Foundations

MWH CONSTRUCTORS
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ENR TOP 400 SOURCEBOOK

MWH CONSTRUCTORS

#2 Wastewater Treatment Plants
#4 Sewerage and Solid Waste
#195 Overall Contractor

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A FEW WORDS FROM BLAIR

As we reflect on the third quarter, I am pleased to share some of our performance and project highlights. Several great milestones have been reached so far in 2017. We have a record backlog and are heading into our fourth quarter strong. MWH Constructors has secured several new contracts, including the San Francisco Public Utilities Commission’s $939 million Southeast Water Pollution Control Plant Biosolids Digester Facilities Project and the Trinity River Authority of Texas’ $196 million Phase III-B Solids Management Improvement Project for the Central Regional Wastewater System – two of three Cambi projects in the United States.

With our momentum moving forward, let’s finish this year out strong. Project excellence is unquestionably one of the most important factors for project success, and we must always keep it top of mind. This starts with a robust safety plan and culture, and preconstruction/ECI excellence where preliminary design, budgeting, schedule and programming are established. Although our results are good, if we continue to focus on project excellence, I believe the results of the next quarter will be GREAT.

Thank you all for your hard work, dedication and passion that continues to make us a leader in the industry and a company dedicated to our people and clients.

See you on the jobsite!

Blair M. Lavoie, PE
President, MWH Constructors
Major Milestone Reached at Denver Water’s Reservoir Tank and Pump Station Replacement Project

The Hillcrest Reservoir Tank and Pump Station Replacement project team reached another major milestone as it nears completion of Tank 1 with the deck placement on September 16. This is one of three 15-million-gallon (mg) storage tanks being constructed at the facility. The deck of Tank 3 will be placed in November, and construction of Tank 2 will begin before the end of the year.

During the Tank 1 deck placement, MWH Constructors and Denver Water invited neighbors to the project site to see the progress being made. The team set up a safe viewing area and provided coffee and donuts. Several neighbors attended and were able to ask questions and share any comments or concerns they had about the project.

MWH Constructors is currently serving as the construction manager on this $100 million facility upgrade. It is a major capital investment aimed at providing reliable and efficient delivery of potable water to Denver Water customers.

The project consists of removing two conventionally reinforced concrete storage basins with a combined capacity of approximately 30 mg and replacing them with three new circular pre-stressed tendon-type concrete basins, which will have a combined capacity of 45 mg. It also includes replacement of the existing 115 million gallons per day (mgd) pump station with a new structure. The project is scheduled for completion in 2020.
MWH Constructors, in partnership with Webcor Builders, was awarded a $939 million contract by the San Francisco Public Utilities Commission (SFPUC) to serve as construction manager/general contractor (CM/GC) for the Southeast Water Pollution Control Plant Biosolids Digester Facilities Project (BDFP). The BDFP is part of the Sewer System Improvement Program (SSIP), a 20-year, multi-billion-dollar citywide investment to upgrade aging sewer systems that aims to ensure a reliable, sustainable and seismically safe sewer system into the future.

The Southeast Water Pollution Control Plant (SEP), built in 1952, is SFPUC’s largest wastewater treatment facility, treating 80 percent of San Francisco’s sewage and storm water flows. The BDFP is one of the first projects in the United States to use the Cambi Thermal Hydrolysis Process (CambiTHP™). The CambiTHP™ will enable the new facilities to produce higher quality biosolids, capture and treat odors more effectively, and maximize biogas utilization and energy recovery to produce heat, steam and energy.

We are currently performing preconstruction activities on site. Construction is expected to begin in summer 2018 with the facility becoming fully operational in summer 2025. Since the team will be working in a tight footprint, the project will be constructed in two parts to allow for continued use of the facilities. Part one includes the demolition and site preparation of the eastern portion of the SEP and existing asphalt plant, as well as construction of the new facilities on site. Part two involves the demolition of the Central Shops and western portion of the SEP, with final completion of the new Biosolids Digester Facility.

