

FRIPP ISLAND PUBLIC SERVICE DISTRICT

Tuesday, April 12, 2022  
Fripp Island Fire Station  
and  
Electronic Meeting Via Zoom  
9:30 a.m.

Zoom Info:

Join from PC, Mac, Linux, iOS or Android:

<https://us02web.zoom.us/j/86565978745>

Or iPhone one-tap (US Toll): +19292056099,,86565978745#  
+13017158592,,86565978745#

Or Telephone:

Dial: +1 301 715 8592 (US Toll) or +1 312 626 6799 (US Toll)  
Meeting ID: 865 6597 8745

AGENDA

1. Call to Order
  - Confirmation of the presence of a quorum
  - Confirmation of public meeting notice, as required by the SC Code of Laws *30-4-80(A)*.
2. Pledge of Allegiance
3. Approval of March Commission Meeting Minutes
4. Reports
  - Manager's Report for March 2022
    - *Discussion of Bi-Weekly Manager's Report to Commission*
  - Fire Department Report for March 2022
  - Other
5. Old Business
  - Cost of Service & Rate Study
6. New Business
  - Effort to Petition Legislators Regarding Memorialization of Geordie Madlinger
  - Discussion of Blue Heron Lake Dike/Berm and Spillway
7. Questions and Comments from Visitors
  - FIPOA Representative
8. Executive Session
  - Legal and Contractual Matters Related to Funding Options for Capital Planning
  - Personnel Matters – Compensation
9. Adjourn

## FRIPP ISLAND PUBLIC SERVICE DISTRICT

**Minutes:** Commission Meeting on April 12, 2022 – electronically via ZOOM

**Present:** Michael J. Wilt, John F. King, Edward D. Wetzel, Rick E. Keup,  
Dan H. McCormick, Dennis Perrone

**Absent:**

**Staff:** Angie Hughes, District Manager; Joshua Horton, Fire Chief; Yvonne Fireall,  
Office Manager

**Guests:** Frank Davis (Confluence Consulting LLC), Gary Nizzi, Jeanne Sargent  
(FIPOA Shoreline Change Committee)

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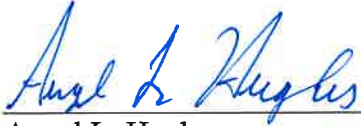
1. Chairman Wilt called the meeting to order at 9:30 a.m., confirmed the presence of a quorum and confirmed that all requirements of the SC Code of Laws, Section 30-4-80, pertaining to the notice of meetings of public bodies, have been met for this meeting.
2. Chairman Wilt led the Commission in the Pledge of Allegiance.
3. The Commission approved the minutes for the March 2022 regular Commission meeting, upon a motion by Mr. Wetzel (Vote: 5:1).
4. Reports
  - a) The Commission reviewed the Manager's Report for March 2022. (*Att A*)
  - b) The Commission reviewed the Fire Department Report for March 2022. (*Att B*)
5. Old Business
  - a) The Commission entertained Frank Davis, of Confluence Consulting LLC, who presented updated cost of service and rate study information and rate structure alternatives. The commission reviewed and approved Alternative 1 of the recommended new rate structures, upon a motion by Mr. Wetzel (Vote 5:1). (*Att C*)
6. New Business
  - a) The Commission authorized Mr. Wetzel to be a representative of Fripp Island PSD at FIPOA Shoreline Change Committee meetings, upon a motion by Mr. McCormick (Vote: unanimous).
  - b) The Commission agreed to participate in an official petition to legislators regarding memorialization of Geordie Madlinger, upon a motion by Mr. McCormick (Vote: unanimous). (*Att D*)
  - c) The Commission discussed the Blue Heron Lake Dike/Berm and spillway. (*Att E*)
7. The Commission entertained questions and comments from visitors.
8. The Commission entered executive session to discuss legal and contractual matters related to funding options for capital planning and personnel matters related to compensation at 10:49 a.m., upon a motion by Mr. Wetzel (Vote: unanimous). The Commission resumed open session at 12:21 p.m., upon a motion by Mr. Wetzel (Vote: unanimous).

9. There being no further business, the meeting adjourned at 12:22 p.m., upon a motion by Mr. King (Vote: unanimous).



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Michael J. Wilt  
Chairman



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Angel L. Hughes  
Secretary

# FRIPP ISLAND PUBLIC SERVICE DISTRICT MANAGER'S REPORT FOR MARCH 2022

## I. Tap-Ins

Category	FY 2022		FY 2021		FY 2020	
	Mar	YTD	Mar	YTD	Mar	YTD
Water customers	4	26	3	8	-	4
Sewer customers						
a. Gravity	2	16	1	4	-	3
b. Vacuum	1	8	2	4	-	1

Total vacuum sewer customers: 587 of 726

## II. Routine Operations

### 1. Butcher's Island and Hunting Island Booster Pumps Average Daily Run Time for Mar

	<u>2022</u>	<u>Diff</u>	<u>2021</u>	<u>Diff</u>	<u>2020</u>	<u>Diff</u>	<u>2019</u>
Butcher's Isl Pumps Hrs/Day	0.2	0.1	0.1	0.0	0.1	0.1	0.0
Hunting Isl Pumps Hrs/Day	<u>0.3</u>	<u>0.1</u>	<u>0.2</u>	<u>0.0</u>	<u>0.2</u>	<u>0.2</u>	<u>0.0</u>
Total Hrs/Day	0.5	0.2	0.3	0.0	0.3	0.3	0.0

### 2. Fripp Island Master Metered Water Use for Mar, Average Gallons per Day

	<u>2022</u>	<u>% Change</u>	<u>2021</u>	<u>% Change</u>	<u>2020</u>	<u>% Change</u>	<u>2019</u>
BJW&SA	379,171	(2.7)	389,750	8.8	358,313	(0.1)	358,768
Harbor Island	55,266	(1.4)	56,044	22.1	45,913	(10.2)	51,139
Hunt Island	6,369	(32.4)	9,425	3.5	9,103	37.9	6,600
Frapp Island	310,543	(0.9)	313,469	1.2	309,625	(1.0)	312,645
Accountability, %	98.2	N/A	97.2	N/A	101.8	N/A	103.2
Rainfall, Inches	4.2		3.4		4.7		1.7

