



Loxahatchee River Preservation Initiative

www.lrpi.us

Meeting Minutes

April 15, 2019, 12:00 p.m.

**Town of Jupiter Emergency Operations Center
3133 Washington Street
Jupiter, FL 33458**

- I. Attendance – Refer to attached attendance sheet.
- II. Approval of the February 4, 2019 minutes
A motion to approve the February 4, 2019 minutes was offered by Don Donaldson and seconded by David Brown. Minutes were approved unanimously.
- IV. Old / New Business
 - A. Old Business
 1. Project Update
 - a. David Brown, Town of Jupiter, provided an update on the progress with Jupiter Inlet Village Stormwater Improvements. Love Street exfiltration is completed. Saturn and Clemons Street are under final design; construction to be completed by the end of 2019.
 - b. Pat Walker, Jupiter Inlet Village, provided an update on Mangrove Island. Construction is expected to begin next month.
 - c. Martin County provided an update that the Cypress Creek Weir is complete.
 - d. Albrey Arrington, Loxahatchee River District, provided an update on Island Country Estates Septic to Sewer Conversion. Construction is underway and they submitted their invoice last week.

B. New Business

1. FY20 Legislative Funding Request

Deb Drum provided an update to the committee. The House has fully funded the top 3 projects and Senate funded \$700,000. It was suggested that the committee look at different avenues to get funding for Jonathan Dickinson State Park projects. It was discussed that Martin County is currently pursuing an avenue to sponsor these projects to receive grant funding. An update on this progress will be provided at the next meeting.

2. Scott Harris

Scott Harris of the Andrew “Red” Harris Foundation spoke to the committee regarding its core goal to use funding to protect the environment. Mr. Harris shed light on funding opportunities that exist to assist with environmental protection that are not available to governmental agencies or residents. He offered his foundation to be of help to the committee to receive funding for any projects that would fall under these grant opportunities. See attached handouts.

3. Agency Update – David Brown, Town of Jupiter

David Brown, Town of Jupiter, provided an agency update. Please see attached for presentation materials.

4. Other Business

Palm Beach County Environmental Resource Management will provide an agency update at the June 17th, 2019 LRPI meeting.

5. Public Comment

Rob Rossmann, Jonathan Dickinson State Park (JDSP), informed the committee that Mark Nelson is stepping down from his position with JDSP at 21 years of service. He will be in a transition period until May 1st. JDSP will provide the committee with an update once a replacement is found for Mark’s position. A motion was made by Deb Drum and seconded by Pat Magrogan for the LRPI Chair to send an appreciation letter to Mr. Nelson on behalf of the committee to thank him for his involvement and wish him well.

Adjourn

2019 Initiative Meeting Schedule

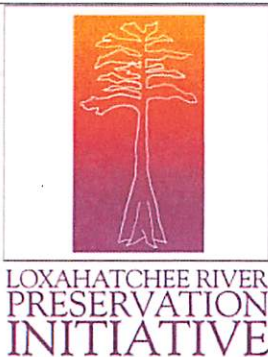
June 17: Distribution of FY20 Initiative Funding Request Applications

July 08: Confirm allocation of project funding

August 19: FY20 Funding Request Applications due

August 26: Presentation of FY20 projects and committee ranking

October 14: General Meeting



SIGN-IN SHEET

April 15, 2019

Loxahatchee River Preservation Initiative

Town of Jupiter Emergency Operations Center
3133 Washington Street, Jupiter, FL 33458

NAME	AGENCY	E-MAIL ADDRESS
Deb Drum	PBC ERM	ddrum@pbcgov.org
Pat Magrogan	PBC Co. @ Large	AMMAGPO@N@Gmail.com
Tom Reinert	FWC	tom.reinert@myfwc.com
David Brown	TOJ	davidb@jup.kr.fl.us
Patricia Walker	JID	pw1kr1122@bellsouth.net
LAURA CORRY	SFWMD	LCORRY@SFWMD.GOV
Michael Dillon	SIRWCD	dillon@sirwcd.org
Steve Weagle	WPTV/MARTINCO	SWEAGLE@WPTV.com
Don Donaldson	Martin Co	dondonalds@martin.fl.us
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Rob Rossmanith	JDSP	robin.rossmanith@dep.state.fl.us
Brianna Nowakowski	Family Lands remembered	brinowakowski@gmail.com
Anne Cox	" " "	anne@familylandsremembered.biz
Brittany George	TOJ	Brittanyg@jupiter.fl.us
NESTOR GARRIDO	SFWMD	NGARRIDO@SFWMD.GOV
Liz Diaz	SFWMD	ldiaz@sfwmd.gov
Mileneda Joseph	SFWMD	mjoseph@sfwmd.gov
PATRASH	PBC PARUS	PRASH@PBCGOV.ORG
John Maenl	Martin BOCC	jmaenl@martin.fl.us
Scott Harris	Andrewkel Harris fund	scottharris@uscomail

