



# The Clarifier

VOLUME FOURTEEN, ISSUE ONE

DOYLESTOWN, PA

DECEMBER 2017

## 12th Annual Water For People Gala



tion by Julie Kauffman, Business Development Manager for Water For People. All combined, the evening raised over \$8,000 for Water For People.

It is important to note that the success of this event came in large part from the sponsors, who teamed with Stone Hill Contracting, as well as numerous individuals who went above and beyond to make sure that the event accomplished its purpose of raising money to help people in developing countries to realize their goals of having clean water and sanitary conditions. Stone Hill would like to thank everyone for their continued support and make sure to mark your calendars for next years' event, November 1, 2018!

2017 sponsors included Trijay Systems, Inc., SUEZ, NA/Sherwood Logan & Associates, Cooper Electric/Power Systems, Grace Media Services, Inc., Keystone Engineering Group, McKernan Architects, Flynn Photography, Dutchland, Inc., MidAtlantic Storage Systems, Construction Risk Partners, J.T. Seeley & Company, North Penn Water Authority, Pyrz Water Supply Company, William Penn Inn and Bowen, Calhoun & Associates.

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### Special points of interest:

- CCMUA Contract Received
- Bryan Mott Receives DBIA Certification

## Stone Hill Receives Contract For Camden County Municipal Utilities Authority Combined Heat and Power Project

In late September, Stone Hill Contracting Co., Inc. executed a contract with Camden Bioenergy, LLC for the work for the Design-Build Installation of the new Camden County Municipal Utilities Authority (CCMUA) Combined Heat and Power (CHP) project in the City of Camden New Jersey. The project which has been in the works for about four years finally came to fruition after many modification upgrades.

This project will include the installation of two new 1900 KW Gas Fired Gensets that will be fueled by the Digester Gas from the CCMUA treatment plant. As the Clarifier goes to press, the project to construct the digesters at CCMUA is out for bid in a conventional Design-Bid-Build method. Stone Hill is happy to be working with Design Partner, GHD, Inc. as well as CCMUA Engineer DB&G Engineers, and the staff at the CMMUA treatment plant.

The project will most likely kick off its onsite work in Spring 2018, and will hopefully be started up (using natural gas) in the Spring of 2019. The digester gas will most likely not be available until late 2019 after the new digester construction is complete.

# Passaic Valley Water Commission Project

Work is progressing at the Passaic Valley Water Commission Standby Emergency Generator Project in Totowa, NJ. Demolition is continuing on the Carbon Building, and the old carbon tanks are all that remain. The carbon tanks are constructed of 16" reinforced concrete walls, and a 30" thick floor, so the demolition has been slow and steady.

Force Drilling is currently performing soil nailing on site in order to stabilize and reinforce a large slope. Approximately 74 soils nails, with lengths ranging from 65' to 100', are being drilled into the underlying bedrock. This process has presented some engineering challenges due to the poor quality of soil in the area of the slope that is being reinforced. With approximately 1-2 soil nails being completed each day, this process will continue into the winter months.

Subsurface exploration has been conducted via vacuum excavation, ground penetrating radar, and potholing within the areas where duct bank will be installed. The data collected will be gathered together into a report showing existing utilities in order to avoid any conflicts when the new duct bank and manholes are installed.

Looking ahead, Force Drilling will continue the soil nailing process. Upon completion of all of the drilling and grouting, a final shotcrete layer will cover the nails. The construction of the Mechanically Stabilized Earth (MSE) Wall will begin, which in combination with the Soil Nail wall, will form the retaining wall that will run behind the generator building that will house the 4 standby generators. Also, a new storm water drainage system will be installed to control drainage throughout the site and treatment plant property.



## Sandy Hook WWTP

Stone Hill Contracting is planning to remobilize and begin the installation of the surge system that was recently added to their scope of work. The surge system will consist of repurposing two existing clarifier tanks, adding new piping, new pumps and new coatings on the inside of the existing tanks.

The completion of the underground piping on the new surge system will give way to the remaining portions of the contract work which includes paving, fencing and site restoration. If all goes as planned, Stone Hill will complete this project by years end.



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## Bayshore R.S.A.

Stone Hill Contracting has now completed the next two aeration tanks (6 of 8) and are waiting for new sluice gates to arrive from Dave Heiner Associates so they can be installed and the tanks can be placed into operation. Stone Hill has finished all sections of the flood wall and VIP Construction completed the EFIS Coating.