### 3. Fripp Island Water Consumption – Recorded vs. Billed (in 1,000 gals.)

	Annual	Qtr 1	Qtr 4	Qtr 3	Qtr 2
	<u>Total</u>	<u>2022</u>	<u>2021</u>	<u>2021</u>	<u>2021</u>
Frapp Master Meter	169,892	26,671	33,108	59,221	50,892
Billed Water	<u>153,814</u>	<u>22,255</u>	<u>31,283</u>	<u>53,521</u>	<u>46,755</u>
Total Unbilled Water	16,078	4,416	1,825	5,700	4,137
Unbilled Water Percent	9%	17%	6%	10%	8%
Flushing/Unbilled Accts	<u>2,785</u>	<u>1,250</u>	<u>490</u>	<u>668</u>	<u>376</u>
Unaccounted for Water	13,293	3,166	1,335	5,032	3,760
Unaccounted for Percent	8%	12%	4%	8%	7%

### 4. The water tank levels and water line pressures were normal for Mar.

### 5. Wastewater Treatment Plant Flow for Mar, Gallons per Day

	<u>2022</u>	<u>% Change</u>	<u>2021</u>	<u>% Change</u>	<u>2020</u>	<u>% Change</u>	<u>2019</u>
Average Daily Flow	179,141	(10.5)	200,224	(5.9)	212,853	26.8	167,840
Weekly Max Flow	189,000	(9.1)	208,000	(5.9)	221,000	22.8	180,000
Peak Daily Flow	215,621	(17.4)	261,179	(24.1)	344,154	76.2	195,301

Peak daily flow of 215,621 occurred on Fri., 3/25/22, without rain. For Mar. 2021, peak daily flow occurred on Sun., 3/28/21, without rain. For Mar. 2020, peak daily flow occurred on Thurs., 3/5/20, with 1.5" of rain. For Mar. 2019, peak daily flow occurred on Sun., 3/31/19, without rain.

6. The water system and wastewater treatment plant samples were satisfactory for Mar.

### III. Emergencies, Special Field Work and Activities

#### 1. Water System

- a) The SC Drought Response Committee declared "incipient" (abnormally dry) drought conditions for all coastal and adjacent counties during March. The rest of the state remains under normal conditions.
- b) District field operators performed miscellaneous water system maintenance consisting of water line and meter repairs, water taps and meter installations.
- c) March 9-11 – washout inspections were done on the 75k and 250k gallon water tanks.
- d) March 15 – operators patched a hole in the casing of booster pump #1 at the Hunting Island booster pump station.
- e) March 23 – the company that previously provided inspection services for the District's water lines suspended from bridges has been sold. The successor company provided an estimate for continuing services that was more than 5 times the cost of the 2020 inspections. Other options are being explored.

#### 2. Wastewater System

- a) March 16 – operators replaced the exhaust fan motor at the wastewater treatment plant.
- b) March 17 – biannual inspections were performed on the backup generators at the treatment plant and vacuum sewer station.
- c) March 14-21 – operators performed troubleshooting measures to determine why sewer vacuum pump hours were up. A broken joint connection was found on the 6" line near the Bonito Bridge. The line was installed at an angle that caused stress on the joint, causing it to crack.
- d) March 28-30 – recovery clean performed on Train #1 at the wastewater treatment plant.

#### 3. Hunting Island Booster Pump Station Rehab – On March 30, the District received the partially executed contract from BRW Construction. Contract will be reviewed, executed and a notice to proceed issued within 15 days of receipt. Updated construction schedule:

Construction	April 15 – December 31
Pump Station Manufacture	December 2021 – May 2022
Project Close-out	January 2 – 23, 2023

#### 4. Cost of Service & Rate Study – Management continued to fine tune budget numbers to inform the rate consultant's report during March. A draft final report with recommendations is expected at the April Commission meeting. Presentation of the recommended rate structure to the public is planned for the May Commission meeting.

#### 5. Fripp Inlet Bridge

- a) JMT Inc. conducted the annual bridge inspection the week of February 7<sup>th</sup>. The inspection report has been delayed and will be available in May.
- b) The Manager is checking into the possibility of catastrophe insurance (CAT bonds) for the Fripp Inlet bridge.
- c) The Manager met with Amy Baker on 3/16 to discuss various options for funding future capital and maintenance needs of the bridge. Ms. Baker provided several suggestions for pursuing federal and state assistance and agreed to provide the names of companies/individuals that may be able to assist in these efforts.

6. Field Operator Search – An acceptable applicant was interviewed during the last week in March and will be offered the open position, pending satisfactory results of reference checks. The new employee will be enrolled in formal training immediately to advance to the level required to operate the wastewater treatment plant. Additional training options are being explored for existing employees as well.
7. Cybersecurity & IT Support
  - a) The upgrade of the PLCs, workstations, and associated software at the WWTP is scheduled for the week of April 11-15.
  - b) The District's accounting software provider has stated that upgrade of the accounting software to their cloud-based solution will begin in April. This is the final step necessary to implement all the security measures recommended by Cyber Risk Analysis Group.
8. Erosion – Some subsidence of the revetment along Porpoise Drive and possible damage to the toe near the High Dunes intersection has been noted. The annual survey of the revetment was pushed back to April due to weather considerations. The survey will be reviewed by McSweeney Engineers, who will conduct a site visit and provide an evaluation and recommendations for review at the May Commission meeting.
9. Fripp Island Ocean Point Golf Course Effluent Disposal – Golf course personnel removed the check valves between the holding tank and irrigation pumps and have not provided a further update. The District Manager is waiting for a response from DHEC regarding contact information that can be provided to the golf course superintendent so he can research the feasibility of implementing an overflow between the holding pond and lagoon.
10. The SC Special Purpose Districts Association is holding its annual Leadership Program in Blythewood, SC on May 18<sup>th</sup>. Last year, there were several informative sessions that were structured to benefit elected and appointed leaders, as well as management. The deadline for registration is April 30<sup>th</sup>. Please contact the PSD office if you would like to attend.
11. Election of Commissioners – Two Commission seats will be up for election in the November 2022 general election. The deadline for filing with the Beaufort County Board of Elections is August 15, 2022 at noon.

# ***Fripp Island Fire Department Monthly Report Summary March 2022***

## **Response Activities:**

Total emergency responses for March, 13

	March 2022	March 2021	YTD CY22	YTD CY21
• Structure Fires	00	00	00	00
• Vehicle Fire	00	00	00	00
• Medical Emergencies	06	05	24	16
• Brush Fires	00	00	00	00
• Misc. Fire	03*	04	04	07
• Service Calls	03	04	05	06
• Mutual Aid	02	00	02	00
• Auto Accident	00	02	00	03
• Water Emergencies	01*	00	00	00
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	13	15	35	32

## **Average emergency response time:**

4 minutes 49 seconds.