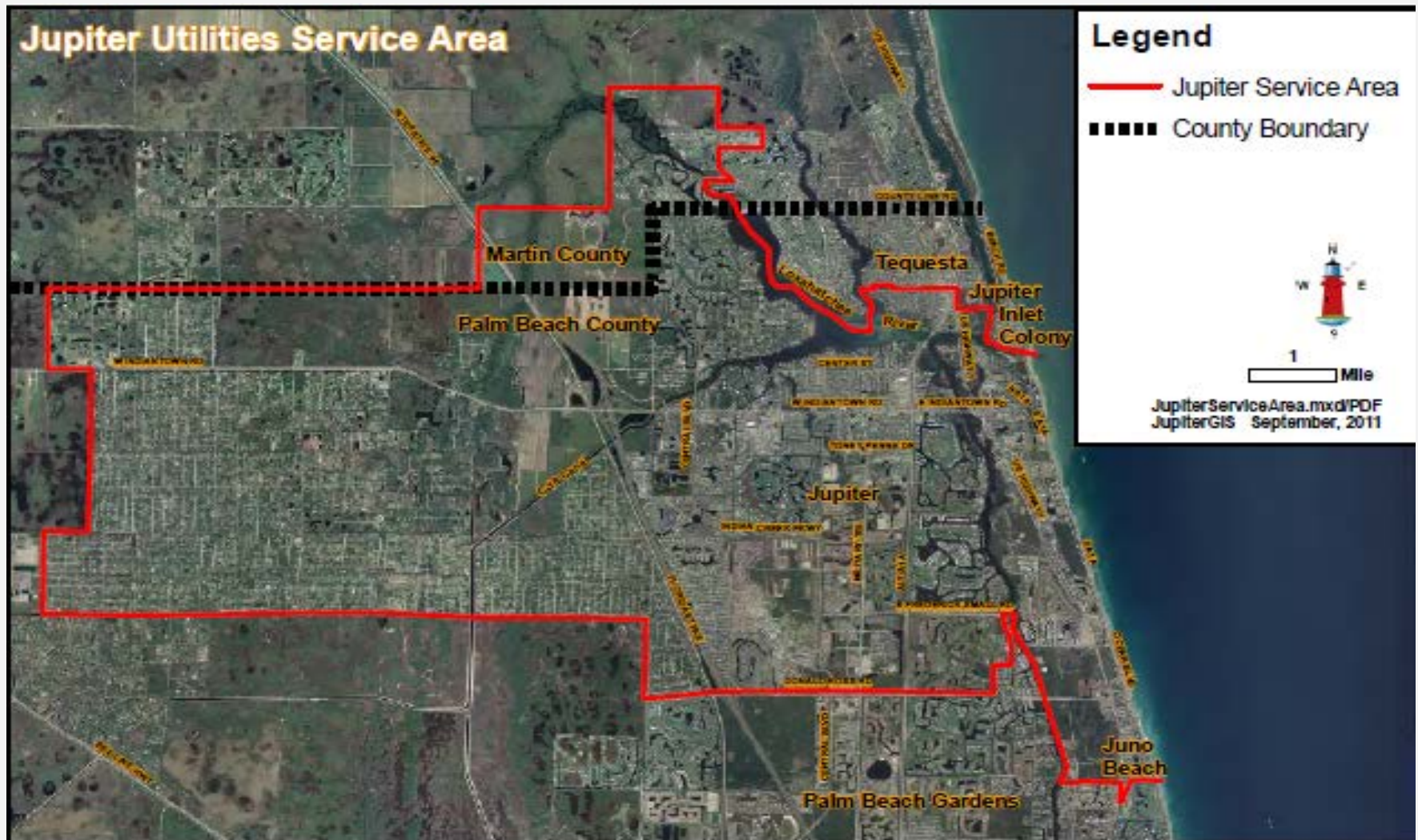


LOXAHATCHEE RIVER
PRESERVATION
INITIATIVE

UTILITIES

APRIL 15, 2019

WATER SERVICE AREA



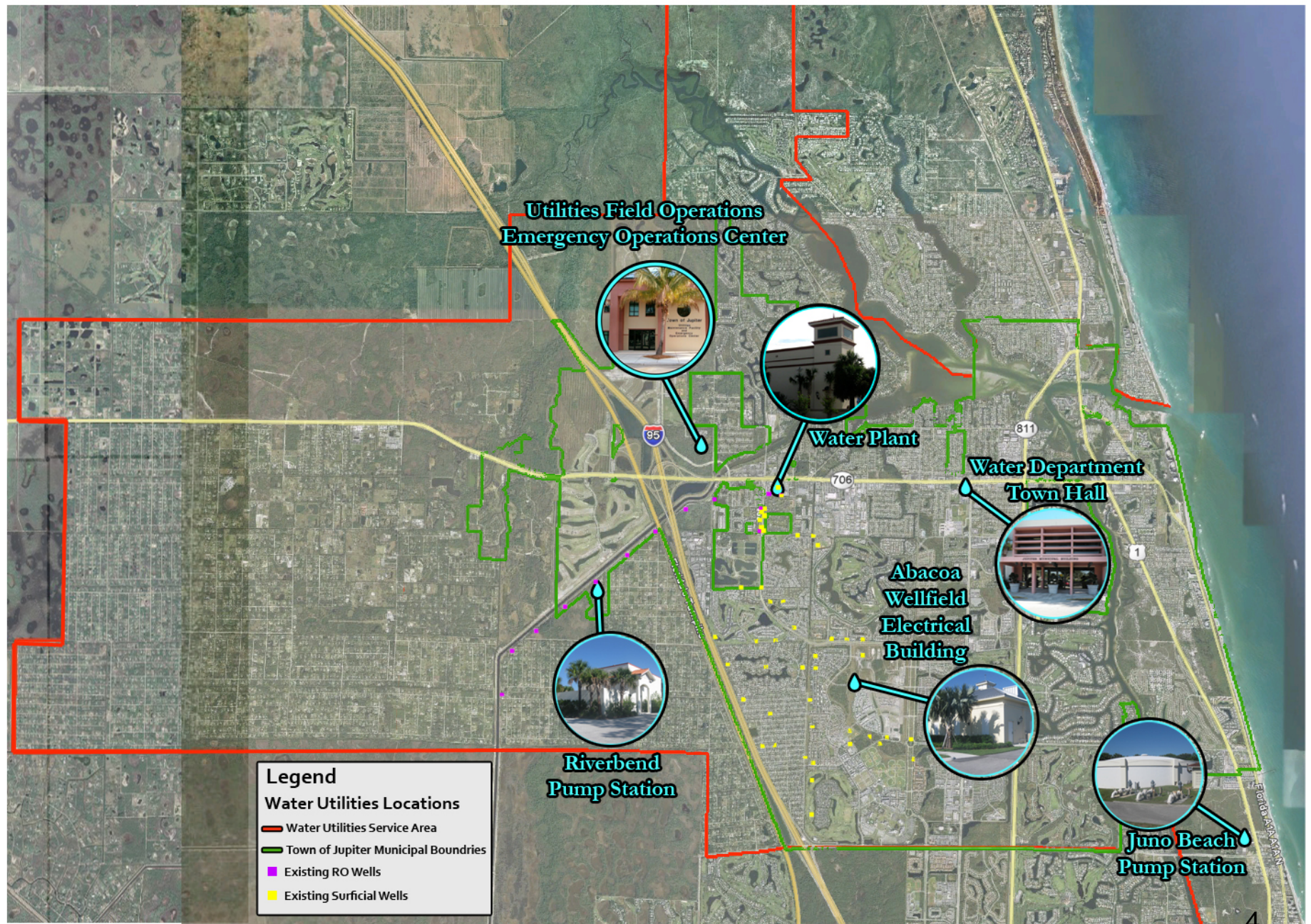
LOOKING TO THE FUTURE

Current Population Served: 88,000
2035 Population Projection Served: 96,500

Current System
Capacity: 30 MGD

2035 System
Demand: 28 MGD





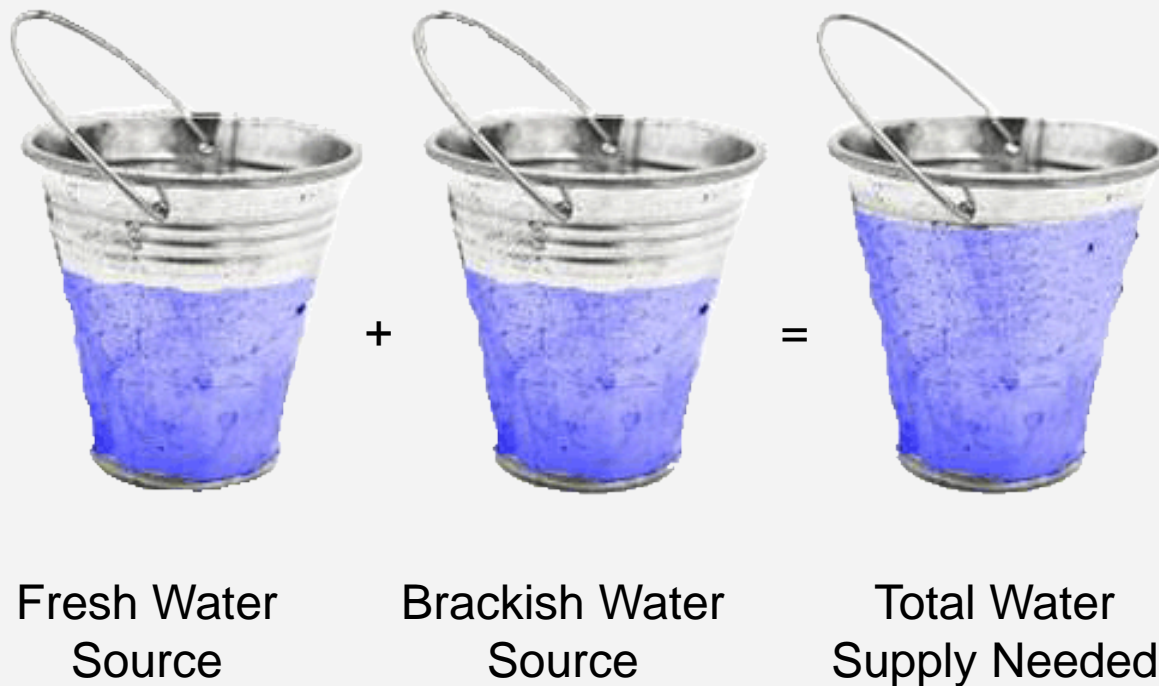
JUPITER'S WATER SUPPLY PROGRAM

- Dual Aquifer Resources: Brackish water desalination for half of its potable water production capacity
- 100% Membrane Water Treatment Technology utilize for enhanced drinking water quality
