



**February 19-25, 2023**

# National Engineers Week



**INSIDE:**

- Expansion of Bustamante Plant underway
- Prioritizing wastewater pipelines
- Reservoir projects advance

**Photos:**

Construction of the expansion at the Bustamante Wastewater Treatment Plant



# EXPANSION OF BUSTAMANTE PLANT UNDERWAY

By El Paso Water



Construction of the expansion at the Bustamante Plant is expected to be completed by 2026.

If you shower, wash your hands or flush in East El Paso, chances are the wastewater travels through miles of underground pipes to the Roberto Bustamante Wastewater Treatment Plant, which can treat up to 39 million gallons per day.

“We are at a point in time in which the plant is very near capacity in the amount of wastewater it takes in,” said David Ornelas, Wastewater Systems Division Manager. “When a plant reaches 75% of its capacity, the Texas Commission on Environmental Quality mandates a plan for expansion.”

Upgrading and expanding the Bustamante plant will improve the wastewater treatment processes, reduce odors and increase the plant’s capacity, extending its lifespan by 30 years.

The costs to perform the upgrades and expansion of the Bustamante Plant are estimated at \$730 million over five years, making it one of the largest capital improvement projects ever undertaken by the utility.

## Headworks improvements and facility upgrades

The Bustamante Plant, located along the Rio Grande in El Paso’s Mission Valley, opened in 1991. It treats wastewater and returns reclaimed water to the Riverside Canal. Much of the reclaimed water helps with downstream irrigation needs and sustains the Rio Bosque Wetlands Park and its habitat.

The treatment process begins when wastewater arrives at the headworks of the Bustamante Plant. Now under construction, the headworks improvements are crucial for odor control and maintaining a stable flow of wastewater.

“Wastewater flows have not increased dramatically in the last 10 years because of conservation, but waste that gets sent down the drains has

continued to increase,” Ornelas said. The increase is attributed to the growing population of the city’s East Side.

The expansion project will allow for the treatment of an additional 12 million gallons of wastewater per day. Upgraded aeration basins will remove more contaminants to produce higher quality reclaimed water. Additional primary and secondary clarifiers will be installed, which help polish the water after it is biologically treated.

The headworks improvements and expansion of the plant are expected to be completed by 2025 and 2026, respectively.

## Future benefits

Expanding the Bustamante Plant will not only provide reliable wastewater services to a growing community but will contribute to a sustainable water future for the city.

“The Bustamante Plant will provide source water to the Advanced Water Purification Facility that will be built next door,” Ornelas said.

The Advanced Water Purification Facility will take in treated wastewater from the Bustamante Plant and purify it with an additional multistep treatment process. The purified water will be sent directly into the distribution system, producing up to 10 million gallons of fresh drinking water per day. When river water is in very short supply, the facility will help meet the demands of homes and businesses.

“This plant expansion will help accommodate population growth and deliver on both water and wastewater needs in our area through 2050,” Ornelas said.

# EPWATER PRIORITIZES WASTEWATER PIPELINES

By El Paso Water

The Miranda Wastewater Relief Line does not replace the existing 12-inch line but instead will give wastewater flows another route to their destination.



**E**l Paso Water is investing millions to ensure El Paso’s wastewater system keeps functioning as it should. Five wastewater pipeline projects are under construction across the city. Together, they total more than \$15 million worth of investment in this vital infrastructure.

Though some projects are focused on preparing for future growth, some will be replacements to ensure the existing wastewater system remains reliable for years to come. The average age of El Paso’s wastewater pipes is 45 years, and the utility sees the need to push that number down.

## West El Paso

One of those projects is the Miranda Wastewater Relief Line Project. This \$4 million project will serve more than 5,600 homes, businesses and schools on the West Side near Franklin High School. For years, they have relied on one wastewater line to carry flows down the mountain to lift stations in the Upper Valley.

“All that wastewater currently goes into an existing 12-inch line that goes under the freeway” said Felipe Lopez, El Paso Water’s Chief Operations Officer. “That’s where the bottleneck starts.”

Crews are installing a new 18-inch wastewater line along Graphite Drive, Mace Street and Conley Road. It won’t replace the existing 12-inch line which has been in service since the 1970s; instead, it will give wastewater flows another route to their destination.

“This new 18-inch diameter sewer line is going to take about 2.8 million gallons

of wastewater a day and transfer it to the Sunland Lift Station, bypassing Doniphan,” Lopez said. “So, it’s going to relieve a lot of congestion.”

If EPWater didn’t complete this project?