## **Inspections:**

March 2022	March 2021	YTD CY22	YTD CY21
0	0	0	0

## **Training Activities:**

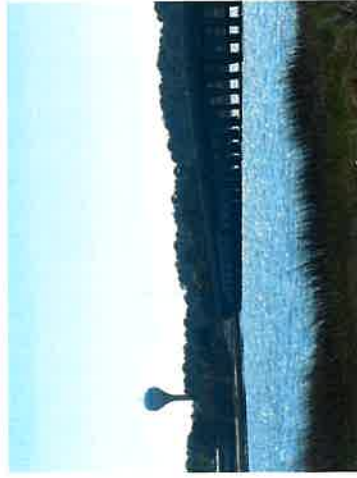
No training for March

## **Roster:**

Total personnel active for March, 21

Vol.-01

Paid-20



# FRIPP ISLAND PUBLIC SERVICE DISTRICT

Updated Rate Projections  
April 12, 2022



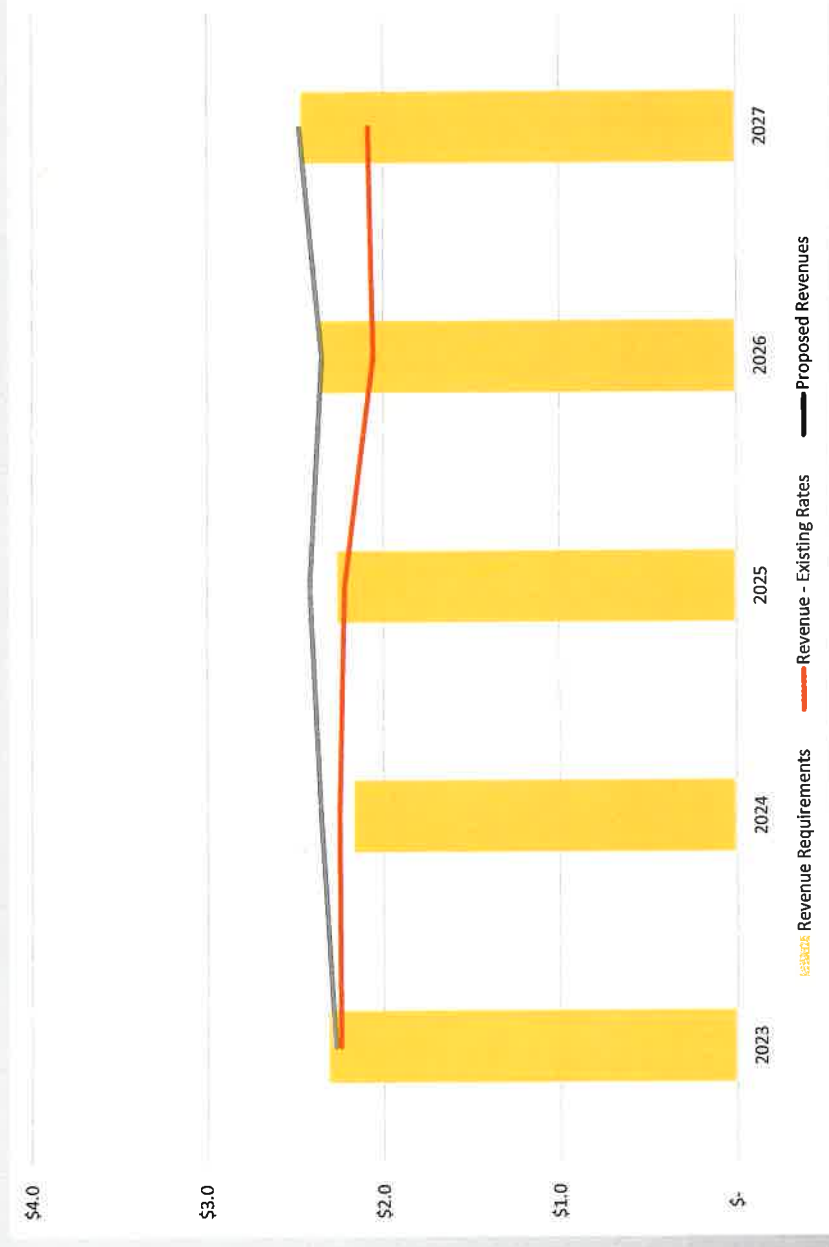
Att C



# WHAT HAS CHANGED?

- Revised O&M and Capital Budget Numbers
- Conservative forecast of Water Tank Lease revenues
- Adjusted FY 2022 water sales based on expectations (3 quarters)
- Increased base charges
- Reduced volumetric charges
- Projected rate increases higher in later years of forecast

# UPDATED REVENUE SUFFICIENCY (in millions)



# WATER RATES & PRICE DIFFERENTIALS

Rate Tier	Water Consumption Rates		
	Current	Alternative 1	Alternative 2
Block 1	\$3.65	\$3.00	\$3.00
Block 2	\$3.85	\$3.95	\$3.95
Block 3	\$4.25	\$4.85	\$5.01
Block 4	\$4.55		\$5.15

Rate Tier	Price Differentials		
	Current	Alternative 1	Alternative 2
Block 1	1.00	1.00	1.00
Block 2	1.05	1.32	1.32
Block 3	1.16	1.62	1.67
Block 4	1.25		1.72

# Updated WATER RATES & PRICE DIFFERENTIALS

Rate Tier	Water Consumption Rates		
	Current	Alternative 1	Alternative 2
Block 1	\$3.65	\$3.00	\$3.00
Block 2	\$3.85	\$3.87	\$3.87
Block 3	\$4.25	\$4.68	\$4.82
Block 4	\$4.55		

Rate Tier	Price Differentials		
	Current	Alternative 1	Alternative 2
Block 1	1.00	1.00	1.00
Block 2	1.05	1.29	1.29
Block 3	1.16	1.56	1.61
Block 4	1.25		