- Stormwater Utility established to serve as means to proactively work to minimize risk of flooding and enhance stormwater runoff quality entering local water
- Environmental Stewardship – Loxahatchee River Preservation Initiative (LRPI)



POTABLE WATER SUPPLY PRODUCTION HISTORY

- Potable Water Supply System developed with maximum production flexibility to minimize the impacts of periodic drought while preserving limited fresh water supplies for the local environment.



BALANCE OF WATER PRODUCTION

BALANCE OF WATER PRODUCTION

**FRESHWATER FROM
SURFICIAL AQUIFER (150 FT.)**

**BRACKISH WATER FROM
FLORIDAN AQUIFER (1500 FT.)**

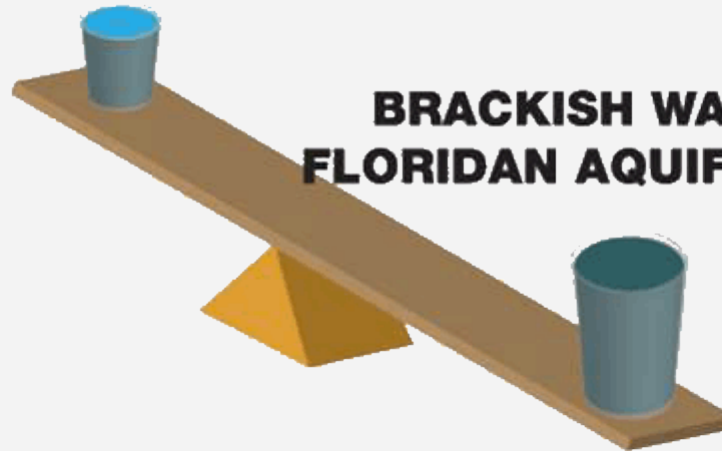


In normal conditions, production can be adjusted to needs.