As the third largest municipal utility in California, SFPUC provides more than 2.6 million residential, commercial and industrial customers with high quality, efficient and reliable water services.
MWH Constructors Awarded $196 Million CAMBI Project in Texas

MWH Constructors was awarded a $196 million contract by the Trinity River Authority of Texas (TRA) to provide construction and startup/commissioning support for the Phase III-B Solids Management Improvement Project for the Central Regional Wastewater System (CRWS), located in west Dallas. Upgrades to this facility will allow for the replacement of the lime stabilization process, provide a significant reduction in the overall volume of biosolids produced and enhance diversification of end uses for the biosolids.

The CRWS plant began operations in 1959 as the first regional wastewater facility of its kind, serving the Texas cities of Irving, Grand Prairie and Farmers Branch, plus a portion of western Dallas. The system is now one of the largest in Texas and has expanded to serve approximately 1.2 million people. CRWS is capable of providing treatment for 162 mgd; the treatment process removes 99 percent of conventional pollutants from raw wastewater and can handle daily maximum flows of 335 mgd and a two-hour peak flow maximum of 405 mgd.

CRWS includes a treatment plant and more than 200 miles of collection system pipeline. The project aims to produce clean, clear effluent that goes to the Trinity River through enhanced biosolids handling and processing, predewatering and thickening, anaerobic digestion, thermal hydrolysis and leading-edge technology.

TRA’s Phase III-B Solids Management Improvement Project is only the third in the United States to install the Cambi Thermal Hydrolysis Process (CambiTHP™) at its wastewater treatment facility.

Construction at the facility is expected to begin in Fall 2017 with project completion expected by September 2021.

Slayden Constructors Awarded Contract by the City of Lebanon, Oregon

Slayden Constructors was awarded a $27 million construction manager/general contractor (CM/GC) Water Treatment Plant (WTP) project for the City of Lebanon. Preconstruction services for this project began in early spring of this year and official construction started in May. The project is slated for completion in December 2018.

“We are proud of our history of working with local communities, like Lebanon, to construct water facilities that meet the needs of its citizens, satisfy regulations and protect the environment,” said Jeff Tedder, senior project manager for Slayden. “The preconstruction process of working collaboratively with the City and Carollo to develop the final project has really streamlined the lead-up to construction. We look forward to continuing to build on the relationships developed through the project to collaboratively deliver this important infrastructure project to the community of Lebanon.”

The new WTP will replace the existing facility and have a capacity of 4.5 mgd, with a future capacity to be upgraded to 8 mgd. This project also includes a raw water intake facility on the South Santiam River, a raw water pumping station, and a membrane water treatment plant.
District 3 CMS Team Awarded Several Contracts

The District 3 (west region) Construction Management Services (CMS) group has made great progress in the third quarter of 2017. The group has been awarded several CMS and on-call service contracts, including the following projects:

1. **Puente Valley Operable Unit, Groundwater Treatment Plant**, Northrop Grumman Systems Corporation, CA, construction management and inspection, $35 million

2. **Regional Urban Water Augmentation Project (RUWAP)**, Marina Coast Water District (MCWD), CA, construction management, $21 million

3. **Recycled Water Distribution System Expansion Project Phase II**, El Toro Water District (ETWD), CA, construction management and inspection, $12 million

4. **Phase III Microfiltration Clearwell Rehabilitation Project**, West Basin Municipal Water District (WBMWD), CA, construction management, on-call

5. **On-Call Construction Management Support**, Coachella Valley Water District (CVWD), CA, construction management and inspection, on-call

6. **Central Ave. (Part A) Pipeline Project**, Monte Vista Water District (MVWD), CA, inspection, on-call

7. **Consultant Rotation List 2018-2019**, City of San Diego, CA, construction management, on-call

8. **On-Call Program Management Support**, Coachella Valley Water District (CVWD), CA, program management support, on-call
Southern Water held their annual Partnership Health, Safety and Wellbeing conference on September 19. The day was based on the Partnership strategy key themes of leadership, planning, communication and collaboration. The day comprised talks and interactive sessions on how we can all make a difference to health, safety and wellbeing.