# PROPOSED FY 2023 WATER BASE CHARGES

Customer Class/Meter Size	Capacity Ratio	FY 2022 Base Charge	FY 2023 Base Charge
Residential	1.00	\$ 46.00	\$ 50.10
Hotel Room/Sunsuits	0.54	\$ 25.00	\$ 27.23
Off-Island	1.40	\$ 64.60	\$ 70.36
<b>Commercial/Irrigation</b>			
¾" Meter	1.00	\$ 46.00	\$ 50.10
1" Meter	1.70	\$ 78.20	\$ 85.17
1.5" Meter	3.30	\$ 151.80	\$ 165.33
2" Meter	5.30	\$ 243.80	\$ 265.53
3" Meter	10.08	\$ 463.80	\$ 505.14
Hunting Island Fishing Pier	3.79	\$ 174.20	\$ 189.73
Hunting Island State Park	192.04	\$ 8,833.83	\$ 9,621.20



# UPDATED WATER BASE CHARGES

Customer Class/Meter Size	Capacity Ratio <sup>1</sup>	FY 2022 Base Charge	FY 2023 Base Charge <sup>2</sup>
Residential	1.00	\$ 46.00	\$ 51.70
Hotel Room/Sunsuits	0.54	\$ 25.00	\$ 28.10
Off-Island <sup>3</sup>	1.40	\$ 64.60	\$ 72.61
<b>Commercial/Irrigation</b>			
¾" Meter	1.00	\$ 46.00	\$ 51.70
1" Meter	1.70	\$ 78.20	\$ 87.89
1.5" Meter	3.30	\$ 151.80	\$ 170.61
2" Meter	5.30	\$ 243.80	\$ 274.01
3" Meter	10.08	\$ 463.80	\$ 521.28
Hunting Island Fishing Pier	3.79	\$ 174.20	\$ 195.79
Hunting Island State Park	192.04	\$ 8,833.83	\$ 9,928.46

# ALTERNATIVE 1 WATER RESIDENTIAL IMPACT

RESIDENTIAL WATER BILLS					
Quarterly Usage	Current Rates FY 2022	Alternative FY 2022	Increase		
			(\$)	(%)	
4,000	\$ 60.60	\$ 62.10	\$ 1.50	2.5%	
8,000	\$ 75.20	\$ 74.10	(1.10)	-1.5%	
16,000	\$ 105.60	\$ 101.90	(3.70)	-3.5%	
21,000	\$ 124.85	\$ 121.65	(3.20)	-2.6%	
32,000	\$ 167.20	\$ 165.10	(2.10)	-1.3%	
50,000	\$ 236.50	\$ 248.80	12.30	5.2%	
100,000	\$ 449.00	\$ 491.30	42.30	9.4%	

## UPDATED ALTERNATIVE 1 WATER RESIDENTIAL IMPACT

RESIDENTIAL WATER BILLS					
Quarterly Usage	Current Rates FY 2022	Alternative FY 2023	Increase		
			(\$)		(%)
4,000	\$ 60.60	\$ 63.70	\$ 3.10		5.1%
8,000	\$ 75.20	\$ 75.70	\$ 0.50		0.7%
16,000	\$ 105.60	\$ 103.18	\$ (2.42)		-2.3%
21,000	\$ 124.85	\$ 122.53	\$ (2.32)		-1.9%
32,000	\$ 167.20	\$ 165.10	\$ (2.10)		-1.3%
50,000	\$ 236.50	\$ 246.10	\$ 9.60		4.1%
100,000	\$ 449.00	\$ 480.10	\$ 31.10		6.9%



## WASTEWATER RATE ALTERNATIVES

- Implement a Residential Consumption Rate Structure
- Two Alternatives with Differing Usage Caps
- Maintain Commercial Rate Structure

Customer Category	Current FY 2022	Alternative 1	Alternative 2
<i>Quarterly Flat/Base/Minimum Charge</i>			
Residential	\$105.00	\$64.40	\$64.40
Commercial	\$105.00	\$105.00	\$105.00
Hotel Room/Sun suites	\$56.00	\$34.66	\$34.66
<i>Consumption Rates (per 1,000 gals)</i>		<i>(36,000 cap)</i>	<i>(45,000 cap)</i>
Residential (For usage up to cap)	N/A	\$3.30	\$3.24
Commercial (above 22,500 gallons)	\$6.30	\$6.30	\$6.30

# UPDATE WASTEWATER RATE ALTERNATIVES

Customer Category	Current FY 2022	Alternative 1	Alternative 2
Quarterly Flat/Base/Minimum Charge <sup>1</sup>			
Residential	\$ 105.00	\$ 69.50	\$ 69.50
Commercial	\$ 105.00	\$ 105.00	\$ 105.00
Hotel Room/Sun suites	\$ 56.00	\$ 37.40	\$ 37.40
Consumption Charges (per 1,000 gals)		(36,000 cap) <sup>2</sup>	(45,000 cap) <sup>2</sup>
Residential (For usage up to cap)	N/A	\$ 2.94	\$ 2.89
Commercial (above 22,500 gallons)	\$ 6.30	\$ 6.30	\$ 6.30

# ALTERNATIVE 1 WASTEWATER RESIDENTIAL IMPACT – 36,000 CAP

RESIDENTIAL WASTEWATER BILLS					
Quarterly Usage	Current FY 2022	Alternative FY 2022	Increase		
			(\$)		(%)
4,000	\$ 105.00	\$ 77.60	\$ (27.40)		-26.1%
8,000	\$ 105.00	\$ 90.80	\$ (14.20)		-13.5%
16,000	\$ 105.00	\$ 117.20	\$ 12.20		11.6%
21,000	\$ 105.00	\$ 133.70	\$ 28.70		27.3%
32,000	\$ 105.00	\$ 170.00	\$ 65.00		61.9%
50,000	\$ 105.00	\$ 183.20	\$ 78.20		74.5%
100,000	\$ 105.00	\$ 183.20	\$ 78.20		74.5%

# UPDATED WASTEWATER RESIDENTIAL IMPACT

## (36,000 GALLON CAP)

RESIDENTIAL WASTEWATER BILLS					
Quarterly Usage	Current FY 2022	Alternative FY 2023	Increase		
			(\$)		(%)
4,000	\$ 105.00	\$ 81.26	\$ (23.74)		-22.6%
8,000	\$ 105.00	\$ 93.02	\$ (11.98)		-11.4%
16,000	\$ 105.00	\$ 116.54	\$ 11.54		11.0%
21,000	\$ 105.00	\$ 131.24	\$ 26.24		25.0%
32,000	\$ 105.00	\$ 163.58	\$ 58.58		55.8%
50,000	\$ 105.00	\$ 175.34	\$ 70.34		67.0%
100,000	\$ 105.00	\$ 175.34	\$ 70.34		67.0%