POTABLE WATER SUPPLY PRODUCTION HISTORY

BALANCE OF WATER PRODUCTION

**FRESHWATER FROM
SURFICIAL AQUIFER (150 FT.)**

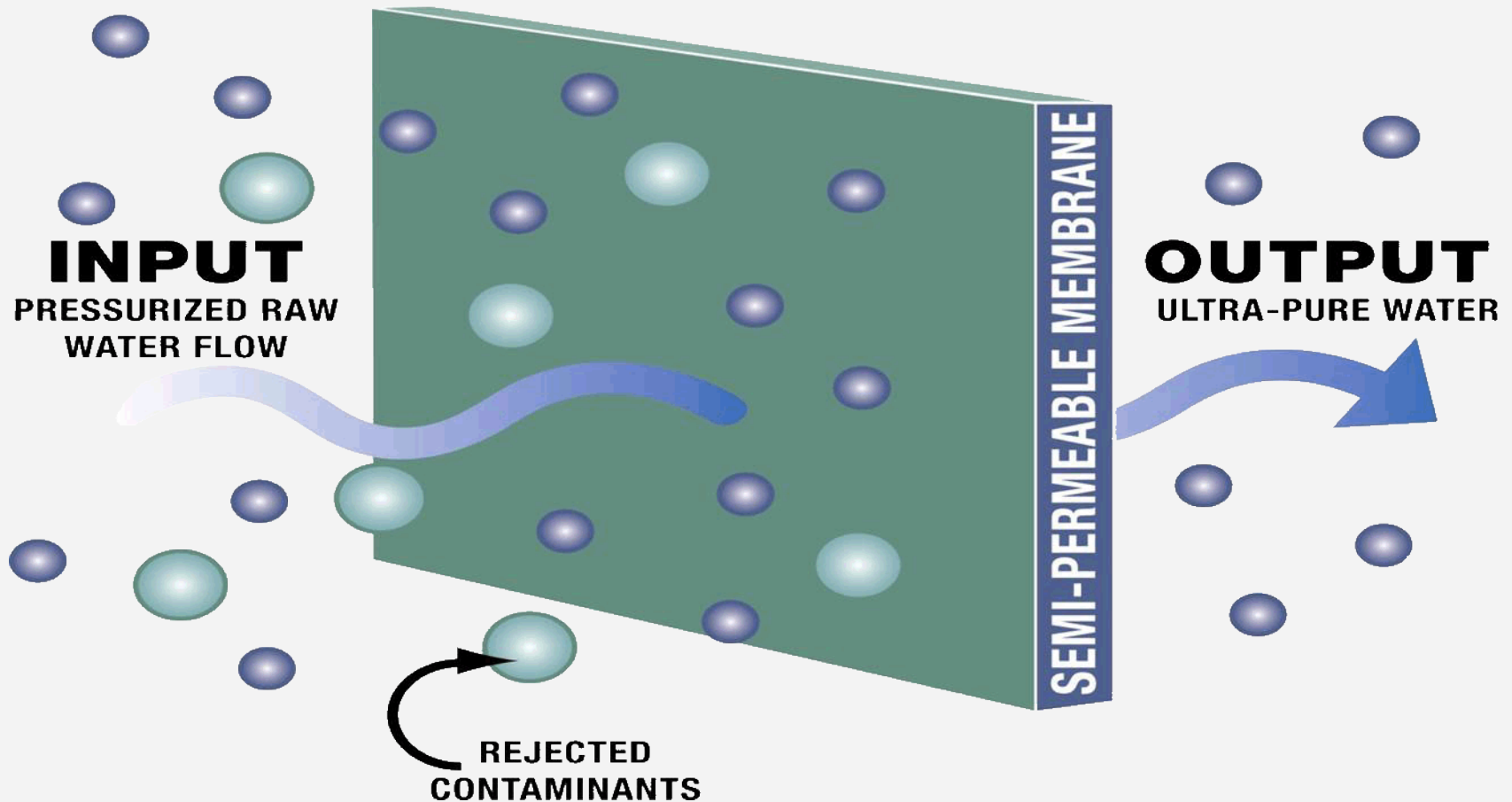


**BRACKISH WATER FROM
FLORIDAN AQUIFER (1500 FT.)**

In drought conditions, production shifts to reverse osmosis to preserve freshwater supplies for the environment.

100% MEMBRANE TREATMENT

How Membrane Technology Works



WATER PLANT AERIAL VIEW



RO VS. NF



- Reverse Osmosis (RO)
 - Operating Pressure: 200 psi
 - (brackish) Supply



- Nanofiltration (NF)
 - Operating Pressure: 60 psi
 - Surficial Aquifer (fresh) Supply

REVERSE OSMOSIS AND NANOFILTRATION



Reverse Osmosis and Nanofiltration

- Produce ultra-pure drinking water
- Quality of product meets and exceeds current and foreseeable future drinking water regulations

JUPITER'S NANOFILTRATION PLANT IS ECO-FRIENDLY

- First-in-the-world design which results in 30% power savings
- All by-product water reused as an irrigation quality water resource

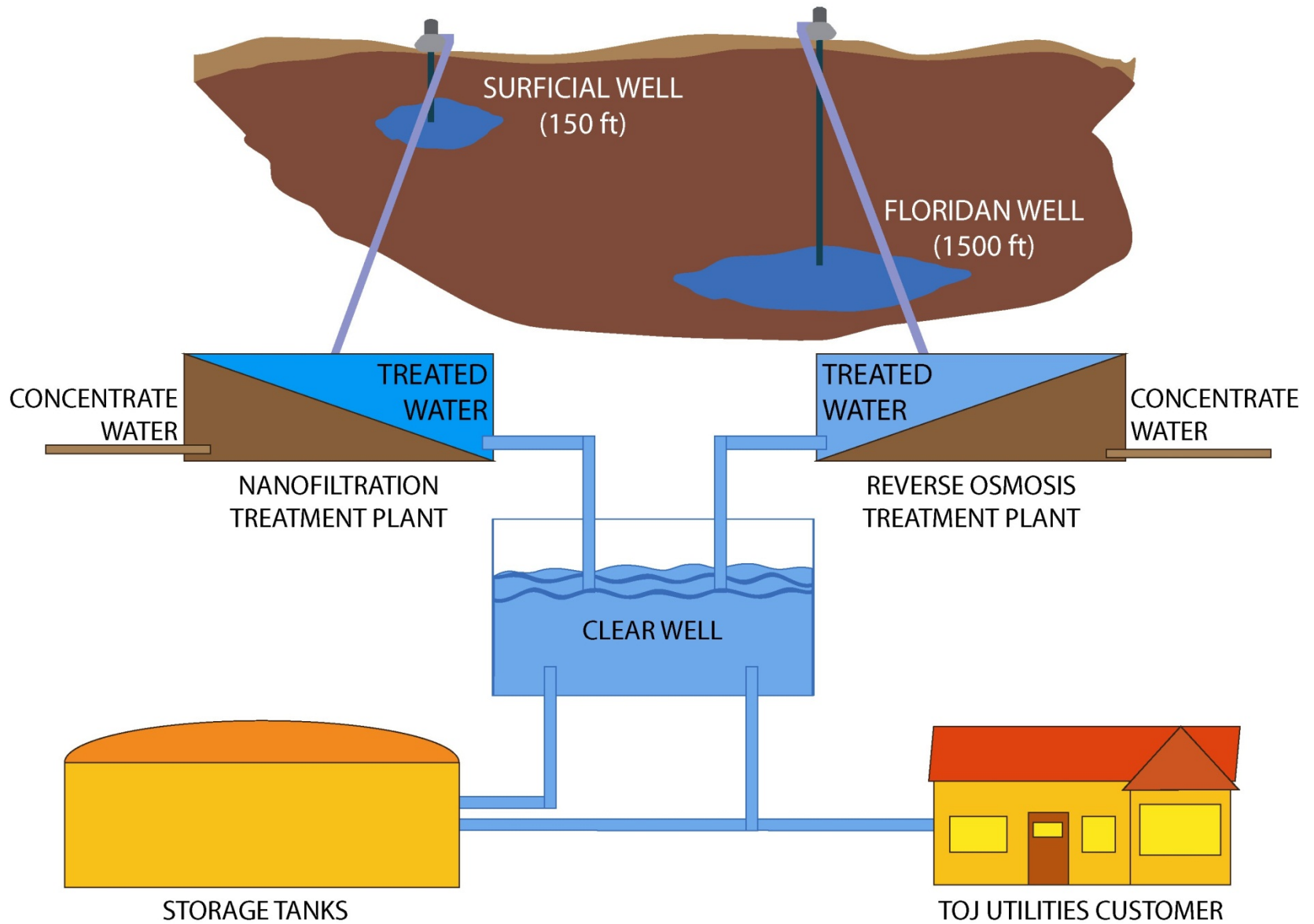


WEST ELEVATION



NORTH ELEVATION

SOUTH ELEVATION



STORMWATER UTILITY



Created in 1994, dedicated to enhancing stormwater runoff quality and minimizing the risk of flooding

GIVING YOU OUR BEST

- 2019 AWWA/AMTA Membrane Facility of the Year Award
- US EPA Award of Excellence – 3 time award winner
- 2008, 2009, 2010, 2013 & 2016 FDEP Plant Excellence Award Winner
- 2008, 2009, 2010 & 2014 FSAWWA Best Class A Treatment Plant
- Honored as recipient of over 50 Awards of Excellence from industry associations and agencies which regulate its operation



