ORANGE COUNTY SANITATION DISTRICT

pipeline

JANUARY
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YOUR SOURCE FOR OC SAN NEWS AND INFORMATION

Headquarters — One Step Closer

We are steps closer to a new headquarters building. It may seem hard to believe until you see the headquarters with your own eyes, but a lot has taken place to get to where we are today.

A lot goes on in the background to get a project into construction. As a recap, we purchased property across the street from Plant No. 1 to construct a new 110,000-sqft, three story headquarters building, onsite parking, and pedestrian bridge across Ellis Avenue.

The headquarters building will house about 350 staff from the Administration, Human Resources, Risk Management, Purchasing, Contracts, Engineering, and Environmental Compliance trailers and buildings scattered throughout Plant No. 1.

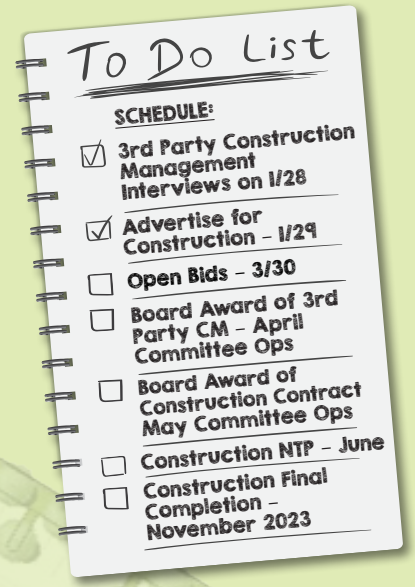
Back in June 2019, there was an in person headquarters at-a-glance event to view preliminary renderings and a 3-D virtual reality experience that was later shared with all of our employees via our employee intranet site.

There are five buildings on the property across the street, four were demolished just a couple of months ago, and time-lapse footage and video were shared on The San Box (formally MyOCSD) and via social media. We have worked closely with the City of Fountain Valley from the very beginning and now have the final design documents.

The traditional method of project delivery includes a public advertisement for bid. Contractors bid the project and the lowest responsible, responsive bidder is awarded the job. With this project, we prequalified the contractors. The prequalification helps to reduce risk, reduce time and ensure fair competition.

Alongside the prequalification process and finalizing the design documents, we are also in the process of procuring a consulting firm for third-party construction management services. Constructing a building is different than wastewater treatment facilities. The construction management firm will ensure a dedicated project team through the completion of the project and allow our in-house construction management group to focus on our critical wastewater projects.

It has been a team effort to get this project to where it is today. It could not have been done without staff from across the organization, Engineering, Contracts Administration, Finance, Risk, Maintenance, IT, and several other divisions, and with support and leadership from our Board of Directors.



The next steps include receiving bids at the end of March, a recommendation to award to the lowest bidder will go to the May Operations Committee, with the contract awarded at the May Board Meeting. Construction will begin this summer and take a little over two years to complete. View the at a glance schedule along with check marks. We are making progress. Great job team!

Ariel view of cleared land.

TOP: Exterior rendering facing Ellis Avenue.
BOTTOM: Exterior courtyard rendering.

CONSTRUCTION CORNER

What's Got Us All Wound Up?