“There’s a potential of the sewer backing up so high that it will overflow onto the streets,” Lopez said. “We’re trying to prevent that.”

Work is scheduled to be completed in summer 2023.

## Lower Valley

Work is underway on the Alameda Avenue/Roseway Drive Wastewater Main Replacement. Crews are replacing about a mile of obsolete concrete wastewater mains with 8-inch and 12-inch PVC pipe. The existing main was constructed in 1963.

“This is a case in which existing infrastructure outlived its useful life,” Lopez said. “By proactively replacing the aging wastewater line, we minimize the likelihood of unexpected disruption in service.”

Construction began in summer 2022 and is scheduled to be complete next month.

Much of the work on the \$4 million project is being completed at night to minimize traffic interruptions along Alameda Avenue.

Both projects include public outreach to ensure people in the area are aware of the projects’ progress and construction impacts.

Other projects under construction include the Doniphan Collector, which will connect the Village of Vinton’s sewer system to the Bosque Lift Station and the replacement of an existing wastewater line along Bird Avenue.



Crews install a new 18-inch wastewater line along Graphite Drive, Mace Street and Conley Road.

# EPISD 2016 BOND PROGRAM MANAGEMENT SERVICES

HUITT-ZOLLARS, ISABEL VASQUEZ, PE.

In November 2016, EPISD was approved for a \$668M Bond. The Bond includes 17 Major projects which include new facilities, additions and renovations. In 2017, EPISD selected the Jacobs/Huitt-Zollars team to manage the bond program. This was one of the largest Bonds that the EPISD has ever had. The program included two elementary school consolidations and five elementary and middle school consolidations to resolve enrollment issues in those areas. All of the projects included improvements to bring the schools up to a 21st Century learning environment. Five of the high schools received new performing/fine arts centers including theaters, band, orchestra, choir, and dance rooms, and three of the PK8 schools received fine arts additions. Eight of the high schools and three of the PK8 schools received new gyms, and/or fields (houses, and/or tennis courts, baseball, softball). Four of the schools received new libraries, and two of the schools received new cafeterias.

Huitt-Zollars was a sub-consultant to Jacobs on this project. Huitt-Zollars had to fill 13 positions on this project to serve as design managers, project and assistant project managers, design reviewers, outreach personnel, technical support and office admin & management. HZ also assisted with project controls.

Huitt-Zollars provided a Design Manager to ensure that designs were in conformance with EPISD design standards and expectations. Project managers and assistant project managers were provided, to ensure projects met the established goals for budgets, schedules, quality, scope, and safety. A design review team was provided which included Architects and Civil, Structural, Mechanical, Electrical, and Plumbing Engineers, to assess the status and quality of design packages at various stages of design. An Outreach Manager and an Outreach Communications Specialist was provided to perform outreach coordination with EPISD and the community, including coordination with Authorities having jurisdiction to facilitate expedited reviews; to engage with the local Architecture and Contracting communities to raise awareness of the projects and encourage participation; and assist the project management team with coordination activities with EPISD and the community. Huitt-Zollars also provided a Technical Support Specialist who assisted the Project Management Team in the coordination of general project issues, taking meeting minutes, filing documents, documenting field reports, and other tasks assigned by the Program Manager. In addition, Huitt-Zollars provided an Office Manager/Administrator who supported the Project Management Team. Huitt-Zollars also assisted with the PMCS system to manage Project Controls.



Coach Archie Duran ES –Multipurpose Room Stage Area, Main Hallway, Learning Stairs



Crockett ES



Austin High School Courtyard Renovation



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# EPWATER KEEPS WATER FLOWING DURING COMPLEX REHABILITATION

By El Paso Water



Located near Hornedo Middle School, the High Chaparral Reservoir was ready for rehabilitation after more than three decades in use.

**E**l Paso Water is investing more than \$3 million in ensuring a linchpin of the Westside water system continues delivering drinking water to residents in the foothills of the Franklin Mountains.

Tucked into an arroyo near Hornedo Middle School, the High Chaparral Reservoir was built in the early 1990s. It was ready for rehabilitation after more than three decades in use. Repairs include replacing the tank's steel roof and floor and recoating the walls of the tank.

But this reservoir does more than just store water, explained Veronica Galindo, Water Production Manager for EPWater.

"High Chaparral also has five pumps that take water from the storage tank and pump it to the Thunderbird Tank up the mountain. So those pumps are providing service to all the residents in those higher elevations," she said.

Moving millions of gallons of drinking water up into the western slopes of the Franklin Mountains is challenging enough. It becomes even more challenging when this key piece of drinking water infrastructure must be taken offline for rehabilitation work.

