
<td>39.6</td>
<td>0.061</td>
<td>14.2</td>
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<tr>
<td>2020</td>
<td>25.1</td>
<td>0.098</td>
<td>31.1</td>
</tr>
<tr>
<td>2021</td>
<td>25.6</td>
<td>0.061</td>
<td>16.8</td>
</tr>
<tr>
<td>2022</td>
<td>16.9</td>
<td>0.080</td>
<td>27.0</td>
</tr>
</tbody>
</table>

**Nearshore**

**Pelagic**

**Graphs:**
- **Turbidity (NTU):** Showing trends for Nearshore and Pelagic regions over time.
- **Dissolved Inorganic Nitrogen (mg/L):** Graph showing concentration trends.
- **Chlorophyll A (µg/L):** Graph showing concentration trends.
St. Lucie Inflows and Salinity Conditions

Total Daily Inflow into the St. Lucie Estuary

<table>
<thead>
<tr>
<th>7-Day Mean Inflow</th>
<th>Aug. 1, 2022 - Aug. 7, 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Okeechobee (S-308)</td>
<td>0 cfs</td>
</tr>
<tr>
<td>C-44 Basin (S-80)</td>
<td>0 cfs</td>
</tr>
<tr>
<td>C-23 Basin (S-97)</td>
<td>33 cfs</td>
</tr>
<tr>
<td>C-24 Basin (S-49)</td>
<td>39 cfs</td>
</tr>
<tr>
<td>Ten Mile Creek</td>
<td>40 cfs</td>
</tr>
<tr>
<td>Tidal Basin</td>
<td>137 cfs</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>249 cfs</strong></td>
</tr>
</tbody>
</table>

Data provisional and subject to change

1 Month Ago: July 10, 2022

Current: Aug 7, 2022

Salinity Ranges

- Optimum: 10 - 25
- Stress: 5 - 9 or > 25
- Damaging: < 5
St. Lucie Estuary – Oyster Recruitment

2020 - 2022 Rio Oyster Recruitment and 14-Day Mean Salinity at US1 Bridge

SLE Thresholds for Oyster Spat Recruitment
- Good > 5
- Fair = 1 - 5
- Poor = 0 - 1
Caloosahatchee Inflows and Salinity Conditions

Total Daily Inflow into the Caloosahatchee

7-Day Mean Inflow
Aug. 1, 2022 - Aug. 7, 2022

<table>
<thead>
<tr>
<th>Area</th>
<th>Flow (cfs)</th>
<th>RECOVER PM CRE Flow Envelopes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Okeechobee (S-77)</td>
<td>118 cfs</td>
<td># Days</td>
</tr>
<tr>
<td>C-43 Basin (S-79)</td>
<td>521 cfs</td>
<td>15</td>
</tr>
<tr>
<td>Tidal Basin</td>
<td>443 cfs</td>
<td>252</td>
</tr>
<tr>
<td>Total</td>
<td>1,082 cfs</td>
<td>51</td>
</tr>
</tbody>
</table>

Dry Season

S-79 Flow from Aug 1, 2021 - Aug 8, 2022

<table>
<thead>
<tr>
<th>Salinity Range</th>
<th># Days</th>
<th>% Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below Optimum Range (&lt;750 cfs)</td>
<td>15</td>
<td>4%</td>
</tr>
<tr>
<td>Optimum Range (750-2100 cfs)</td>
<td>252</td>
<td>68%</td>
</tr>
<tr>
<td>Stressful Range (2100-2600 cfs)</td>
<td>51</td>
<td>14%</td>
</tr>
<tr>
<td>Damaging Range (&gt;2600 cfs)</td>
<td>55</td>
<td>15%</td>
</tr>
<tr>
<td>Total Number of Days:</td>
<td>373</td>
<td>100%</td>
</tr>
</tbody>
</table>

July 10, 2022 and Aug 7, 2022

Seven-day moving average surface and bottom salinities at oyster monitoring sites in the Caloosahatchee River Estuary