BENEFITS OF JUPITER'S WATER PROGRAMS

- Drought proofing
- Enhanced drinking water quality
- Preservation of local water environment
- Regional sustainability





UTILITIES



Jones Creek Watershed

Targeted Area of Concern

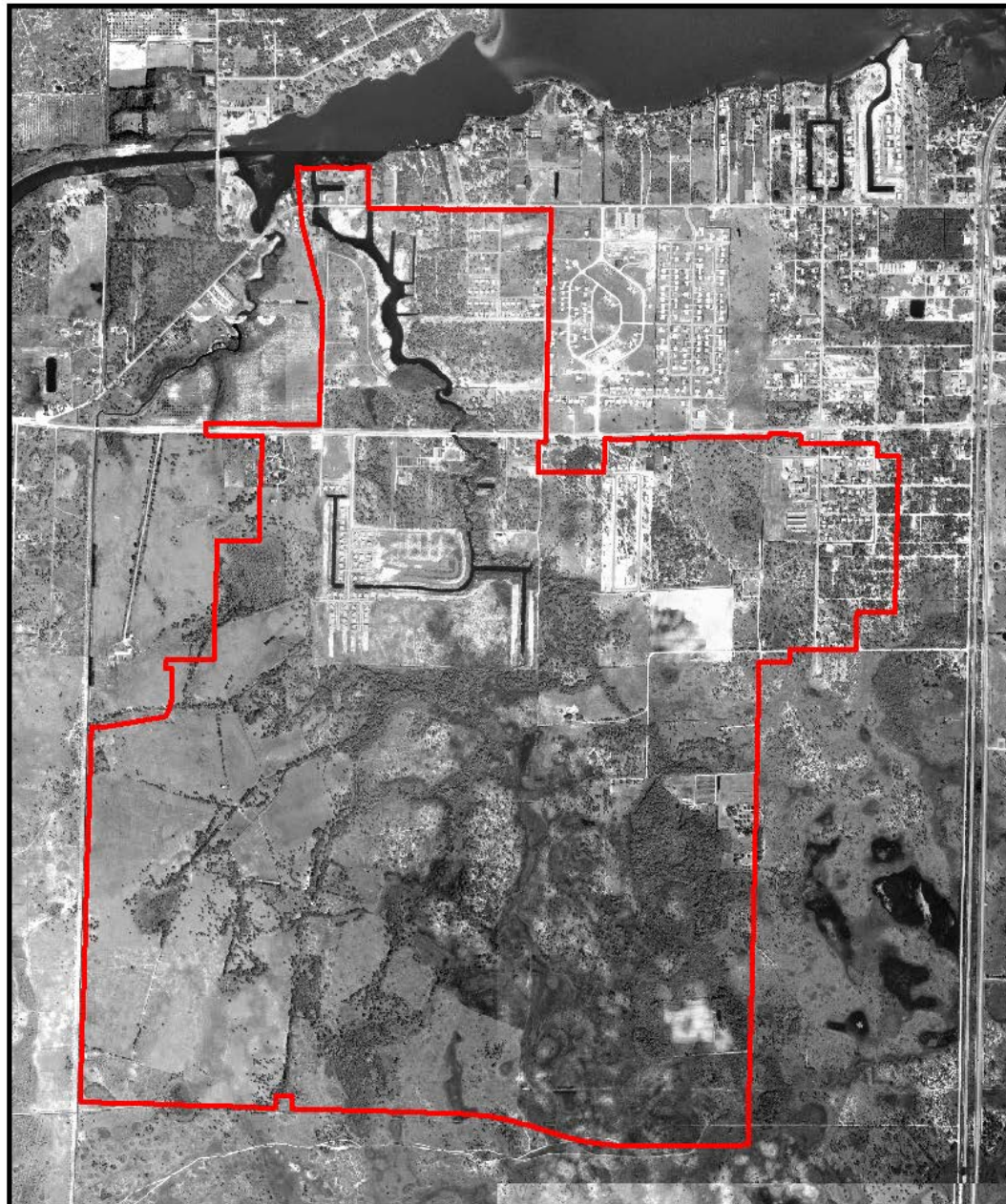
Addressing the water quality issues
within the man-made canal systems
located within Jupiter River Estates,
Maple Isle and the Colony

Jupiter River Estates Canal System

- Canals are privately-owned waterways constructed as part of the development of JRE.
- In general, private property lines span to the centerline of the canals.