With train 1 up and running, Stone Hill got the shutdown on blower building 2 so they could completely remove all of the existing blower piping and supports. New equipment pads for the new blowers, new HVAC equipment, and RTU cabinets were then installed. Stone Hill also installed all new supports and 90% of the new SS pipe, and as the Clarifier goes to press they are finishing up the new 2" concrete floor throughout the building. New louvers and dampers are being installed by Hays Sheet Metal. MBE Mark III Electric is taking care of the electrical needs for the project.



## AQUA Pennsylvania Hatboro Project

Work has been completed at the Hatboro well station for Aqua Pennsylvania. This is the second of two projects Stone Hill has completed that adds carbon filters to their process, at two local well stations.

The project included placing a concrete slab to support two Calgon Carbon filters, supplied by Aqua, interconnecting piping, controls and commissioning the system. TruLine Contracting installed the yard piping, and M&R Insulation installed the insulation.

As with the first Aqua carbon filter project in Chalfont, PA, electrical work was performed by Vietri Electric.



## OCUA Area-Wide Clarifier Rehabilitation

Things have wrapped up at the Ocean County Utilities Authority with a project including rehabilitating five clarifiers. The work included tank wall coatings, floor grout, and replacement of the mechanical components as well as some yard piping. Corrosion Technology Systems, Inc. supplied the Sauereisen coatings to Stone Hill who self performed the installation, which included a concrete surfacing product as well as an epoxy spray on application. While Stone Hill self performed various tasks, the coatings were one of the new ventures they have undertaken. Many thanks to Aulffo painting and CTS who enabled Stone Hill to successfully provide a quality product. In addition to the coatings, Stone Hill had to demolish the old mechanical mechanisms to make way for the new equipment provided by Envirodyne systems. The equipment was installed quickly and all five tanks were turned over to the Authority before winter. It is always a pleasure working with Ocean County Utilities Authority and Stone Hill looks forward to hopefully working with them again in the future.

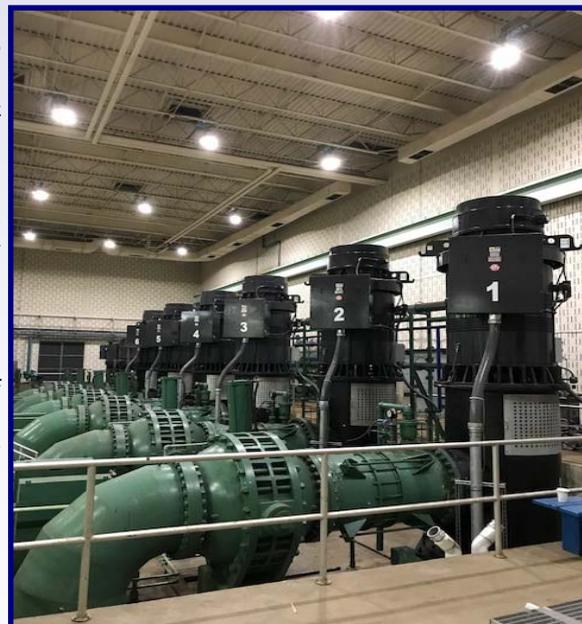


## Wanaque South Pump Station Upgrade

Wanaque South PS for NJDWSC now has all six 2000 hp dual stage pumps ready for supplying water to the Wanaque Reservoir. Actually prior to the DEP constraints of pumping water through July and August, some of the pumps had already been employed to service the reservoir. Once the pumping constraint was passed, the pumps and various starters required a vibration analysis and an eight hour duration run for final acceptance. At press time, 50% of the pumps had met that requirement. The other 50%, although they have already been through their start up procedures, cannot run thru the final acceptance due to on-site traveling screen issues. The Authority is doing what it can to remedy these screen issues.

Other than the above, the instrumentation and documentation have been completed by Keystone Engineering. Spark Electric completed the new LED overhead light installation and what a improvement! The light system is capable of lowering from the ceiling height down to floor level for ease in maintaining. Stone Hill has one additional programming change to make, which will be handled by Scott Testing. They will limit the start up of the pumps to two starts per hour. This will prevent possible damage to the 2000 hp motors.

Stone Hill has reached the substantial completion phase and once the last three pumps run through their final acceptance test the project will be deemed complete. Thanks to all those who participated in the upgrades to the Wanaque South Pumping Station, and the assistance and cooperation from the New Jersey District Water Supply Commission.