Data are provisional and subject to change.
Caloosahatchee Estuary – Oyster Recruitment

2020 - 2022 Iona Cove Oyster Recruitment and 14-Day Mean Salinity at Cape Coral

CRE Thresholds for Oyster Spat Recruitment
- Good > 20
- Fair = 5 - 20
- Poor = 0 - 5

2020 - 2022 Bird Island Oyster Recruitment and 14-Day Mean Salinity at Shell Point

CRE Thresholds for Oyster Spat Recruitment
- Good > 20
- Fair = 5 - 20
- Poor = 0 - 5

Presenter: Lawrence Glenn
Caloosahatchee Estuary – *Vallisneria americana*

**Vallisneria americana**
- Salinity 0-5: ideal for maximizing growth

**RECOVER PM – Flow Targets**
- 252 of last 365 days (68%) have been in optimum range (750-2100 cfs)
- Salinity below 5 all year

Caged plantings

Free growing plants
Everglades Stormwater Treatment Areas (STAs)

- STAs treated basin runoff in July
  - Total WY2023 inflows to STAs (5/1/2022 to 8/7/2022): ~415,000 ac-ft
  - Lake Okeechobee releases to FEB/STAs in WY2023: ~12,400 ac-ft
- Extensive vegetation management activities underway to address stressed and highly stressed vegetation especially in EAV cells
- Most treatment cells are at or near target depth

<table>
<thead>
<tr>
<th></th>
<th>Water Year 2023</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5/1/2022 to 8/7/2022</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inflow</td>
<td>STA-1E</td>
<td>STA-1W</td>
<td>STA-2</td>
<td>STA-3/4</td>
</tr>
<tr>
<td>TP Concentration (ppb)</td>
<td></td>
<td>108</td>
<td>189</td>
<td>126</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>Outflow</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TP Concentration (ppb)</td>
<td></td>
<td>23</td>
<td>24</td>
<td>33</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>365-day Phosphorus Loading Rate (g/m²/yr)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.6</td>
<td>0.3</td>
<td>0.7</td>
<td>0.8</td>
<td>0.9</td>
</tr>
<tr>
<td></td>
<td>Inflow Volume (ac-ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>68,200</td>
<td>44,700</td>
<td>128,500</td>
<td>152,600</td>
<td>20,900</td>
</tr>
</tbody>
</table>

Includes preliminary data; all concentrations are flow-weighted means

Water Depths (8/7/2022)

<table>
<thead>
<tr>
<th></th>
<th>Average Water Depth (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>STA-1E</td>
</tr>
<tr>
<td></td>
<td>1.3</td>
</tr>
</tbody>
</table>

Includes preliminary data; Emergent Aquatic Vegetation (EAV); Submerged Aquatic Vegetation (SAV)
The SFWMD monitors Basin discharges to collectively quantify TP loads from the EAA Basin. The TP load for the current Water Year is compared to a period before the BMP Program to determine compliance with the 25% reduction requirement. The Rule adopted compliance methodology is a 2-part test to account for statistical uncertainty. For example, if the 25% reduction is not met in a single year, the basin is considered to have achieved the expected performance level unless it is exceeded for three consecutive years.

*Water year 2007 phosphorus reduction was below 25%, however due to the 2-part test, the EAA Basin was in compliance.

a. TP FWMC calculated based on the measured TP load and the C-139 Basin outflow.
b. WY2018 limit TP load off-scale.
Biscayne Bay

Seven Day Mean Salinity (BBCW8 & BBCW10) & Total Daily Flow

- Total Daily Flow *
- BBCW8
- BBCW10

* Total flow from S20G, S20F, S21, S21A, S123, S700P

Presenter: Lawrence Glenn
Everglades Water Depth Maps

06/07/2022

07/07/2022

08/07/2022

Water Depth (feet)