# ALTERNATIVE 1 COMBINED RESIDENTIAL IMPACT

COMBINED RESIDENTIAL UTILITY BILLS					
Quarterly Usage	Current FY 2022	Alternative FY 2022	Increase		
			(\$)	(%)	
4,000	\$ 165.60	\$ 139.70	\$ (25.90)	-15.6%	
8,000	\$ 180.20	\$ 164.90	\$ (15.30)	-8.5%	
16,000	\$ 210.60	\$ 219.10	\$ 8.50	4.0%	
21,000	\$ 229.85	\$ 255.35	\$ 25.50	11.1%	
32,000	\$ 272.20	\$ 335.10	\$ 62.90	23.1%	
50,000	\$ 341.50	\$ 432.00	\$ 90.50	26.5%	
100,000	\$ 554.00	\$ 674.50	\$ 120.50	21.8%	

## UPDATED ALTERNATIVE 1 COMBINED RESIDENTIAL IMPACT

COMBINED RESIDENTIAL UTILITY BILLS				
Quarterly Usage	Current FY 2022	Alternative FY 2023	Increase	
			(\$)	(%)
4,000	\$ 165.60	\$ 144.96	\$ (20.64)	-12.5%
8,000	\$ 180.20	\$ 168.72	\$ (11.48)	-6.4%
16,000	\$ 210.60	\$ 219.72	\$ 9.12	4.3%
21,000	\$ 229.85	\$ 253.77	\$ 23.92	10.4%
32,000	\$ 272.20	\$ 328.68	\$ 56.48	20.7%
50,000	\$ 341.50	\$ 421.44	\$ 79.94	23.4%
100,000	\$ 554.00	\$ 655.44	\$ 101.44	18.3%

Att D

On behalf of the members of the Fripp Island Property Owners Association (FIPOA), The Fripp Island Resort (FIR), and the Fripp Island Public Service District (FIPSD), we are contacting you to offer our unwavering and unequivocal support of House Bill 4011, sponsored by Representatives Erickson, W. Newton, Herbkersman, Bradley and Rivers. The Bill requested that the SCDOT name the new Harbor Island Bridge in Beaufort County the George J. 'Geordie' Madlinger III Bridge" and erect appropriate markers or signs at the bridge.

The previously mentioned Fripp entities had a long collaborative history with Geordie. Managing regulatory matters is never easy, yet Geordie did so with a smile and a handshake. He was a true friend to residents of the sea islands, especially those in the St. Helena district and Fripp. He managed issues always erring on the side of conservation and if he didn't know the answer, he would direct us to both the agency and point person who did. We are forever indebted to him for going the extra mile during several recent disastrous events especially named storms Matthew and Irma. He was a marvelous steward and mentor to newcomers who waded into gaining an understanding of complex coastal issues and the regulations governing our tidelands and marshes.

As our island continues to grapple with the impact of sea level rise, we will miss his steady guiding hand. It would be a fitting acknowledgement of his legacy, especially to the those of us in the St Helena District, to know that he will be memorialized in such a fitting manner. Please advise if there is any additional advocacy that we can be involved with to see this become a reality.

Sincerely,

Scott Reale, FIPOA president

Doug Wardle FIR president

Dan McCormick PSD Commissioner

Mary Shahid esq. Nexsen Pruet

cc. Jeanne Sargent FIPOA Shoreline Chairman

Dr. Edward Simmer MD director DHEC

Elizabeth B. von Kolnitz section chief OCRM

Blair Williams critical area permitting section manager OCRM

Robert H. Boyles. Jr DNR

Beaufort County Council Members

Gerald Dawson

D. Paul Sommerville

York Glover, Sr.