# Philadelphia Water Department Southeast WPCF Sedimentation Tank Improvements

On August 15th 2017, Stone Hill Contracting was the low bidder on the Final Sedimentation Tank Improvements at Southeast WPCP and the notice to proceed was issued on October 23rd. The project scope encompasses the removal and replacement of the flights in all twelve of the final settling tanks. At press time, Brentwood Industries, Stone Hill Contracting's material subcontractor for the new flights, successfully completed as built on the first tank allowing for the submittal process to start.

Before the installation of the new flights, the concrete tanks will be cleaned, resurfaced and painted. Stone Hill Contracting's painting subcontractor, Fine Group Inc., will perform this task, working in close unison with Sauereisen who is providing the resurfacing and painting material. With the preconstruction site visit completed, all parties are eager to start this new project with mobilization anticipated during the early part of March 2018.



## North Jersey District Water Supply Commission Basins 5 & 6

Stone Hill Contracting and their subcontractor, Jack Pears, have been working diligently to complete the demolition phase of the project. Jack Pears has handled the mechanical demolition portions including removing the existing paddle mixers and drives, tube settlers and supports, the sludge collection tractors, and piping demolition in Basins 5 & 6. Simultaneously, Stone Hill is working to complete concrete demolition which is comprised of modifying the baffle walls in the mix basin as well as removing 24 concrete beams that carried the existing tube settlers and supports.

As demolition draws to a close, Stone Hill and their partners are working to complete the final design for the new plate settlers, mixers and sludge collection equipment.

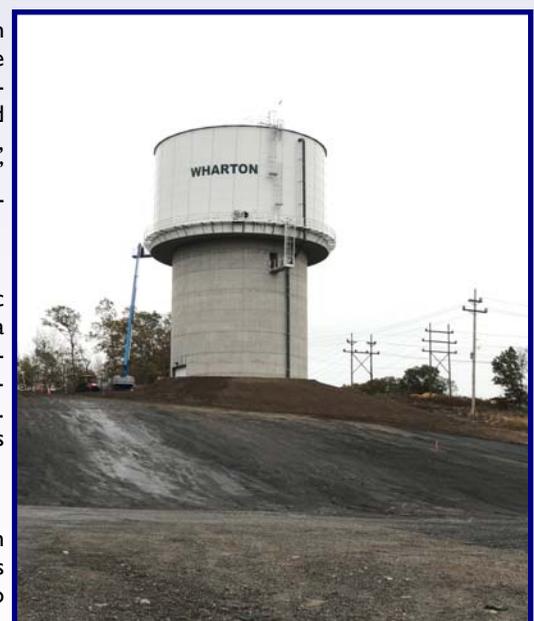


## Borough of Wharton One Million Gallon Elevated Tank

The 110' tall elevated water tank project for the Town of Wharton is coming to an end. MidAtlantic Storage Systems has completed the million gallon tank install above the 60' high concrete pedestal. Stone Hill has completed the interior piping and instrumentation install. CMU Masonry installed the control room masonry wall. Freehold Carpentry finished installing the interior control room drywall, ceiling and spackling, along with installing the hollow metal doors. Able Overhead Door Co installed the 12' overhead coiling door. MBE Mark III Electric has 95% of the electrical work completed, but needs to install the lighting protection atop the tank dome.

There is still some SCADA work that requires the assistance of MBE Mark III Electric and the towns integrator once they receive their SCADA equipment, which is not a large scale install. At the present, Mike Fitzpatrick Excavating has most of the earth-work complete, remaining items are seed and mulch and a small paved entrance. Following right behind is Statewide Fencing who will erect the perimeter fencing and gate. In the control room, Aulffo Painting is applying the selected room and pipe colors from the owner.

Stone Hill is completing the pipe and tank chlorination and soon will turn the system over to the owner so they can begin use of the million gallon storage facility. It has been a unique construction project for Stone Hill. One you don't get to build too often.



# Stony Brook Regional Sewer Authority

Stone Hill Contracting started work on the IT room renovation at Stony Brook Regional Sewer Authority in October. The work consists of removing an existing metal personnel door, gypsum partition wall and acoustical ceiling. Upon completion of the demolition, Stone Hill Contracting's HVAC subcontractor, Hays Sheet Metal, began placement of the new six ton split unit air conditioning system. Simultaneously, Stone Hill Contracting's electrical subcontractor, Travis Electric, proceeded with the new electric service for the air system along with new emergency lighting and outlets.

Eighteen Glass installed a new glass partition wall, allowing for the installation of the acoustical ceiling and painting to proceed without a hitch. With the static resistant flooring scheduled for the first week of November Stone Hill Contracting should be off site and on to the next project shortly thereafter.