Jones Creek Basin 1964

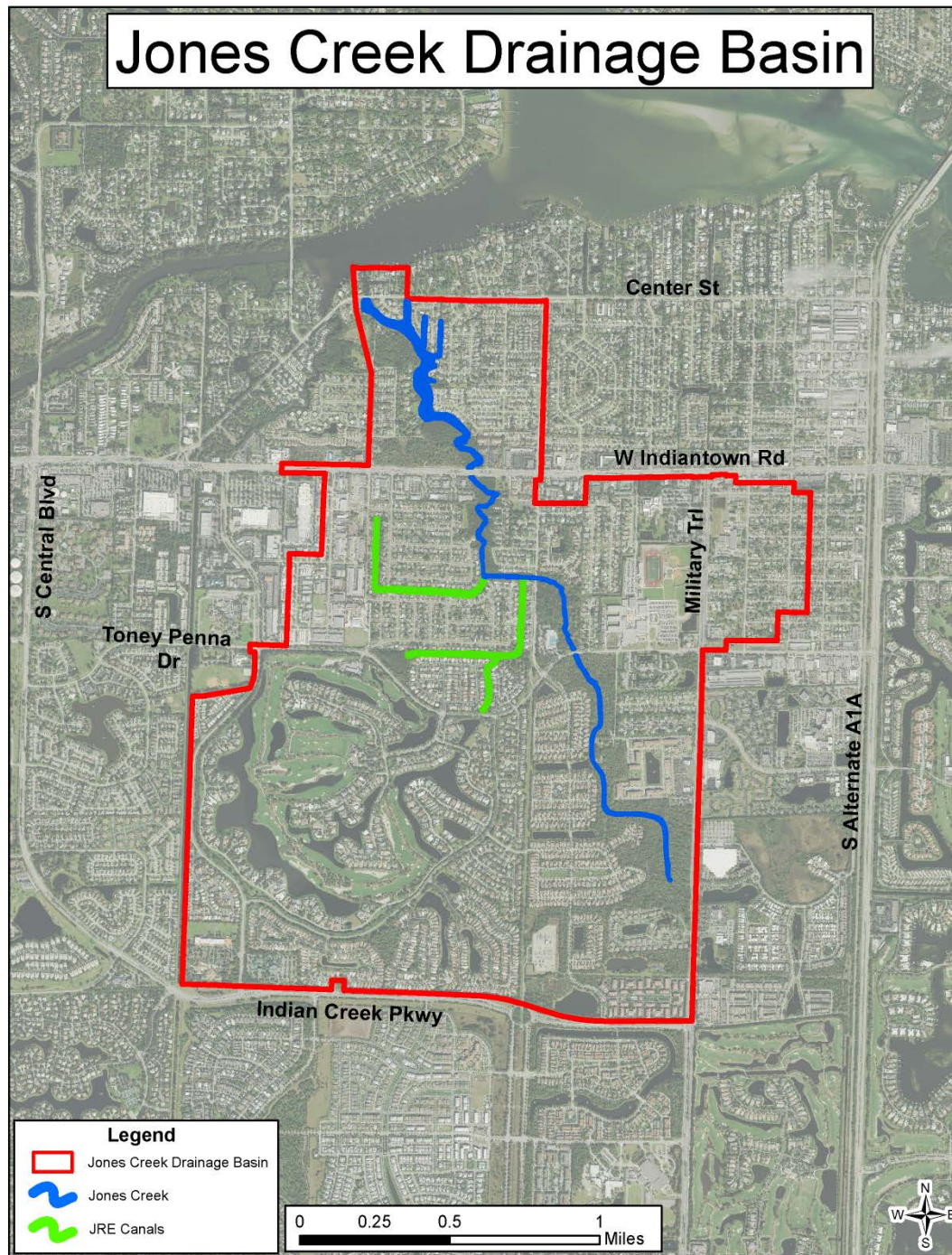


1,500
Feet



Jones1964a.mxd / PDF
JupiterGIS April, 2019

Jones Creek Drainage Basin



Prior Condition of Canals

- Dead-end canals
- Canal bottoms covered in several feet of muck
- Bank erosion typical / Many sections of canal shorelines (back yards) are steep and unstabilized
- Exotic vegetation



Jupiter River Estates Canal System

Past Efforts to Assist

1990 +/-:

Town formed the Jones Creek Task Force and community reps worked actively with the Town to define improvements needed in the watershed.

1997:

Septic to Sewer conversion completed by Loxahatchee River District

2000:

Town initiates formation of the Loxahatchee River Preservation Initiative to work collaboratively with state legislature while seeking funding for local water quality improvement projects.



Jupiter River Estates Canal System

Past Efforts to Assist

2003:

The state legislature through a grant provided to the Loxahatchee River Preservation Initiative enabled the removal of 13,000 cubic yards of muck from the canal bottom, removed exotic vegetation and provide shoreline bank stabilization. Total investment: \$1,918,461.



Jupiter River Estates Canal System

Past Efforts to Assist

2003:

After completion, property owners were urged to maintain canal banks



Jupiter River Estates Canal System

Past Efforts to Assist

2007:

TOJ Stormwater Utility & LRPI partner to perform hydrologic restoration of Jones Creek Hammock immediately upstream.

Total Investment: \$417,420



Jupiter River Estates Canal System

Past Efforts to Assist

2009:

TOJ Stormwater Utility & LRPI partner to reconstruct swales within entirety of JRE. Total Investment: \$377,486



Jupiter River Estates Canal System

Current Efforts to Assist

2017:

- Dialogue on how to now address the current state of the man-made canal sections occurring with new JRE working group.
- Nutrient levels, bacteria all topics of concern
- Major hurdle was educating property owners that canal is privately-owned, not town-owned. Furthermore, the chances of future large grants from the state are highly unlikely. Benefitting owners agreed to consider special taxing district assessment.

Jupiter River Estates Canal System

Current Efforts to Assist

2017/2018:

- All agree that vegetation trimming needed first.
- Town obtained a FDEP mangrove maintenance trimming permit to facilitate. Exotics may be removed and FDEP agrees to allow minimal 15' w x 5' h opening through mangrove canopy.

Jupiter River Estates Canal System

Current Efforts to Assist

2018:

- Town obtains cost proposal from certified mangrove trimmer to perform the work.
- Town agrees to recommend a 50% Stormwater Utility grant toward this cost if property owners agree to assessment for balance and agree to annual maintenance trimming assessment.
- Response of property owner polling by community reps reported as generally unfavorable but support would increase if grant assistance significantly brought down the initial trimming cost.

Jupiter River Estates Canal System

Current Efforts to Assist

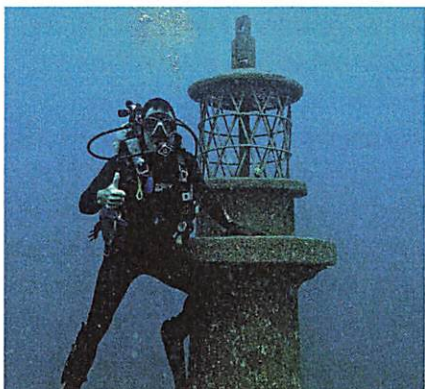
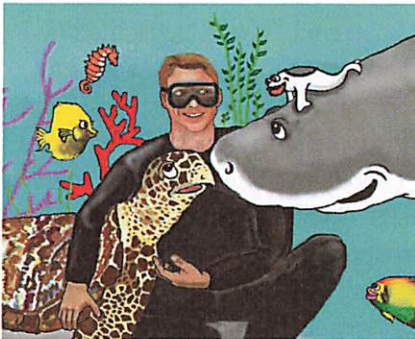
2019:

- Working Group asked that the Town consider requesting FDEP for a more expansive mangrove trimming effort.
- Total cost for submitting this permit is \$47,000. Town is reluctant to proceed without prior assurances that benefitting properties will proceed with work/future upkeep if permit is ultimately obtained.



Questions & Discussion





The **Andrew "Red" Harris Foundation** is a 501C3 non-profit that strives to enhance the marine environment by building artificial reefs and to protect it by encouraging children to love our oceans, rivers and lakes.

In 2018 we deployed two 250 ton boulder reefs and placed 32 of our four ton "Coral Heads" adjacent to them.

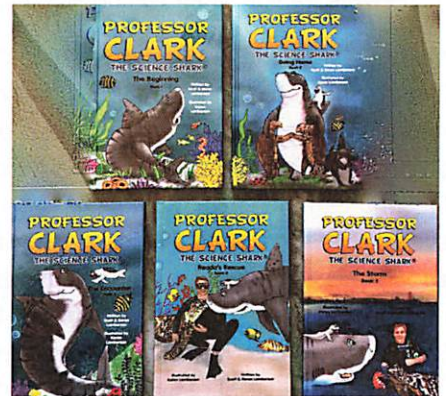
We also began a significant education initiative in 2018 by donating a 5 book set of the "Professor Clark the Science Shark" series to every third grade classroom in Florida, 55,000 books in all!