-2.5' 0.0' 2.5' 5.0' 10' >15'

Below Ground Above Ground
Water Levels in Northeast WCA-3A

3A-3 Gage SFWMM July 2022 Position Analysis

Presenter: Lawrence Glenn
Florida Bay Salinity

- 2022-04-12 Previous Trip
- 2021-09-14 Last Year
- 2022-08-01 Most Recent Survey

Salinity

0 5 10 15 20 25 30 35 40 45 50
Taylor Slough Stages and Florida Bay Salinity

Presenter: Lawrence Glenn
Questions

Black-necked Stilt at the A-1 Flow Equalization Basin
Photograph courtesy of SFWMD staff
CEPP New Water Seepage Barrier Wall Project

Jennifer Reynolds, Division Director
Ecosystem Restoration & Capital Projects
South Florida Water Management District
Governing Board
August 11, 2022
Location

Presenter: Jennifer Reynolds
Context

Presenter: Jennifer Reynolds
8.5 SMA Limited Curtain Wall is working
8.5 SMA Limited Curtain Wall - Update

Wall Start: Station 1887+00
Wall Stop: Station 2000+90
Wall complete: 11,390 feet (93.75%)
Wall Remaining: 760 feet (6.25%)
Project Completion: Early Sept 2022

Project Cost: $14,218,574.45
Paid to Date: $12,338,102.50
Remaining: $1,041,028.75
Total Wall Length: 5 miles
Wall Depth: Approx. 63 feet deep
Wall Width: 26-30 inch
Project Duration: 24 months
Project Completion: October 2024
Bid Range: $42,258,301 – 42,592,510

Total Wall Length: 5 miles
Wall Depth: Approx. 63 feet deep
Wall Width: 26-30 inch
Project Duration: 24 months
Project Completion: October 2024
Bid Range: $42,258,301 – 42,592,510

CB Wall Material
Bid Summary

- RFB Advertised: May 25, 2022
- Bid Opening: July 7, 2022
- Number of Bids Received: 02
- Bid Range: $42,258,301 – 42,592,510
- Engineer’s Estimate: $40,375,000.00 – $44,625,000.00
USACE Documents Needed for Credit and Construction

- Validation Report for CEPP Seepage Barrier Wall Project
  - Draft to USACE South Atlantic Division for review August 5, 2022

- Environmental Assessment (public review for 30 days)
  - USACE plans to release week of August 8, 2022

- 408 Permit – Anticipated October 21, 2022

- Pre-Project Credit Agreement – Anticipated October 21, 2022
A Resolution of the Governing Board of the South Florida Water Management District to authorize entering into a 790-day contract with Geo-Solutions, Inc., the lowest responsive and responsible bidder, for the CEPP New Water Seepage Barrier Wall Project, in the amount of $42,258,301 for which $100,000 in dedicated funds (Everglades Trust Fund and Land Acquisition Trust Fund) and Ad Valorem funds are budgeted and the remainder is subject to Governing Board approval of future years budgets. (Contract No. 4600004637)
Byrd, Rosie

From: LaPradd, Charles (RER) <Charles.LaPradd@miamidade.gov>
Sent: Wednesday, August 10, 2022 7:14 PM
To: Byrd, Rosie
Subject: Comment on agenda item 21 seepage barrier

[Please remember, this is an external email]

Governing Board Members

I support approval of agenda item 21 for the continuation of the seepage barrier project around the 8.5 square mile area. Current efforts have made great progress in the area.

Thank you

Charles LaPradd
Agricultural Manager
Miami-Dade County
305-971-5091

Sent via the Samsung Galaxy S20 FE 5G, an AT&T 5G smartphone
Get Outlook for Android
Basin Management Action Plans

Adam Blalock
Deputy Secretary for Ecosystem Restoration

Kevin Coyne
Division of Environmental Assessment and Restoration

David Frady
Division of Environmental Assessment and Restoration

Florida Department of Environmental Protection
• Section 373.4595, F.S. - NEEPP  
  o Includes the Lake Okeechobee, Caloosahatchee and St. Lucie BMAPs.  
  o Chapter 2016-1, Laws of Florida - required 5-year updates to the BMAPs.  