## AQUA PA Stripping Towers

In mid-October, Stone Hill Contracting was contacted by AQUA PA about the potential of replacing the packing material in three (3) of their local well house stripping towers. The stripping towers are used for removal of volatile organic compounds from the water, by in essence misting the water over the packing and then blowing air in from the bottom of the units.

While AQUA was not required to replace the packing at this time, they opted to do so in an effort to be proactive. Working along with the staff at AQUA, as well as Lantec Products (supplier of replacement packing) Lewis Environmental (vacuum truck) and AAMIK Crane of Quakertown, PA, Stone Hills crew removed and replaced the packing in the three stripping towers at Chalfont Well #8, Flourtown Well Station and the North Hill Well Station. The overall work was completed in about two weeks.

Stone Hill thanks all those involved in this project, especially AQUA PA, in helping to make this a successful project.



## Bryan Mott Receives DBIA Certification

Bryan Mott has successfully completed the requirements for the nationally recognized Assoc. Designated Design-Build Professional™ certification (Assoc. DBIA™). The Design-Build Institute of America (DBIA) awarded designated status to Bryan upon his successful completion of coursework and formal examination in all aspects of design-build project delivery. By completing these requirements, successful candidates earn the right to display "Assoc. DBIA" after their names, identifying them to design-build end-users and the industry at large as professionals experienced in design-build project delivery. A minimum of 24 hours of continuing education credit every two years is required to maintain the credential.

Assoc. DBIA™ certification demonstrates a commitment to design-build done right. Individuals holding the Assoc. DBIA™ certification have mastered the best practices associated with the entire design-build process—from project procurement through post-award. Both A/E/C firms and public agencies train personnel from a variety of disciplines and departments in the best-practices developed by DBIA.

# Industry News

## Stone Hill Contracting Takes Part in DBIA Annual Conference

The week of November 6th was a busy one for the staff of Stone Hill Contracting, as a large number of their employees took part in the Design Build Institute of America (DBIA) Annual Conference and Exhibition at the Pennsylvania Convention Center in Philadelphia. Stone Hill was a big part of the overall conference as their Director of Development, Bob McIntyre was Co-Chair for the event, and Stone Hill was an exhibitor and sponsor of the event.

Nine employees took part in the education sessions as well as the exhibit hall. The four-day event broke attendance records for DBIA having over 2000 people in attendance. It was great to see familiar faces from vendors, design professionals, teaming partners and the like at the event as all attempted to learn more about integrated project delivery systems and how others overcome the potential pitfalls as well as how they use this method of procurement to truly provide the best of the best in project performance.

As Stone Hill's current backlog hovers around 50% design build, Stone Hill has been one of the leaders in the Mid-Atlantic region to promote integrated project delivery in their section. Stone Hill's Bob McIntyre is on the Board of the DBIA Liberty Northeast Region (PA, NJ, DE, NY), as well as on the board of the Tri-State Chapter (NJ, Eastern PA, DE), and was instrumental in starting the DBIA Liberty Northeast Region Annual Conference that is co-located with Pennsylvania Section of American Water Works Association (PAAWWA) each year. This year's Liberty Region Annual Conference will be held at Kalahari Resort in Mount Pocono, PA from May 9 to 11, 2018.



## Rettew Awarded Governors Award

Safety isn't just another item on a checklist at RETTEW; it's woven into their culture and everything they do. Which is why they've been selected as a winner of this year's Governor's Award for Safety Excellence, announced recently at the 2017 Pennsylvania Governor's Occupational Safety and Health Conference.

The judges for this prestigious award analyze safety standards such as workplace injuries and illnesses against industry averages, as well as safety program innovations and strategic policy development. Judging includes the award submission as well as an on-site visit and presentation.

RETTEW has renewed its focus on safety throughout the past five years, including:

- \* Earning a Pennsylvania Department of Labor certification for our Safety Committee, comprised of 22 employees from 11 different departments
- \* Instituting a Safety One-Call Number for immediate incident reporting and disposition
- \* Designing and implementing a Hazard Identification process, streamlined for easy adaptation
- \* Beginning every group meeting with a Safety Minute
- \* Reducing overall recordable injuries
- \* Reducing driving incidents.

Staff feedback was continually incorporated as each program component was developed, and employee engagement in the safety program skyrocketed. Employee involvement in the program has been the hallmark of its success.