As part of the Partnerships commitment to recognizing safety, performance awards were given for notable people and projects, with winners for each of the four categories, mirroring the four key Partnership strategy themes. We are pleased to announce that CMDP, a joint venture between MWH Treatment and Costain, won three of the awards, with Chris Hallam winning the Leadership Award, Damian Owen winning the Planning Award and the Knighton WSW project team winning the Collaboration Award. Massive congratulations to the teams!
MWH Treatment Supports WaterAid

MWH Treatment has been a huge supporter of WaterAid over the years, which is why they are excited to share some stories on how employees are helping raise awareness and money for WaterAid.

Adriana Reyes Cordoba, a process engineer, volunteered at Glastonbury music festival to help raise awareness for WaterAid. Adriana worked night shifts with the team maintaining the facilities at the festival. While volunteering, she gathered signatures to support WaterAid, lobbying the government to make clean water and sanitation policies a priority throughout the world. The team managed to gather a total of 35,453 signatures from festival goers. The campaign this year was especially focused on clean water and sanitation for school children. One in three children in the world do not have proper toiletry facilities at school. Even more shocking, one in ten children don’t have access to clean water. Adriana’s voluntary work helped raise awareness and will hopefully, help change some of those startling statistics.

Additionally, a group of MWH Treatment employees took part in the Kelda 10k run at Scammonden Reservoir. All money raised from the event will help WaterAid bring clean water to 130,000 people in Ethiopia. Yorkshire Water and Kelda (who co-sponsor the event) have committed to raising $1 million for projects in Ethiopia over five years – all funds and sponsorship raised from this event will go towards achieving this target. Well done to all those that took part!

MWH Treatment Receives International Quality Award

Severn Trent Water’s One Supply Chain (OSC), which MWH Treatment is a part of, has been recognized by CQI International as being among some of the highest performing quality organizations in the industry.

The organizers of the awards thanked Gary Baker of Severn Trent Water’s Capital Assurance & Technical Support Chief Engineer’s Office for his entry in the Quality Team of the Year Award category, “Thank you for your entry for the Quality Team of the Year award. The judges were very impressed with the quality of your submission and we would like to congratulate you on a notable entry!”

These awards are open to entries from all over the world and focus on recognizing a team of quality professionals who have contributed most to their organization.

“As a group we can be proud that the IA framework, that you have all worked so hard to develop, has been recognized by CQI,” said Gary Baker. “Considering the number of entries from all over the world for this category, it’s a great achievement for our group and thanks to everyone’s support in getting our entry together.”

This project allowed MWH Treatment to work in partnership with Mott MacDonald Bentley, Atkins, Jacobs, Costain, Laing O’Rourke, Nomenca and Amey, to provide contract design, build and operation services of water and wastewater treatment facilities. As a result, this enabled Severn Trent Water to safely provide high quality water and waste services to more than 4.2 million customers across the Midlands and mid-Wales.
Awards and Recognition

MWH Constructors Managers Receive ESGR Patriot Award

Kristian Benson, senior project manager, and David Campbell, rocky mountain regional manager, were honored to receive the Employer Support of the Guard and Reserve (ESGR) Patriot Award. The Patriot Award serves to reflect the efforts made to support citizen warriors through a wide-range of measures including flexible schedules, time off prior to and after deployment, caring for families and granting leaves of absence if needed.

The Department of Defense agency encourages guardsmen and reservists to nominate employers and supervisors for support of employees serving in the Guard and Reserve. Lieutenant Garhett Jurgens, who is the project engineer for an industrial project in Denver, was called to active duty for the second time. Garhett nominated Kristian and David for this award.