• Governor's Executive Order 19-12.  
  o Required updates to BMAPs by January 2020.
BMAPs

- Building on the last discussion in October 2021.
- 5-year Reviews.
- Requirements of Clean Waterways Act.
- Reporting.
- Unenrolled Ag Producer Enforcement.
BMAPs

- BMAPs are adopted by DEP through a Secretarial Order.
- BMAP includes restoration projects/management strategies/research (and that list keeps growing).
- BMAPs are reviewed annually – reported in the Statewide Annual Report (STAR).
- BMAPs updated ~ five years.
- More than 30 BMAPs currently in place and effective (primarily for nutrients and bacteria).
**Targeted Restoration Areas (TRA)**

### Step 1
- **Concentration 5-year average**
- **Compare to NNC benchmark**

#### Priority 1: Greater than twice the benchmark
#### Priority 2: Greater than benchmark, but less than twice benchmark value
#### Priority 3: Equal to or less than benchmark

### Step 2
- **Flow weighted mean (FWM) concentration (5-yr average)**
- **Compare to NNC benchmark**

#### Priority 1: Greater than twice the benchmark
#### Priority 2: Greater than benchmark, but less than twice benchmark value
#### Priority 3: Equal to or less than benchmark

### Step 3
- **Attenuated Unit Area Load (UAL)**
- **Compare to subwatershed target UAL (target load/acres)**

#### Move up one priority: Greater than 50% above subwatershed target UAL
#### Maintain priority: Less than 50% above watershed target UAL
#### Move down one priority: Less than subwatershed target UAL

### Step 4
- **Flow weighted mean (FWM) concentration**
- **ATTENUATED UNIT AREA LOAD (UAL)**
- **Compare to subwatershed target UAL (target load/acres)**
- **TN or TP trend**
  - (FWM concentration if available, otherwise use concentration)
- **Statistically significant trend**

#### Move up one priority: Statistically significant increasing trend
#### Maintain priority: No statistically significant trend
#### Move down one priority: Statistically significant decreasing trend

### 5-Year Review Water Quality Analysis
Lake Okeechobee BMAP
Clean Waterways Act

Wastewater Treatment Plans

- Inventory of WWTFs within jurisdiction of local governments.
- Summary of each facility’s current status, which may include:
  - Permitted capacity.
  - Average discharge.
  - Permitted nutrient limits.
  - Average nutrient concentration.
  - Estimated average nutrient load.
- Summary of capacity analysis for each facility
  - Including plans for future growth.
- Ranking or list of facility upgrades needed to meet requirements.
- Timelines/milestones for all projects.
- Funding estimates for all projects.

OSTDS Remediation Plans

- Inventory of OSTDS within jurisdiction of local governments
- Plan to address OSTDS in the future
  - Areas for sewering and/or enhancements & prioritization of those areas.
  - Summary of capacity analysis for wastewater facilities that would accept newly sewered areas.
  - Timelines/milestones for projects.
  - Funding estimates for all projects.
  - Future growth considerations.

Adopted by July 1, 2025
### Table 19. TP effluent limits

<table>
<thead>
<tr>
<th>Permitted Average Daily Flow (mgd)</th>
<th>TP Concentration Limits for Direct Surface Discharge (mg/L)</th>
<th>TP Concentration Limits for RRLA Effluent Disposal System (mg/L)</th>
<th>TP Concentration Limits for All Other Disposal Methods, Including Reuse (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greater than or equal to 0.5</td>
<td>1</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Less than 0.5 and greater than or</td>
<td>1</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>equal to 0.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 0.1</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

### Table 20. TN effluent limits

<table>
<thead>
<tr>
<th>Permitted Average Daily Flow (mgd)</th>
<th>TN Concentration Limits for Direct Surface Discharge (mg/L)</th>
<th>TN Concentration Limits for RRLA Effluent Disposal System (mg/L)</th>
<th>TN Concentration Limits for All Other Disposal Methods, Including Reuse (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greater than or equal to 0.5</td>
<td>3</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>Less than 0.5 and greater than or</td>
<td>3</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>equal to 0.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less than 0.1</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>
• Requirement under **Section 403.0675 Florida Statutes (F.S.)** to provide an annual update to the Governor and Legislature.

