

FWEA Manasota Chapter

Vol 23 – July 2015

Message from the Steering Committee

By Manasota Chapter Chair
Lindsay Marten, EI, LEED AP, Stantec

Summer is here and the Manasota Chapter continues to blossom thanks to its members, leaders and sponsors! The June Manasota



Lindsay Marten introduces Glenn Richter, P.E. of Sarasota County and Guy Le Patourel, P.E. of Stantec before their presentation at the luncheon meeting held on June 9.

Luncheon was a great success! Thanks to both Glenn Richter, P.E. of Sarasota County and Guy Le Patourel, P.E. of Stantec Consulting for an excellent and informative presentation

on Building Resiliency by Relocation of the Siesta Key AWWTP. The Chapter appreciates everyone who came out to participate.

On the warm summer evening of July 16, local FWEA and AWWA members gathered on the patio of the Mandeville Beer Garden in downtown Sarasota for a joint summer social. It was a wonderful way for the local members of both societies to network and discuss upcoming events and activities for the year.

We are all looking forward to the upcoming luncheon on Thursday, August 13th, 2015 at the Sarasota County Operations Center (BOB Building). Tom Farkas, P.G. of Atkins will present City of Palmetto Reclaimed Water ASR Well System: A System of Firsts. August 7th is the last day to pre-register! Reserve your seat today by going to www.fwea.org or by contacting Linda Maudlin

lmaudlin@greeley-hansen.com.

In other news, Samantha Nehme has taken over as our Chapter Relations Chair, where she is now responsible for managing luncheon presentation speakers, preparing the quarterly newsletters, updating the Chapter's FWEA webpage, and maintaining the Facebook networking page. Thank you Samantha for taking on this integral role of our Steering Committee. Also, Laura Bamberger has now been added as our newest Member At Large.

Many thanks to our sponsors who keep our Chapter thriving. Sponsors get an advertisement in the quarterly newsletter, recognition at all of our events, and the opportunity to submit technical articles for the newsletter. Don't miss the opportunity to spotlight the projects that you all work so hard on! Contact Samantha Nehme to secure



Steering Committee Members, Chuck Hlavach, Kyle Kellogg, Samantha Nehme, Jeff Goodwin, Lindsay Marten, Mike Jankowski, and Mike Nixon at the Joint AWWA/FWEA Summer Social.

your article in the Sponsor spotlight section of the newsletter today.

Speaking of sponsors, we are currently accepting quarterly newsletter advertisements. The sponsorship form is included in this newsletter, so please feel free to contact Mike Jankowski or myself if interested in contributing to the Chapter.

Open your calendars and save the date for the FWEA Manasota Chapter's first ever Sporting

Continued from page 1

Clay Shoot Event at Sarasota Trap, Skeet & Clays on October 16. The registration form including event details can be found in this newsletter.

On behalf of the FWEA Manasota Chapter, we would like to thank all of the participants, volunteers, presenters, and sponsors for the success of our Chapter. Be on the lookout for more great opportunities and occasions to come throughout the remainder of the year.

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Calendar of Upcoming Events

JULY

- 10 FES Myakka Chapter Annual Awards Banquet, Bradenton
- 16 AWWA/FWEA Manasota Chapter Joint Summer Social, Sarasota
- 18-19 ASCE Florida Section Annual Conference, Miami Beach

AUGUST

- 13 FWEA Manasota Chapter Luncheon, Sarasota
- 18 FWEA Board of Directors Meeting, Orlando
- 20 ASCE Suncoast Chapter Luncheon, Sarasota
- 27 FWEA West Coast Chapter Luncheon, Tampa
- 30 FWEA West Coast Chapter Day with the Rays, St. Pete

SEPTEMBER

- 10 8th Annual SW Florida Water & Wastewater Expo, Ft. Myers
- 15 FES Myakka Chapter Picnic, Sarasota
- 17 ASCE Suncoast Chapter Luncheon, Sarasota

July

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August

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2	3	4	5	6	7	8
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30	31					

September

SUN	MON	TUE	WED	THU	FRI	SAT
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6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			



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Consultant Corner: A Shift in Perspective on Solving Florida's Water Woes

By Greg Perrine, Director of Utilities – Jones Edmunds & Associates, Inc.



As a joint conference of the Florida Water Environment Association (FWEA), the Florida Section of the American Water Works Association (AWWA), and the Florida Water and Pollution Control Operators Association (FWPCOA), FWRC provides a great forum for networking and discussing the

issues that Florida faces in addressing wastewater and water needs. This year's conference was particularly energizing and offered a positive perspective on meeting the growing water needs of Florida's communities as well as taking an integrated approach to water resources management as a whole.