In nominating Kristian and David, Garhett said “These two gentlemen and MWH Constructors have been absolutely remarkable in their support.”

We are honored to have one of our own serving our country, and proud of the support Kristian and David have given to him.

“I am greatly honored to receive this award,” said Kristian Benson. “Many thanks to Garhett for his work making this award happen. Garhett has a wonderful career and exciting life ahead of him at MWH Constructors; we look forward to his safe return.”

Community Outreach

Severn Trent: Heanor Gate Science College Community Project

Having the chance to help the local community is a benefit of working for MWH Treatment, and we had a great example come out of our Severn Trent region. A few volunteers got together to help build an external structure and tidy up the outside of the classrooms for Heanor Gate Science College.

The project helped to develop and build an outside classroom space, transforming the aging exterior into something enticing and engaging for the students to enjoy lessons away from their desks. With a handful of volunteers from around the company, they prepped the work area for a significant overhaul of the outside space.

Stone-filled gabions formed the base for a wooden seating area, while the group replaced and landscaped the grassy area artificial turf. Additionally, some of the outside metal containers were clad and covered, with inspirational words attached to them. The project started on August 14 and was completed a couple weeks later in time for the new school year.

Regional Director Steve Kennedy said, “MWH Treatment and Severn Trent were delighted to help with this fantastic project at the Heanor Gate Science College. Developing a new learning space for such a progressive school was a perfect use of our volunteers’ time and they were more than happy to assist. Thank you to everyone who volunteered and the school for being such wonderful people to work with. We hope the students enjoy their new outdoor classroom.”
Open House Held to Celebrate Project Completion in Edwards, CO

On Tuesday Sept. 26, the Eagle River Water and Sanitation District, MWH Constructors project team, and Edwards’ community members celebrated the completion of the $22 million Edwards Solids Handling Improvements Project in Colorado. An open house was hosted at the completed facility to display the new upgrades and highlight the distinctive landscaping.

MWH Constructors served as the general contractor, self-performing a significant amount of work on this complex wastewater retro-fit project, including all process mechanical work. The project team had to contend with tight schedules, working at an operating facility, weather and other factors, including the site’s rocky ground.

The project was successfully completed on time and on budget.

Service Spotlight

MWH Constructors Expands Commercial Management Department to the United States

MWH Constructors has long been committed to delivering operational excellence for our clients throughout the world, including the United States and the United Kingdom. In 2017, MWH Constructors made another long-term investment in this commitment by expanding its efforts in the United States to include a commercial management team supporting our at-risk projects. Following the framework set out by our UK construction arm, MWH Treatment, the North American commercial management team will proactively monitor the financial, schedule and contractual status of projects. MWH Constructors recently hired a team of commercial managers who are assigned to select projects.

The commercial management team will develop individualized support to best meet the needs of their projects. Working alongside project managers and project controls personnel, commercial managers will be integrated with project teams starting at project kick-off meetings and development of the management administration plan, and will continue to support the projects through the close-out process. Serving as onsite prime and subcontract experts, our commercial managers will ensure that all requisite notices are delivered in a manner that advance the goals of the project and address claims from subcontractors/suppliers promptly and proactively. Commercial managers will assist in delivering their projects without unnecessary delays by confirming schedule updates, reviewing change orders for appropriate commercial language, and monitoring overall project progress. Our commercial management team will also assist in change management, development of a risk register and log maintenance, and assessment of extensions of time requests. Each month, our commercial managers will support our project managers in their compilation and reporting of PM Dashboards.

Commercial managers, by definition, possess strong commercial awareness, recognizing the legal, business and practical considerations that should go into daily decisions at the project level. This position also requires client liaison skills, project management know-how and leadership skills. Commercial managers will also assist in ongoing risk management efforts by, first, recognizing risks posed to MWH Constructors and, then, developing measures to help manage risks as they arise in real time.

MWH Constructors recognizes that successful projects fully integrate safety, design, estimating, quality and risk management.
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