Alice G. Howard

Brian E. Flewelling

Joseph Passiment

Logan Cunningham

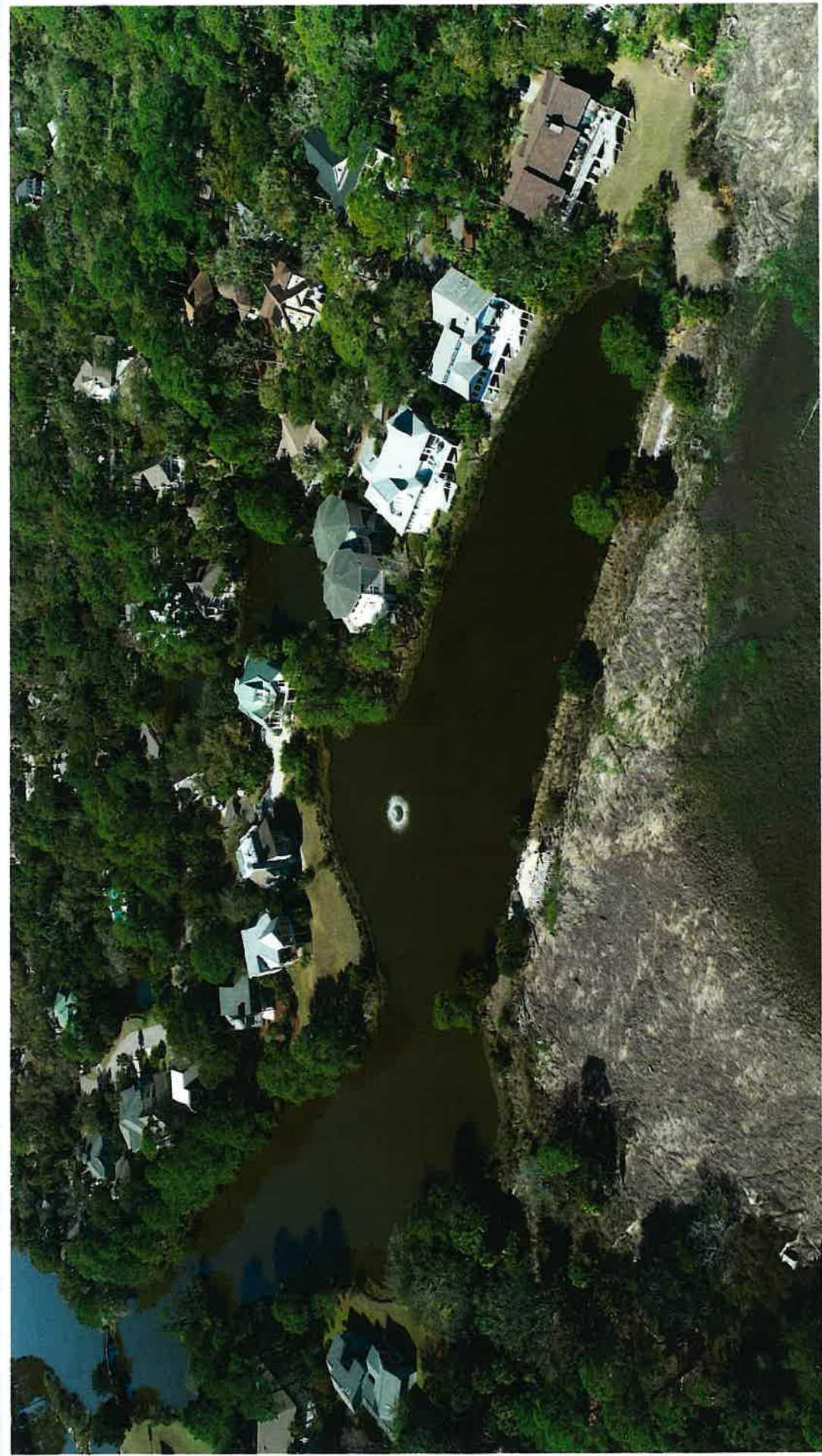
Chris Hervochon

Mark Lawson

Lawrence P. McElynn

Stewart H. Rodman

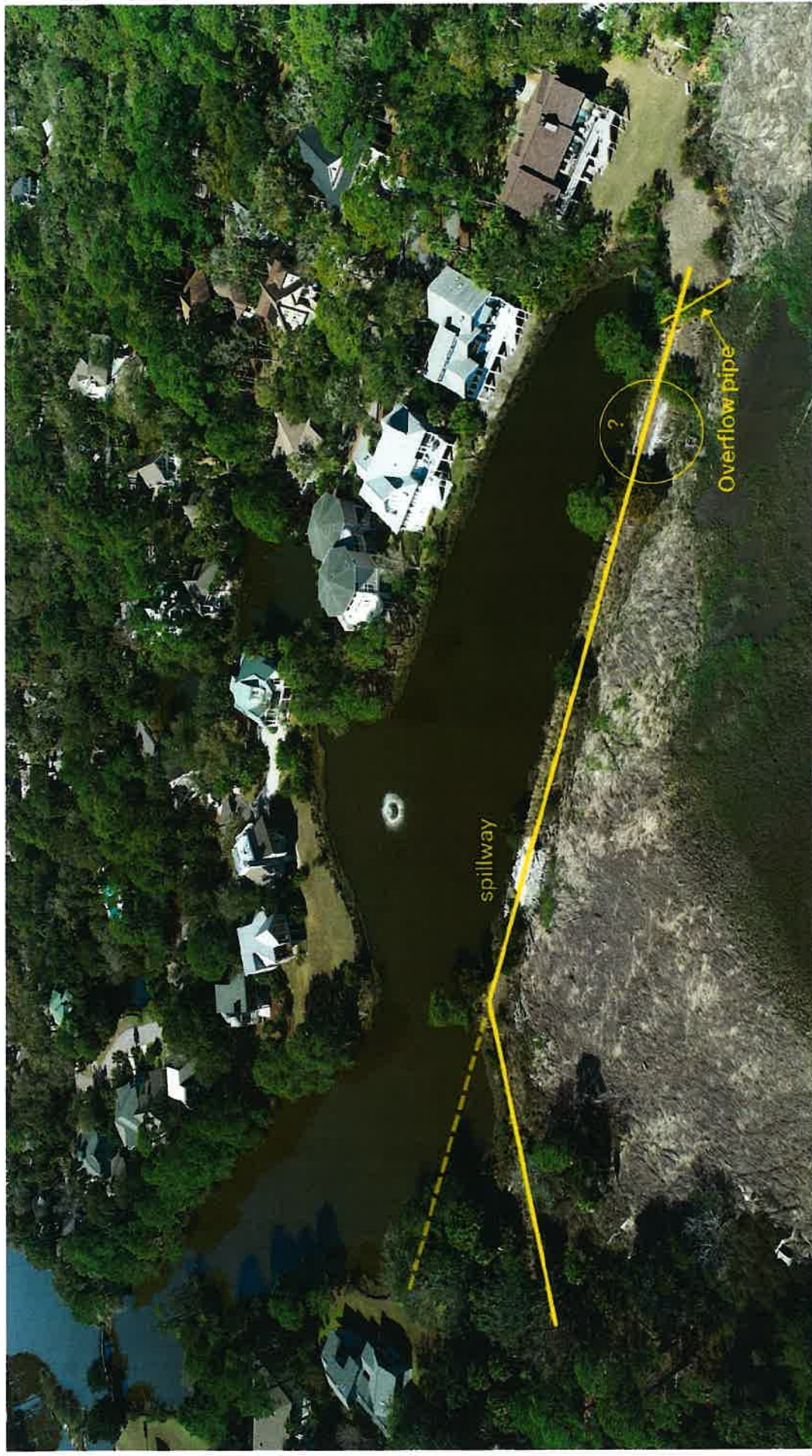




Earthen berm - overall view

Att E





Earthen dam - There appears to be a bend in the dam at a point just past the spillway heading towards the Porpoise Drive right of way, it is not known why. The question mark area may have been the 1999 repaired area, there does not seem to be a pipe visible on the Blue Heron Lake side of the dam in this area, the whole thing may be closed off and/or buried. Current overflow pipe is identified by yellow line.