Taking the High Chaparral tank offline meant finding a new way to supply water to customers further up in elevation. Without any water in the tank during the rehabilitation, the

pumps at High Chaparral are instead pushing water from the rest of the system up the mountain to serve customers.

It's a complex change in a finely-tuned system that isn't as simple as flipping a switch.

"We had to make sure the customers in the service area above the tank would still have adequate water supply and adequate water pressure," Galindo said.

Once it was clear the solution could supply enough water with sufficient pressure, work began on the rehabilitation project.

But gravity isn't the only force making this project challenging; so is time. EPWater is focused on bringing the tank's 3.5 million gallons of storage capacity back online before water use increases during the hot summer months. The project is scheduled for completion in May, according to Galindo.

Galindo adds, while there are many unique challenges associated with this project, they don't detract from the value and importance of proactively completing rehabilitation projects. "You save money on your rehab and maintenance and that's ultimately passed on to the ratepayers," Galindo said. "The more preventative we can be, the less we interrupt customers."

# REMAINING QUICK, AGILE AND NIMBLE AT 11 AND 27 YEARS ►

By Arianna B. Olague

Since 2012, Bernardino “Berna” Olague, P.E., PMP has been leading LOI ENGINEERS as principal engineer and now as its president and CEO. Berna was first licensed in 1996 to practice as a professional engineer by the New Mexico Board of Licensure for Professional Engineers and the Texas Board of Professional Engineers. and has been out of school since 1991, and how long he has been practicing engineering, respectively. LOI ENGINEERS offers local expertise and consistently delivers world-class service to clients in the public and private sector. Danny R. Anderson, P.E., Senior Geotechnical Engineer at LOI and past recipient of the Engineer of the Year award offers his extensive experience that has been the accumulation of over five decades practicing engineering to his peers.

It is rather interesting to get asked by new clients about where LOI’s headquarters are located. Our president and CEO, Bernardino “Berna” Olague, P.E. proudly replies with a soft smile, “you are sitting in the conference of our headquarters.”

Berna currently serves as immediate past president of the University of Texas at El Paso Alumni Association. He has been an active board member of the UTEP Alumni Association for nearly 10 years. During his tenure at the UTEP Alumni Association board, Berna helped raised funds for the Alumni’s scholarship endowment. Berna is very grateful to his alma mater, UTEP, for the education and support. LOI proudly employs 17 UTEP alums, as well as graduates from NMSU, Texas A&M, and Georgia Tech.

Berna is also serving in the Board of Directors of the American Council of Engineering Companies – El Paso Chapter and the Society of American Military Engineers – El Paso Chapter.

From local clients, such as EPWater, to global top firms such as Cardinal Health, Inc., we strive to be responsive and fully engaged in addressing our clients’ needs. Our workforce, comprised of engineers, scientists, technicians and administrative staff, shares the vision of becoming The Geotechnical Firm in the southwest.

SINCE 2015 when LOI ENGINEERS went through a rebranding process, we started to experience a robust and sustained growth. For a small engineering firm, with 45 employees in El Paso and 15 employees in northeastern New Mexico, LOI continues to pledge to keep being a reliable and professional engineering firm.

We invest in training our personnel and in maintaining and acquiring equipment so that we can confidently compete with the national and international firms that operate in El Paso, and ultimately serving our clients’ needs.



Bernardino “Berna” Olague, P.E. (Photo Courtesy of UTEP)

MAKING NATIONAL HEADLINES in 2017, LOI ENGINEERS and another locally-owned company, were ranked among the 100 fastest-growing, inner-city businesses in the United States. The annual Inner City 100 list for 2017 was released on October 3, 2017 by the Initiative for a Competitive Inner City, based in Massachusetts, and Fortune magazine.

FOLLOWING the peak of the COVID-19 pandemic, LOI implemented protocols that enabled us to experience growth and increase our bench-depth. We currently employ four licensed professional engineers (Texas), and one licensed professional engineer in our New Mexico office.

WE BELIEVE IN SUPPORTING OUR COMMUNITY and a few non-for-profit organizations, such as the Child Crisis Center of El Paso. We participate by volunteering and through financial support.

“I firmly believe that networking, paying it forward, giving back to our alma mater, and participating in our technical and professional associations, is instrumental to start working toward a life of legacy,” Berna said after I asked him what his message was for the up-and-coming young engineering professionals.

Bernardino Olague, P.E. is humbled and honored to be named the 2023 Engineer of the Year.



One of our drilling rigs at EPWater’s Hickerson WWTP (February 2023) site.