Children love the story of the little boy (Andrew) who becomes lifelong friends with an orphaned tiger shark pup. The marine animals communicate their needs through Andrew to the human world. Together they clean up a reef and a beach, and then help save a sick turtle as they teach Florida children to love the Atlantic Ocean, Gulf of Mexico and our rivers and lakes.

Reefs the Foundation has built include:

- 40 Coral Heads in 39' of water in 2015
- 100 Coral Heads in 58' in 2016
- a 300 ton boulder reef in 58' in 2016
- 15 Coral Heads on the Snorkel Trail in 2016
- 132 Coral Heads in 58' in 2017
- four 250 ton boulder reefs in 58' in 2017
- a 17' tall replica of the Jupiter lighthouse
- 32 Coral Heads in 75' in 2018
- two 250 ton boulder reefs in 75' in 2018

The Foundation is 100% volunteer and receives tax deductible funding from individuals, businesses and foundations. We were selected as the Loggerhead Marinelife Center's "Blue Ambassador of the Year" in 2016 and their "Blue Business of the Year" in 2018. We hope our efforts and results incent others to join us and invite you to contact us and tell us how you can help!



Guy Harvey Magazine feature article excerpt, Summer 2017 Edition, "REEFS WITH A CAUSE"

When you work on a noble cause, you will usually find success. That is certainly the case with the Andrew "Red" Harris Foundation, an organization that was born out of tragedy but today has gained the attention of thousands of water lovers for building innovative, artificial reefs. They've even caught the eye of country music superstar Kenny Chesney.

Andrew Harris was an inspirational young man who died at age 26 when he was struck by a boat while snorkeling on June 8, 2014. Loved and admired by many, Andrew had begun a career in the insurance business and had found great success.

As a youngster, Andrew was always a gifted athlete. In high school he had the distinction of being named to the Palm Beach Post's All Area team in both golf and basketball on the same day. And he was voted MVP of the Jupiter High School basketball team his senior year. Raised on the water in the Jupiter area, he loved to fish, snorkel, scuba dive and just be out on the ocean. When he thought about college, he decided to apply to only one: Florida State University, a school he loved dearly. But, his early attempts to get in were denied. Andrew continued to pursue his dream and graduated from FSU with honors.

"June 7, 2014 was the happiest day that Andrew and Ryan, our younger son, spent together," Scott said. "It was highlighted by Ryan being drafted and getting a nice bonus from the Boston Red Sox. The next day was our saddest." Since that dreadful day, Andrew's mother and father and many of their friends have worked together to honor his memory by building reefs for snorkeling, diving and fishing. The Andrew "Red" Harris Foundation has made it their mission to enhance the waters he loved to help ensure the long-term health of the oceans and to assure that he will not be forgotten. They've held golf and tennis tournaments many other events to raise money to build reefs. The foundation also sells its own shirts through their website. Understandably, Andrew's mom and dad, Scott and Martha Harris, are the driving force behind the foundation. They were determined to do something in Andrew's memory but they weren't sure where to begin. "We started out with college scholarships," Scott said, "but didn't get much interest from local schools. It's a very crowded space. Then we started to think about Andrew's hobbies like golf, fishing and diving and we decided that artificial reefs would be perfect! "Andrew loved fishing and diving and we thought, 'how hard could building artificial reefs be'." Scott says with a laugh.

If getting the foundation cranked up was difficult, the Harris's never let it show. They began the organization in August, just two months after the accident, and by November they had formed a viable plan to build and deploy hand-made, custom concrete modules. Nine months later, they sunk 40 artificial reefs and the next summer, in August 2016, they deployed 100 more - 50 pyramids and 35 custom-designed "Coral Heads." They also put down 15 prototype concrete block reefs. A few months later, in November 2016, they placed 15 "Lagoon Coral Head" modules at the Blue Heron Bridge Snorkel Trail at Phil Foster Park in Palm Beach County. To date, the Andrew "Red" Harris Foundation has 155 reefs deployed and another 134 under construction. "The Palm Beach County ERM staff has been instrumental in the whole process," Harris said. "They have guided me since day one and have been great partners. Their knowledge and expertise has really helped us to achieve our goals. "If building reefs began an emotionally healing process for the Harris family, it also had the side benefit of advancing the science of artificial reefs. Placing many of their reef modules on a site where an ancient natural reef once existed has been clearing the smothering sand from the underlying bedrock and re-exposing the natural sea floor. "It's more important where you build an artificial reef than what you build it with," Harris said. "And we think we have the best possible site: thin sand over flat bedrock in shallow water with good visibility. It's no surprise that 100 percent of the money raised by the foundation goes to reef building. And, so far, they've brought in more than \$900,000, some of which has come in the form of grants, fundraisers and donations of labor. For example, Palm Beach County pays for deploying the reefs, CCA and Building Conservation Trust have been major donors, Morgan and Eklund donated the sub-bottom survey, the Wantman Group donated the engineering and Kimley-Horn made festival display boards. Jupiter Dive Center contributed funds and boats for deployment viewing. Of course, the Harris family itself has also been a major donor. "We are not just asking others to contribute, we are putting our own money and time in," Harris said. "It's important to us, and our community increasingly sees the benefits as our projects move from theoretical to actual and our dreams become real as the thriving new reefs we build help Jupiter's marine environment". As the foundation continues to do good and do well, more positive things are happening. Now, country music superstar Kenny Chesney and his No Shoes Nation have pledged their support. Chesney has partnered with ENGEL Coolers to create No Shoes Reefs. The goals are to raise awareness and funding to protect precious coral reefs, which are vital for aquatic ecosystems to thrive. Limited edition "No Shoes Reefs" shirts and hats are available and a portion of the proceeds go directly to the Andrew "Red" Harris Foundation to assist in artificial reef building and deployment. "Our long term goal is to honor Andrew's memory by seeing the foundation become a self-sustaining organization for building and advancing the science of artificial reefs," Harris said. Anyone interested can sponsor a reef module for \$5,000 or an entire boulder pile reef for \$20,000. Three of the boulder piles are going in this year. Contributions of any amount are welcome.