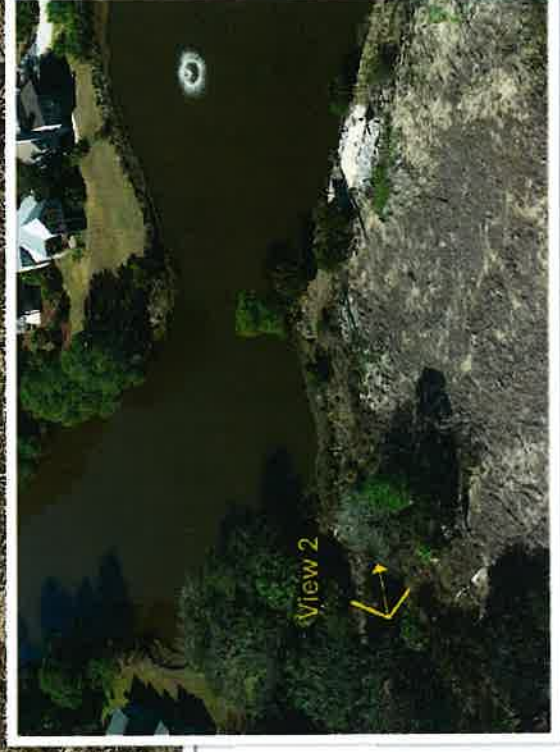
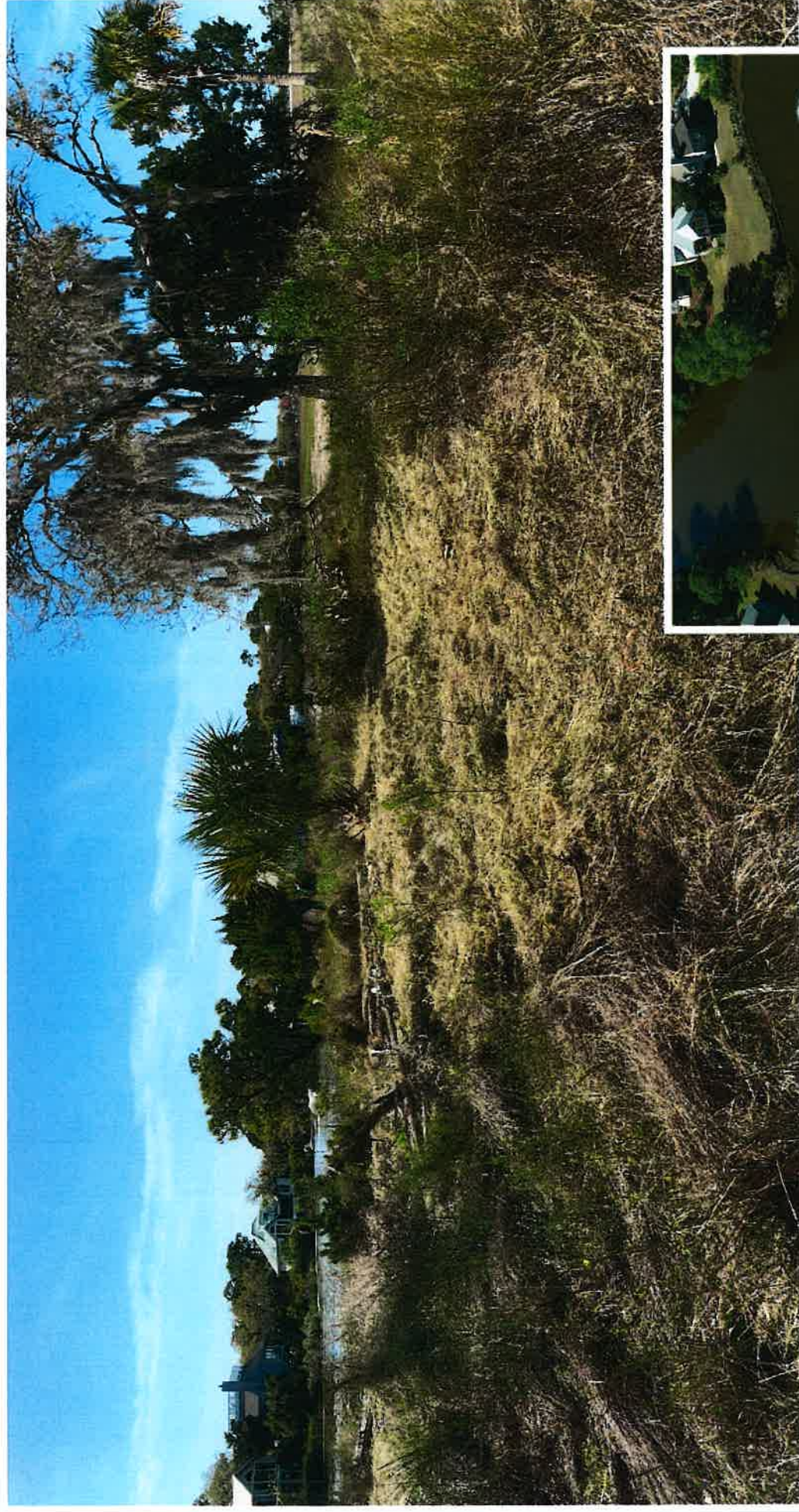
View 1 - looking towards the Porpoise side of the dam where the bend takes place