Presenting a Check to the late Dr. Diana Natalicio in 2017 (Photo Courtesy of UTEP)

# CONSOR CONGRATULATES

## YOUNG ENGINEER OF THE YEAR

### ELEAZAR NAVAR, P.E.

Conсор is pleased to celebrate Eleazar Navar's selection as Young Engineer of the Year. A 2016 graduate of the University of Texas at El Paso with a degree in Civil Engineering, Eleazar is a member of TSPE, NACE/AMPP, and CMAA.

"The thing I enjoy most about my job is improving the lives of thousands of people by helping provide critical services such as wastewater service, potable water, and connecting communities through roads, bridges and other transportation infrastructure," Eleazar said. "I also enjoy working with all types of people, engineers, designers, and construction workers to achieve the same goal."

Eleazar's favorite projects at Conсор include his work for El Paso Water on potable water line installation, wastewater infrastructure, and potable water reservoir rehabilitation and new construction.

"Water is an essential part of everyone's life, and I have a huge responsibility to deliver and complete critical projects," Eleazar said. "I am honored and happy to see the clients trusting me on important projects for our community."

When he's not at work, Eleazar enjoys spending time with his family and friends and going to the movies. He also enjoys seeing the results of his work in the field.

"I love seeing projects a year or more after completed and telling my friends and family that I was part of that project. It's great to see the results after all the hard work," he said. "I always give 150 percent on each project and try to provide exceptional customer service regardless of the type or size of the project."

With more than 50 employees in El Paso, Conсор is a North American water and transportation infrastructure consulting firm offering planning, engineering design, structural assessment, and construction services. Conсор's diverse team of experts live and work alongside clients, providing thoughtful solutions to positively impact their communities from the inside out.

The product of over a dozen small regional businesses with roots back to 1980, Conсор maintains the longstanding relationships their team members and client partners have built over decades of work together. This history of collaboration allows them to draw on firsthand experience and knowledge to take on their clients' every need, from enhancing day-to-day operations to solving the most complex infrastructure challenges.

People choose Conсор because they know they will get a better experience — and be better for the experience — whether they're a teammate, a client, or a partner.



## conсор

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## SUMMER 2024

**MORE INFORMATION TO COME**



Desert Mountain Chapter

### Texas AWWA

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## 20<sup>th</sup> Annual 2023 Golf Tournament April 28, 2023



The TAWWA Desert Mountain Chapter invites you to come and join us in support of Scholarships, local STEAM Initiatives and Water for People



Special thanks to the 2022 Title Sponsor **LOI Engineers** for their support to the local engineering community and their dedication to the promotion of water and wastewater knowledge and practices in the El Paso region.



# TSPE

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## TSPE Value Proposition — Survey —

Thank you for taking a few minutes to take this brief survey - your input is important to us.



*Scan QR code to access the survey!*



# BERNARDINO OLAGUE, P.E. NAMED 2023 ENGINEER OF THE YEAR



**B**ernardino Olague is TSPE El Paso Chapter's 2023 Engineer of the Year. Berna obtained his bachelor of science in civil engineering from the University of Texas at El Paso in 1991. After graduating from UTEP, Mr. Olague joined the environmental department of Western Refining Co. (now Marathon Petroleum). Within a year, Mr. Olague moved to Sunbelt Laboratories, where he worked for two years as staff engineer, working in both Sunbelt's construction materials and geotechnical engineering projects. From 1994 through 1998, Mr. Olague worked at Raba-Kistner Consultants, where he started as staff engineer and moved up as manager of geotechnical engineering services department. In 1996, Mr. Olague became a licensed professional engineer in New Mexico and Texas. The landfill design experience he gained at Raba-Kistner earned him the opportunity in 1998 to join the Border Environment Cooperation Commission (now the North American Development Bank) as regional project manager and lead engineer for the Commission's municipal solid waste projects. In the same year, Mr. Olague was named TSPE's Young Engineer of the Year. Two years later, Mr. Olague chaired the Host Committee of ASCE Texas Section 2000 Fall Convention, which took place in El Paso. In the same year, Mr. Olague moved back to the private sector for a 4-year run as CDM's (now CDM-Smith) office leader in El Paso and in 2000 he also obtained his professional engineer license in Arizona. At CDM, Mr. Olague also served as project manager for various task orders associated with EPWater's Robertson/Umbenhauer surface water treatment plant. In May 2001, Mr. Olague completed and successfully defended his thesis work titled "pull-out capacity of helical anchors in cohesionless soils", that earned him his master's degree of science in civil engineering from UTEP. It was not too long into 2004 before Mr. Olague was invited to join the United States Section of the International Boundary and Water Commission (USIBWC) as principal engineer. As principal engineer of the USIBWC, Mr. Olague served as the chief source of technical and policy advice to the United States Section Commissioner concerning the agency's project management and environmental

