

SOUTH MIDDLETON WASTE WATER TREATMENT PLANT TOUR April 13, 2018

The South Middleton Township Municipal Authority (SMTMA) Wastewater Treatment Plant provides sewer service for portions of South Middleton and Monroe Townships in Cumberland County, including the village of Boiling Springs. The original treatment works was constructed in 1977, the capacity was expanded and equipment updated in 1991, and the most recent upgrade was completed in 2016. The facility serves 3,268 residential, commercial, and industrial users.

The most recent upgrade, to bring the plant into compliance with the Chesapeake Bay regulations, involved:

- Construction of a new influent pump station, with coarse screening, fine screening and vortex grit removal
- Modification of the existing treatment units to Integrated Fixed-film Activated Sludge (IFAS), including anoxic and aerated zones
- Construction of new circular clarifiers
- A new filter building, with UV disinfection
- New aerobic digesters
- New solids handling facilities, with provisions for thickening, dewatering, sludge storage and liquid hauling
- New operations and lab facilities, with a garage and workshop overhaul

The plant is permitted for 1.5 MGD, and currently operates at an average of 0.71 MGD. The IFAS media is contained within the treatment units using a combination of cylindrical and flat plate screens, with redundant level controls and air scour for cleaning. The IFAS upgrade was intended to future-proof the facility by making it capable of treating to Enhanced Nutrient Removal levels. The target goal of 3.0 mg/L TN has been demonstrated to be possible through the addition of a supplemental carbon source (Micro-C). The solids processing facilities were intended to provide flexibility for the plant, and to incorporate mechanical thickening, reed beds, liquid sludge loading, and centrifuge dewatering. The plant handles on average, 12,000 gpd of waste sludge.



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President's Message

I will begin this message by saying that I am humbled and honored to be serving as the Central Section's president for 2018. I can still vividly remember stepping into my first board meeting back in 2006(ish). I was fresh out of school and very timid, but I showed up because I wanted to get involved in the industry and my boss at the time (Ed Ellinger) told me that CPWQA was a great place to do that. While I sat pretty quietly through that first meeting and others to come, I gradually became more involved by joining and participating in committees and attending events. Now, nearly 12 years later, I'm grateful that I attended that first meeting. I've met and had the opportunity to work with some of the brightest and most passionate professionals in our industry through my involvement with CPWQA. Because of those people, I also understand that I have some big shoes to fill in this new role. Lucky for me, we've been gaining some positive momentum over the last several years in making membership as user-friendly and beneficial as possible. My plan for 2018 is to continue to build on that momentum, with the primary goal of finalizing and launching our new website. This website is planned to include a members-only section to allow for electronic publication of our directory while also providing the option for electronic dues renewals and event registrations. I also hope that we can continue to build on the success of past events by providing educational plant tours, training opportunities, and some social/networking event opportunities in 2018.

In closing, I would like to thank those who felt that I was ready and asked me to begin this section leadership path a few years ago. I have enjoyed my time on the board and look forward to the coming year and continuing to work with all of you well into the future. I would also like to challenge all of our members to continue to show up and get involved - you'll have opportunities to continue to learn about our essential industry and meet some of the great people that work in it.

Happy 2018!



CPWQA is looking for Wastewater Treatment plants that would be interested in hosting a plant tour. Please contact Dave Seibert at Dseibert@DTMA.com for details if you would like to show off your plant.

CPWQA Scholarship

Just a reminder that CPWQA offers a scholarship. Please go to www.cpwqa.org for details and application. This scholarship is for a CPWQA member or immediate family (spouse or child) seeking higher education in an environmental field and is for a maximum of \$2,000 and a minimum of \$750 scholarship.

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2018 IMPORTANT DATES

April 13, 2018
SOUTH MIDDLETON WASTE WATER
TREATMENT PLANT TOUR

May 11, 2018
SPRING GROVE WASTE WATER
TREATMENT PLANT TOUR
Spring Grove, PA

June 15, 2018
ANNUAL AWARDS PICNIC AND
GOLF OUTING
Rich Valley Golf Course

August 3, 2018
GO WITH THE FLOW TOURNAMENT
Fairview Golf Course

September 14, 2018
SUPER PLANT TOUR & TRADE SHOW
Dover Waste Water Treatment Plant



**We are still in need of some
members email addresses.**

Please send your email to info@cpwqa.org
by June 1st. All members that do this will
have their name entered into a drawing for
a \$50 Visa Gift card.

Thank you and good luck!

Consultants:

*The newsletter is always looking for articles of interest
to our members. If you would like to submit an article
please send to dfox@hampdentownship.us. A short
article with pictures of plants that you have worked
with would make your clients proud!!*