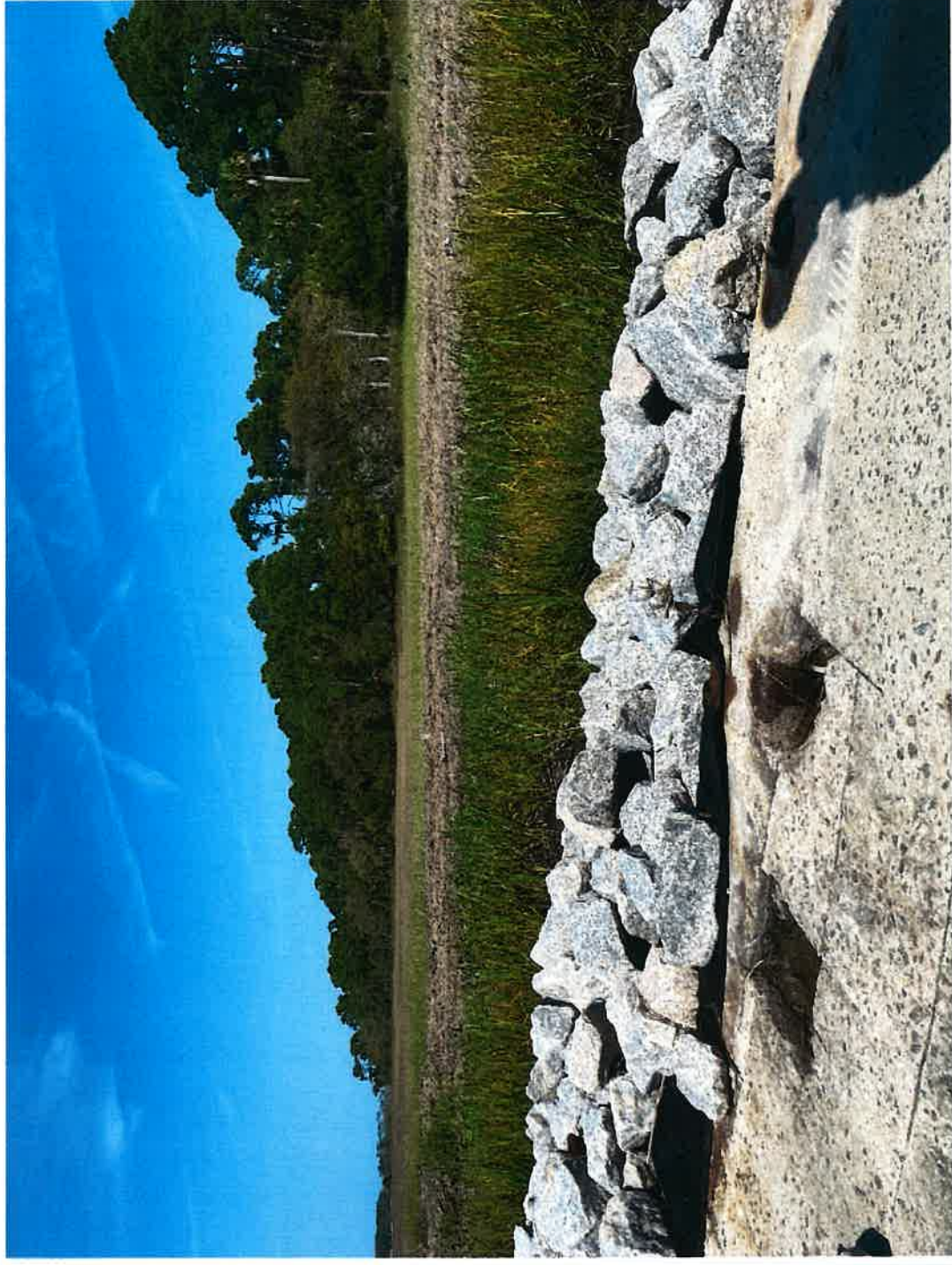
Another view looking towards Porpoise at the edge of the area trimmed. In this area would be where the dam reaches shore, Approximately where the cut logs lay just in front of the camera.





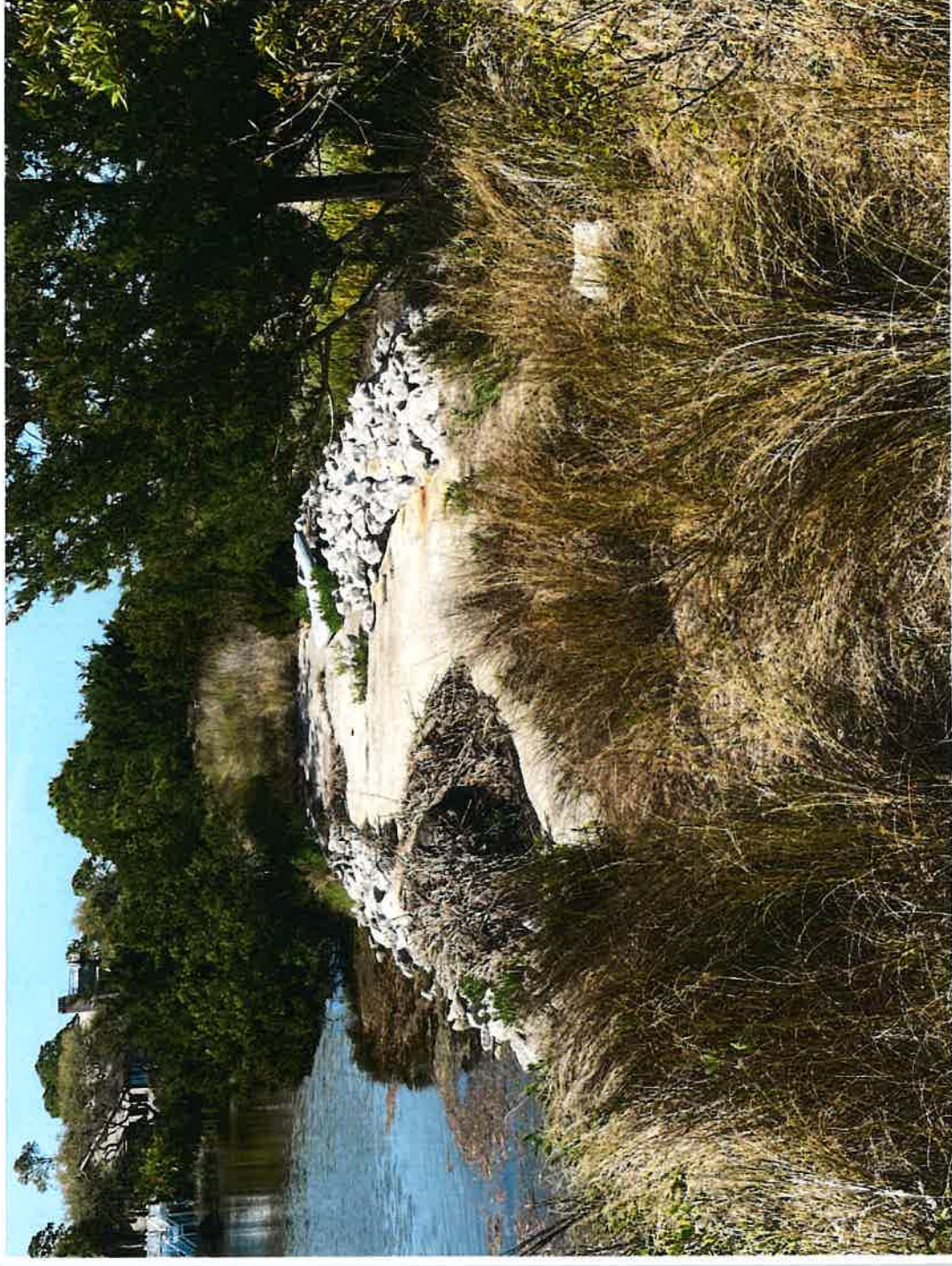
View 2 - looking towards the spillway, this area was trimmed by Earthworx earlier in the day.





Looking towards the salt marsh from the lowest part of the spillway. The height from the salt marsh mud to the spillway is roughly two feet.





Looking towards the Sandpiper Run side of the dam. It is a pretty straight line with the spillway being about two feet lower than the top of the dam. Evidence points to water flowing over the spillway into the lake from the salt marsh side, but not the reverse.