management matters. Mr. Olague also served as Treaty Officer responsible for guiding, directing and controlling environmental and project management activities concerning Mexico. In 2005, Raba-Kistner Consultants Mr. Olague vice president for their El Paso office. In 2006, Mr. Olague served as a panelist at ASCE-El Paso's Geotechnical Roundtable, alongside Mr. Jaime Rojas, P.E., Mr. Mark Breitnauer, P.E., and Mr. Danny R. Anderson, P.E. Mr. Olague left the corporate world in 2009, when he decided to start his own engineering practice. As Mr. Olague grew his company, AT Analytica, he crossed paths with Gerry Licon, and in 2012, they agreed to establish a buy-sell agreement to acquire LEC Engineering, Inc. Today, after 11 years in the making, LOI ENGINEERS now employs 45 staff in El Paso and 15 staff in Clovis, New Mexico. Mr. Olague is a founding member and co-author of ASCE's Comprehensive Transboundary International Water Quality Agreement (ASCE 33-01). In 2017, Mr. Olague became a Project Management Professional. Mr. Olague is also the immediate past president of the UTEP Alumni Association. Mr. Olague chaired and co-chaired the Alumni Association's golf committee, which raised over \$350,000 during his tenure. In early 2001, six months after it was created, Mr. Olague joined the UTEP Alumni Academy of Civil Engineers, and later he became its president for three consecutive years. This was the first alumni academy at UTEP, which established a professorship at UTEP's civil engineering department. In addition, Mr. Olague has chaired and co-chaired the golf committees of the American Council of Engineering Companies-El Paso Chapter and the San Jose Brotherhood. Further, Mr. Olague orchestrated the creation of two UTEP scholarship endowment funds, one for ACEC-El Paso and another one for the Society of American Military Engineers (SAME)-El Paso Chapter. He has also volunteered with TSPE and MAES's Mathcounts and in 2018 he volunteered at the Seventh Annual Achievers Forum. Mr. Olague is strong supporter of UTEP's Athletics Department, the Child Crisis Center of El Paso, the Ronald McDonald House Charities of El Paso, and the Opportunity Center for the Homeless in El Paso.

# ELEAZAR NAVAR, P.E. NAMED 2023 YOUNG ENGINEER OF THE YEAR.



**T**he El Paso Chapter of the Texas Society of Professional Engineers (TSPE) will present its 56th Annual young Engineer of the Year Award to Eleazar Navar, P.E., CCM., on February 17, 2023. This honor serves to recognize Mr. Navar's technical ability, professional achievements, and civic and humanitarian activities. Mr. Navar is a graduate of the University of Texas at El Paso, where he earned a Bachelor of Science in Civil Engineering in 2016. Mr. Navar is a Professional Engineer-Construction Manager at Consor in El Paso. Over the past 7 years he has completed multiple construction projects for entities such as El Paso Water, TxDOT, the City of El Paso, El Paso County, and private developers. He enjoys and is passionate about construction projects in the utility sector including water and sewer lines and potable water reservoirs among other areas. The thing he enjoys most about his job is improving the lives of thousands of people by helping provide critical services such as wastewater service, potable water, and connecting communities through roads, bridges, and other transportation infrastructure. He has completed more than \$50M in construction projects combined. In his short time frame as a professional engineer, he has developed vast experience and expansive knowledge in multiple sectors in the Southwest region.

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On behalf of the El Paso Chapter of the Texas Society of Professional Engineers, we hope you enjoy this special section of the El Paso Inc. celebrating the 72<sup>nd</sup> Annual National Engineers Week. This week is dedicated to raising public awareness of the engineering profession amongst students, parents, and teachers and to encourage students to pursue engineering and technology careers in order to provide a diverse and vigorous engineering workforce. Engineers Week was started in 1951 by the National Society of Professional Engineers and is now a collaboration of more than seventy engineering, educational and cultural societies with the support of many corporations and government agencies. Although we are celebrating one week, we invite you to explore and increase your awareness of how engineers, through innovation, contribute to our everyday quality of life. Speak to a teacher, counselor or one of the many engineers working in our community and find out how you can or encourage someone to pursue an engineering profession.

Sincerely,



Karla Rios, P.E.  
 President, El Paso Chapter of TSPE