data

Copyright 2019 Foundation Center															
Grantmaker Name	Contact	Street Address 1	Street Address 2	City	State	ZIP Code	Country	Telephone	Fax	E-mail	URL	Total Assets	Total Giving	Amount Funded	Grant Count
Community Foundation for Palm Beach and Martin Counties		700 South Dixie Highway Suite 200		West Palm Beach	FL	33401	United States	(561) 659-6800	(561) 832-6542	info@cfpbmc.org	http://www.yourcommunityfoundation.org	150709106	8255264	156350	6
The Bank of America Charitable Foundation, Inc.		100 North Tryon Street	NC1-007--20-05	Charlotte	NC	28225	United States			foundation@bankofamerica.com	http://www.bankofamerica.com/foun	56346261	162446844	11800	6
The Kenneth Reutlinger Foundation, Inc.		5417 Pueblo Rd.		Louisville	KY	40207-1619	United States	5028970846				463776	24900	1350	6
McKnight Foundation	Kate Wolford, Pres.	710 S 2ND STREET		Minneapolis	MN	55401	United States	(612) 333-4220	(612) 332-3833	info@mcknight.org	http://www.mcknight.org	2.407E+09	90879172	850000	4
The Batchelor Foundation, Inc.		1680 Michigan Ave., PH1		Miami Beach	FL	33139	United States	(305) 534-5004		info@bflinc.org	http://bflinc.org/	370820631	20018458	70000	4
Publix Super Markets Charities	Kelly Williams-Puccio, Exec. Dir.	3300 Publix Corporate Pkwy.		Lakeland	FL	33811-3311	United States	(863) 686-8754			http://publixcharities.org/	769179425	40273888	6500	4
United States Geological Survey		12100 Beach Forest Rd		Laurel	MD	20708	United States	(888) 275-8747			http://www.usgs.gov			216343	2
SOUTHWEST FLORIDA COMMUNITY FOUNDATION		8771 College Parkway	Bldg 2 Suite 201	Fort Myers	FL	33919	United States	(239) 274-5900	(239) 274-5930	info@floridacommunity.com	https://floridacommunity.com/	126767839	6422577	107874	2
Smith Richardson Foundation, Inc.	Marin J. Strmecki, Sr. V.P. and Dir., Progs.	701 Green Valley Road	306	Greensboro	NC	27408-7096	United States	(203) 222-6222	(203) 222-6282	ihollings@srf.org	https://www.srf.org	474671393	22237554	60000	1
The Community Foundation of Sarasota County, Inc.	Patricia Martin, Mgr., Grants and Community In	2635 Fruitville Rd		Sarasota	FL	34237-5222	United States	(941) 955-3000	(941) 952-1951	info@cfsarasota.org	http://www.cfsarasota.org	304294808	24832334	31404	1
Frances Langford Foundation		P.O. Box 96		Jensen Beach	FL	34958-0096	United States	(918) 744-5222				8564538	5551000	25000	1
William and Helen Thomas Charitable Trust		PO Box 1802		Providence	RI	02901-1802	United States	888-866-3275	(772) 403-1617	bonney.johnson@ustrust.com	http://fdnweb.org/thomas	22042429	1437500	25000	1
The Keith Campbell Foundation for the Environment, Inc.		1450 Sutter St., Ste. 510		San Francisco	CA	94109-5418	United States	(415) 722-4739		pacificadmin@campbellfoundation.org	http://www.campbellfoundation.org	168353554	17025968	10000	1
Community Foundation of Broward	Sheri Brown, V.P., Grants and Initiatives; Linda	910 E LAS OLAS BLVD SUITE 200		Fort Lauderdale	FL	33301	United States	(954) 761-9503	(954) 761-7102	lcarter@cfbroward.org	http://www.cfbroward.org	171966018	7790641	10000	1
Innovating Worthy Projects Foundation		4045 Sheridan Ave., Ste. 296		Miami Beach	FL	33140-3665	United States	305-861-5352	(305) 868-4293	info@iwpf.org	http://www.iwpf.org	5257734	174941	10000	1
Knopf Family Foundation, Inc.		90 Baystate Road		Wakefield	WA	1880	United States	781-246-1810				23564201	990500	10000	1
Frank E. Duckwall Foundation		P.O. Box 3351		Tampa	FL	33601-3351	United States	(813) 634-4172				8349882	392374	5000	1
MAH Foundation, Inc.		7111 Fairway Drive	104	Palm Beach Gardens	FL	33418	United States	(561) 656-0609			http://www.mahfoundation.org	3676054	207000	2500	1
Michael & Susan Dell Foundation		P.O. Box 163867		Austin	TX	78716-3867	United States	(512) 600-5500	(512) 600-5501	info@msdf.org	https://www.ed-fi.org/	1.664E+09	67666635	1500	1
Louis & Anne Green Family Foundation		2700 Date Palm Road		Boca Raton	FL	33432	United States	5613943714				286824	1149591	200	1
Deutsche Bank Americas Foundation		60 Wall St., NYC60-2312		New York City	NY	10005-2858	United States	(212) 250-0538	(212) 797-2255		https://www.db.com/usa/content/en	32001650	12083036	100	1
Global Water Foundation	Johan Kriek, Dir.	P.O. Box 3949		Sarasota	FL	34230-3949	United States			johan@globalwaterfoundation.org	http://www.globalwaterfoundation.or	2341			0
Refinements:															
Rivers and lakes, Water pollution, South Florida (region), Accepting Applications Only															

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[Boca Raton Museum of Art](#)

[Boys & Girls Clubs of Martin
County](#)

[Boys & Girls Clubs of Palm Beach
County](#)

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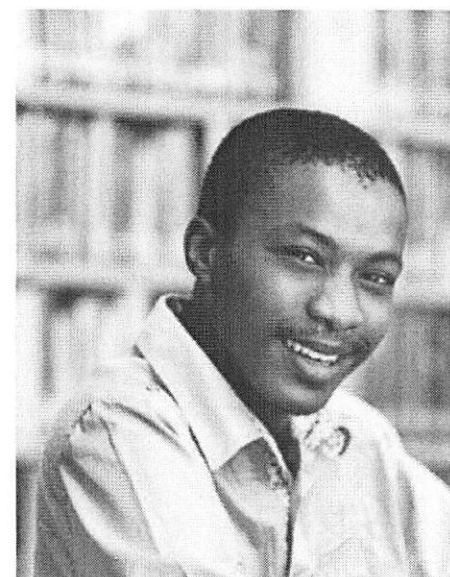
[Coalition for Independent Living
Options](#)

[CROS Ministries](#)

Our Grants

In our more than 45-year history, we have awarded \$150 million in grants and scholarships. Many grants are the result of a partnership of donors through Donor Advised Funds and collaborative grantmaking initiatives.

We pride ourselves on grantmaking that follows and often establishes best philanthropic practices.



Grants from the Community Foundation

Grants available from our Community Impact Funds, which are established by visionary philanthropists, are awarded through an open and competitive application process. Applicants must meet our eligibility requirements and submit a proposal in one of our three

Community Revitalization – Opening December 2018

Definition: Improvements in economic, physical infrastructure, health and social conditions for distressed neighborhoods.

Educational Attainment – Opening January 2020

Definition: Supplemental support for the academic achievement of students in pre-kindergarten