• Reports on restoration projects and management strategies.

• This year is the 5th year reporting (more than 6,000 projects).
Status of Projects

Lake Okeechobee Basin Management Action Plan

Introduction Overview Location Projects Progress Contacts & More Information

Actions to Achieve Nutrient Load Reductions

The Lake Okeechobee BRAP is designed to be implemented in a phased approach to allow for adaptive management. The phased BRAP approach allows for the implementation of projects designed to achieve incremental reductions, while simultaneously monitoring and conducting studies to better understand the water-quality dynamics (sources and response variables) in the watershed.

For the first BRAP phase, DEP focused on project implementation in the six subwatersheds north of Lake Okeechobee. Under the 2020 BRAP, projects and strategies are tracked in all nine subwatersheds. Municipal, regional, state, and federal agencies, as well as agricultural producers, have responsibilities under the BRAP to implement structural and nonstructural activities to reduce TSS to Lake Okeechobee. Public-private partnerships and regional projects represent many management strategies in the LCP.

All agricultural nonpoint sources in the BRAP area are statutorily required either to implement appropriate best management practices or to conduct water quality monitoring that demonstrates compliance with state water quality standards. The Florida Department of Agriculture and Consumer Services Office of Agricultural Water...
• STAR transitioning to full electronic reporting.
• Over 400 entities reporting projects.
• For STAR 2022, all entities will be required to use the portal to review and submit project updates.
• Plan to integrate with other DEP databases/programs.

https://www.fldepportal.com/DepPortal/go/home
Clean Waterways Act Requirements for Agricultural Producers

• Requires a wide range of water quality protection provisions aimed at minimizing impacts from known nutrient pollution sources, including agriculture.

• Requires agricultural producers on parcels within a BMAP to either:
  o Enroll in the FDACS Best Management Practices (BMP) Program; or
  o Conduct Water Quality Monitoring approved by DEP.
Clean Waterways Act Requirements for Agricultural Producers

• The law also requires FDACS to:
  o Conduct on-site implementation verification (IV) site visits on properties enrolled in the BMP program every two years.
  o Collect fertilizer data via the Nutrient Application Record Form (NARF).
  o **Identify agricultural parcels within a BMAP that are out of compliance and refer them to FDEP for enforcement.**
The Florida Department of Agriculture and Consumer Services (FDACS) uses various database to identify parcels within a BMAP that may be agricultural operations. FDACS refers non-compliant producers to FDEP for enforcement after confirming agricultural activity and attempting to enroll the producer in the BMP program. FDACS initiates enforcement action if an agricultural producer fails to come into compliance, DEP initiates a civil suit to compel them to come into compliance. FDEP is prioritizing enforcement actions based on parcel size and impact to the environment. It saves taxpayers money and is better for the environment to bring producers into compliance quickly through education and outreach efforts prior to taking formal enforcement action against small farmers.
Unenrolled Agricultural Producer Enforcement

- More than 84% of the unenrolled agricultural parcels identified by FDACS and referred to FDEP have been brought into compliance
  - That is more than 85% of the total acres.

- There are no parcels greater than 100 acres out of compliance and the majority are smaller than 10 acres.

- Most parcels remaining out of compliance are less than 10 acres.

- FDEP is engaged in an ongoing campaign to educate landowners of their requirements and bring them into compliance quickly through additional outreach and on-site visits.