New Economic Growth

With the economy slowly picking back up, we are seeing more capital improvement projects that focus on improving system efficiency and making advanced water treatment plant upgrades to address the need for increased capacity – a contrast to the emphasis on major distribution system repairs or eminent failures that occurred over the past few years of economic uncertainty. Instead of only focusing efforts on immediate repairs, local governments are beginning to gear up and expand their planning efforts to address the future water demands as Florida's population continues to increase.

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The Senate Bill 536 Study and Alternative Water Use

The use of alternative water will be crucial to meeting future water demands across Florida and has been made a priority by the Florida Department of Environmental Protection (FDEP). FDEP is working with the water management districts to conduct the comprehensive Senate Bill 536 study, which investigates the ability to expand reclaimed water, stormwater, and excess surface water efforts in the State. The growth in alternative water use will minimize increases in groundwater use. This growth will help minimize potable water use. Several local governments throughout Florida have systems that will need to be expanded and improved to integrate alternative water sources as water demands rise.

Optimizing systems has proven to be an effective means of addressing local needs. This coupled with a shift in perspective that recognizes all water sources – whether reclaimed, stormwater, or surface water – as “one water” has permitted us to consolidate efforts and continue to strategically plan for the future. For instance, Pinellas County is developing an Integrated Water Resources Management Plan (IWRMP) – one of the few programs of its type in Florida. Such plans can serve as a model for other Florida local governments in meeting their water challenges.

A Look at Pinellas County's Integrated Water Resources Management Approach

Pinellas County's overall goal is to maximize the benefits related to all water across the County's primary water-related objectives. The County owns and operates public utilities and programs – including water, wastewater, reclaimed water, stormwater, and solid waste – which are interrelated; the modification of one or more of these programs can affect the others and can impact the County's overarching goals. Historically, each of these programs has operated somewhat independently, due in part to nature of the funding sources and their associated constraints and the primary goals of each program. However, with new Total Maximum Daily Load (TMDL) requirements, National Pollutant Discharge Elimination System (NPDES) municipal separate storm

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sewer system (MS4) permit compliance modifications, and other changes to the state and federal regulatory environment, the County is developing a comprehensive, implementable, and fundable IWRMP that includes:

- Internal stakeholder involvement to define objectives
- Performance measures and alternatives
- Integrated modeling and decision support modeling
- Multiple water-resource-related disciplines including water supply, surface water, wastewater, and reclaimed water
- Preliminary cost analysis
- Preliminary recommendations for the integrated plan

Also, incorporated into the decision-making process is the Institute for **Sustainable Infrastructure's Envision™** rating system, which will support the County in selecting more sustainable solutions to meet its water needs.

Concluding Thoughts

The collaborative work of local, state, and federal entities plays a critical role as we move forward in developing integrated water solutions to meet the water demands of Florida's communities.

In addition to facilitating the funding and regulatory process, the inter-agency and inter-governmental partnerships that are developed help us pool our state-wide resources and prioritize project efforts – resulting in a process that is more efficient, more cost-effective, and more inclusive of the welfare of Florida's citizens.

The work being done to help expand state-wide alternative water use efforts helps to greatly supplement and offset potable water use while paving the way to a brighter, more sustainable future.



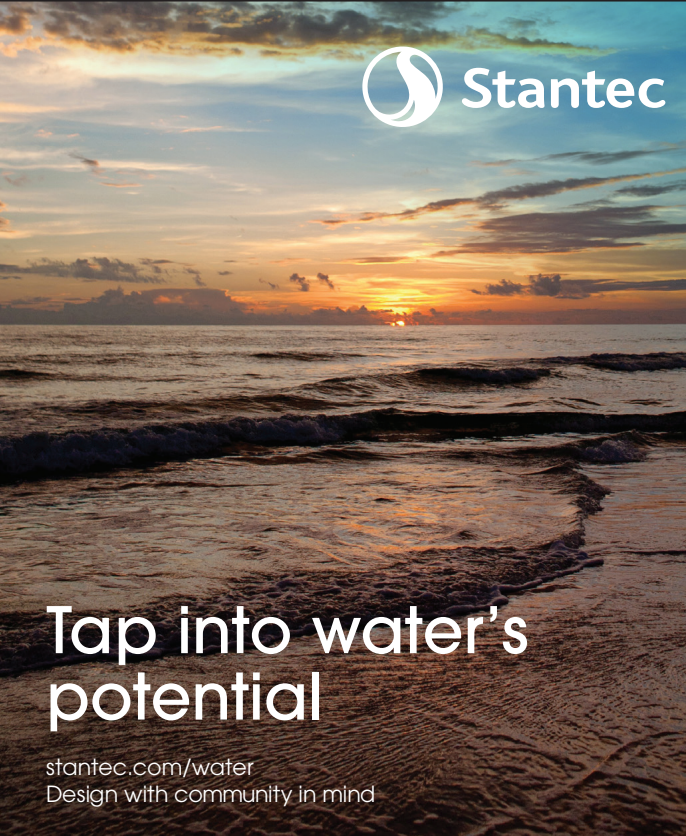

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FWEA Manasota Chapter Steering Committee Officers