"We are extremely honored to receive this award," said Luke Lazar, Director of Safety at RETTEW. "Every employee has made a concerted effort to focus on and improve our safety practices, and we're grateful the state has recognized RETTEW's commitment."

Acting Secretary of the Pennsylvania Department of Labor and Industry, W. Gerard Oleksiak, presented the award to Luke Lazar and Paul O'Donnell, Senior Health and Safety Consultant at RETTEW. A more formal presentation will be made in early December at a RETTEW office, and staff will celebrate together!

# Stone Hill Contracting and Friends Support Operation Christmas Child and Pennridge FISH

On Friday, November 3rd, Stone Hill Contracting hosted a packing party at their office for Operation Christmas Child and Pennridge FISH. Approximately 20 people from several companies stepped up to help provide gifts to needy children both locally and throughout the world.

Operation Christmas Child is a ministry of Samaritan's Purse, an organization who works throughout the world to reach people for Christ. Something so ordinary as a shoebox can accomplish the eternal when it is packed with toys, school supplies, hygiene items, and God's love. Powered by prayers, it can help lead children and families to faith in Christ, inspire pastors, plant and grow churches, and encourage disciples in some of the most unreached places in the world.



Pennridge FISH is a non-profit corporation and a volunteer service provider to those in need in the Pennridge School District. FISH maintains a food pantry and clothing outlet and also offers emergency financial assistance as a bridge to help clients in the Pennridge community when crises arise in their lives. This is not to be considered welfare, but rather one-time help until the client can establish a permanent solution to their financial needs. Clients must fill out an application and supply documentation indicating their residence in Pennridge and proving their need. FISH also offers school bags/school supplies in August, and Christmas help with food, toys and gifts to those in need.

Stone Hill and their friends packed over 300 boxes this year for Operation Christmas Child and 50 back packs for children whose families utilize the services of Pennridge FISH. You can be part of this great event next year. Boxes will be available at Stone Hill's office starting in October 2018. Start collecting your items now, or put a little money away each week to start saving up to assist with postage. A special thanks goes out all who helped to pack boxes and back packs and /or donated funds toward the cost of shipping. It was a great success and there are children both locally and throughout the world who will benefit greatly from the little bit of time and money that was put forth.

## Coming Together for "One Water"

Attendees at the Southeast Section PA AWWA/WWOAP Fall Conference learned about the "One Water" concept from a variety of perspectives. If you're not sure what it means, "One Water" is a holistic way of considering our drinking water, wastewater, and stormwater systems to maximize joint usage and minimize waste, and look at all water as one resource.

Over 130 industry professionals came together and were treated to more than a dozen presentations from regulators, authorities, and engineers. Service Awards were presented to Patti Kay Wisniewski (USEPA) and Dave Pyrz (Pyrz Water Supply Co.) for their longtime involvement in and support of our organizations. Students from Temple University's Engineers Without Borders shared their design and plans to build a new drinking water system for a small village in the town of Saccha, Peru, and received \$750 to support their efforts. Tony Bellitto (North Penn Water Authority) gave an update on the work and fundraising efforts of Water For People, and gratefully accepted a check for \$500.



A big thank you goes to the Premier Sponsor, Aqua PA, as well as the 21 vendors who attended and shared their expertise and knowledge during breaks throughout the day. They help keep costs down for the conference, and allow us to recognize the good work done by colleagues in the industry, as well as support organizations who do excellent work.

## Upcoming Water For People Events

**Winter 2018—Pittsburgh Penguins Raffle.** Win two tickets to the Penguins game on 2/15/18 and a free ride on the Zamboni for one. Tickets are \$20 EA. Please contact Rachael Beam for more information at [rachael.beam@amwater.com](mailto:rachael.beam@amwater.com)

**March 15, 2018—Beer Tasting,** Hitchhiker Brewery, 1500 S. Canal Street, Pittsburgh, PA. 6:00-8:00 PM. Tickets are \$35 EA. For more information, please contact Rachael Beam at [rachael.beam@amwater.com](mailto:rachael.beam@amwater.com)

**Keep up-to-date on Water For People events by following our new Facebook page [www.facebook.com/WaterForPeoplePA/](https://www.facebook.com/WaterForPeoplePA/)**

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**Stone Hill Contracting**



*"Committed to Excellence"*

Stone Hill Contracting is a regional contractor that provides valuable services by partnering with Owner's, Engineer's, Utilities, Municipalities and communities to improve the environment and our nation's infrastructure.

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**Watch for the next issue  
of the *Clarifier* coming  
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