<p>Chair Lindsay Marten: 941.225.6178</p> <p>Vice Chair Mike Knowles: 941.378.3579</p> <p>Treasurer/Membership Mike Jankowski: 813.281.7322</p> <p>Secretary Linda Maudlin: 941.378.3579</p>	<p>Chapter Relations Samantha Nehme: 941.921.4183</p> <p>Young Professionals and Outreach Coordinator Kyle Kellogg: 941.225.4823</p> <p>Communications Rachel Cantor: 813.286.2075</p> <p>Special Events Coordinator Mike Nixon: 941.379.3404</p>	<p>Director at Large Kristiana Dragash: 941.371.9832</p> <p>At-Large Chuck Hlavach: 941.915.4861 Jeff Goodwin: 941.792.8811 Julie Karleskint: 941.378.2862 Laura Bumberger: 941.371.9832</p> <p>Special Events Coordinator Mike Nixon: 941.379.3404</p>
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If you are interested in joining the Steering Committee, please contact us. We are currently seeking Utility Liaisons and additional At-Large Members.



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- ◆ Guest technical article submittal in newsletter
- ◆ Recognition on promotional material for luncheons

1/4 PAGE AD _____ \$400

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- ◆ Guest technical article submittal in newsletter
- ◆ Recognition on promotional material for luncheons

BUSINESS CARD AD _____ \$200

- ◆ Newsletter ad dimensions: Width = 3.5" Height = 2"
- ◆ Guest technical article submittal in newsletter
- ◆ Recognition on promotional material for luncheons

Joint Water For People Kayak Fundraiser with AWWA

Please indicate your contribution level for the 2016 joint Water For People Fundraiser with AWWA.

GOLD SPONSOR _____ \$750

- ◆ Water for People Kayak & Picnic - four event tickets
- ◆ Recognition on promotional material at event

SILVER SPONSOR _____ \$500

- ◆ Water for People Kayak & Picnic - two event tickets
- ◆ Recognition on promotional material at event

BRONZE SPONSOR _____ \$250

- ◆ Recognition on promotional material at event

OTHER _____ \$_____

- ◆ All contributions are greatly appreciated and will be recognized on promotional material at event

Name & Title	Signature
_____ Company	

Please make checks payable to FWEA. (Credit card payments are accepted - please email for instructions). Return form to: *Lindsay Marten, 5172 Station Way, Sarasota, FL 34233, lindsay.marten@stantec.com, 941-225-6178*. Invoices can be provided prior to payment if necessary. The newsletter ad should be in a JPEG/JPG or similar format at a minimum of 200 dpi and should be sent to Lindsay Marten at lindsay.marten@stantec.com.

THANK YOU FOR YOUR GENEROUS SUPPORT!



FWEA Manasota Chapter 1st Sporting Clay Shoot



Event Description:

50 Shot Tournament with Four Person Shoot-off Finale

The Manasota Chapter is excited to be putting on our 1st Sporting Clay Shoot at the Sarasota Trap, Skeet and Clays facility. Novice and expert shooters are all welcome. Teams of 4 will proceed between the shooting stations and each foursome could share a single shotgun so there's no need to get everyone a gun. Please bring your own gun if you have one but there are several guns available for rent at the facility. Ammo is available at the facility as well but if you bring your own, please make sure it's acceptable to the facility. The highest scoring four individuals from the tournament will enter a shootoff at the end of the team play. Trophies will be presented for top 3 teams and top 4 individuals after the 50/50 drawing. There will be a short presentation during lunch on Horizontal Directional Drilling and a live demonstration of pipe fusing for **PDH credit**. Please sign up to sponsor the event if you would like your company's name on the event T-shirts and station signs and your logo on the banner.

Date: **Friday, October 16, 2015**

(RSVP by October 5th)

Location: **Sarasota Trap, Skeet & Clays**

3445 Rustic Rd, Nokomis, FL 34275

www.sarasotagunclub.com



Presentation: Dave Hunniford of Underground Solutions
General Approach to Horizontal Directional Drilling
The following topics will be discussed for **PDH Credit**:



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Lessons Learned

Plus, LIVE demonstration of PVC fusing

Schedule:

11:00am	Registration Begins
12:00pm	Lunch Presentation
1:00pm	Safety Briefing
1:15pm	Shotgun Start
* Awards and 50/50 Raffle	



Registration Options	
<input type="checkbox"/>	Lunch Only \$10
<input type="checkbox"/>	Individual Entry \$60 <ul style="list-style-type: none"> • Shooting fee • Lunch & beverage • Event T-shirt
<input type="checkbox"/>	Foursome \$225 <ul style="list-style-type: none"> • Shooting fee (x4) • Lunch & beverage (x4) • Event T-shirt (x4)
<input type="checkbox"/>	Sponsors \$50 <ul style="list-style-type: none"> • Lunch & Beverage (x1) • Company logo on banner • Company name on station • <u>Company name on t-shirts</u>
Add-ons	
Items can be pre-purchased or purchased the day of event but some quantities are limited.	
QTY	Item
	Mulligans 1/\$4 OR 3/\$10
	Cart \$20 (Limited availability)
	12 Clay Warm-up \$10
	Ammo \$20 / 50 shots
	50/50 Raffle Ticket 1/\$4 OR 3/\$10
	Gun Rental \$25 (Limited availability)

Entry Form:

Company Name _____

Contact Name: _____

Contact Email/Phone: _____

Player Name(s) _____ **T-Shirt Size** _____



_____	_____	_____	_____
_____	_____	_____	_____

Register Online: <http://mms.fwea.org/Calendar/moreinfo.php?eventid=34248>

Make Checks Payable to: **FWEA**

Registration can be sent to: mknowles@greeley-hansen.com or Mike Knowles, Greeley and Hansen, 2601 Cattlemen Road, Ste. 100, Sarasota, FL 34232

Questions? Call Mike Knowles 904.460.3999 or email mknowles@greeley-hansen.com

City of Palmetto Reclaimed Water ASR Well System: A System of Firsts

by Tom Farkas, P.G., Atkins

Abstract

The City of Palmetto in the last 10 years has developed a citywide reclaimed water system that services both residential and commercial customers. The City has periodically discharged a portion of its annual reclaimed water supply to Terra Ceia Bay because of the lack of sufficient storage to capture excess reclaimed water supply during the wet season. The City looked at various alternatives to capture excess reclaimed water during wet season periods. Ultimately, the City selected Aquifer Storage and Recovery (ASR) as the technology for reducing the quantity of discharged reclaimed water supply to Terra Ceia Bay and enhancing the existing reuse system and operations.

The ASR well is designed and constructed to recharge, store and reuse between 1.5 and 2.4 million gallons per day of reclaimed water generated at the City's waste water treatment facility. Components of the new system include new vertical turbine pumps at the recharge pump station, a new ultraviolet treatment (UV) unit to serve as the primary disinfection system for the entire facility, the ASR well and three monitor wells, a network of piping, valves, small pumps and meters and an upgraded electrical system to operate the instruments and controls.

Tom Farkas, P.G.

Tom Farkas, P.G. is the Technical Services Manager for the Geosciences Program with Atkins and has 25 years' experience in water resource development/management and environmental consulting. He has extensive project

management, field-level, analytical, and modeling experience on a wide variety of projects and has worked with clients such as Tampa Bay Water, Suwannee River Water Management District, Pinellas County, the City of Sarasota and Sarasota County, City of Palmetto, and Peace River Manasota Water Supply. As project manager, Mr. Farkas has overseen over 30 projects which have included public groundwater supply planning, permitting, and development; reclaimed water aquifer storage and recovery (ASR) permitting; test well and monitor well design and construction; potable and surface water ASR feasibility studies; Florida Department of Environmental Protection (FDEP) underground injection control (UIC) test well construction and operational permitting for Class I and Class V wells; wastewater disposal through land application and deep well injection; and soil and groundwater contamination assessment/remediation at landfills, petroleum storage facilities, and commercial properties. Additionally, Mr. Farkas provided expert witness testimony during an administrative hearing for a Class V permit for FDEP which led to the issuance of the permit.



FWEA MANASOTA CHAPTER LUNCHEON MEETING

Sarasota County Operations Center (BOB Building)
Conference Room 1

1001 Sarasota Center Blvd., Sarasota, FL 34240
Registration - 11:30 • Lunch and Program - 12:15

Menu: 1) market salad, 2) spanish noodle paella,
3) pecan crusted pork tenderloin, 4) grilled summer
vegetables, 5) cookie platter

Please register by Friday, August 7th

Pre-registered Members: \$15 • Pre-registered Non-members: \$20 • Walk-in: \$25

You can register online at www.fwea.org or register by phone, fax, or e-mail to Linda Maudlin

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The Manasota Chapter is in search of Project Spotlight articles for future newsletter editions. Chapter sponsors are encouraged to submit an article highlighting a local project. Please contact Samantha Nehme at samantha.nehme@stantec.com or 941-921-4183 for more information.