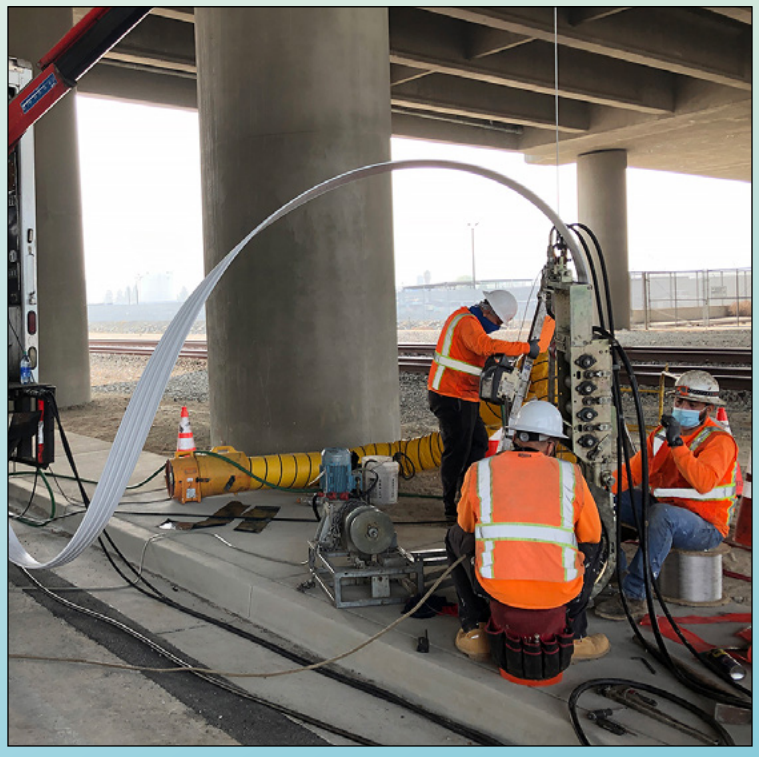
We know pipes like the back of our hand, but repair methods vary so much and change quite often that we sometimes have to venture out and try new things. That was the case with the Tustin Avenue Manhole and Pipe Repair (FE17-06) and East Coast Highway Trunk Repair (FRC-0005) projects. For the first time ever, we used the spiral wound method to install a fully structural tight-fitting liner within the existing sewers.

The Tustin Avenue Manhole and Pipe Repair project rehabilitated a sewer line near Tustin Avenue and Orangethorpe Avenue in the cities of Anaheim and Placentia. OC San repaired 250 linear feet of 24-inch diameter regional sewer line, a clay pipe that was originally installed in 1960, that had significant cracks. The East Coast Highway Trunk Repair project rehabilitated 275 linear feet of 20-inch cast iron sewer pipe in the city of Newport Beach near Pacific Coast Highway and Newport Center Drive.

Using spiral wound technology has several benefits. The process can be used without the need for a trench as it only requires a manhole or an existing access point. There can be some existing flow in the pipe so most the time there is no need to shut down services or bypass flows, which always includes a level of risk. The spiral wound method also requires limited site setup which equals a small construction footprint, limiting impacts to the public.

The process starts above ground. polyvinyl chloride (PVC), a strong plastic material, is fed through a manhole or existing opening from an above ground spool. The material is flat entering the opening and winds in a spiral pattern as it moves through the pipe. Picture an unstretched slinky, that is similar to what the PVC looks like as it winds around the pipe.

Once the material reaches the manhole on the far end, winding is stopped and a locking type of device within the PVC profile is cut. Cutting the locking device causes the material to expand fully to fit the inside of the pipe, forming a tight fit against the pipe wall. The spiral wound PVC now serves as a new pipe! And voila, the project is completed.



Crews feed PVC material through a manhole cover to rehabilitate a sewer line near Tustin Avenue.

Cast iron pipe after installation of PVC liner.

Source Control Has It Under Control

Approximately 10 percent of OC San's influent is made up of wastewater from industrial sources. When considering that OC San receives about 189 million gallons of wastewater each day — the industrial component is quite significant, as it contains toxic pollutants that may not normally be present in conventional sanitary wastewater.

The Resource Protection Division mission is to limit the level of pollutants discharged by these industrial facilities through pretreatment, while also protecting our collection system, treatment plants, and employees. To this end, the division also plays a significant role in protecting our reuse initiatives, including biosolids reclamation and the Groundwater Replenishment System.

The Source Control Inspection (SCI) team is the boots-on-the-ground component of the division. They are responsible for the inspection, sampling, site compliance, and evaluation components of our pretreatment program. They are also responsible for the wastehauler station at Plant No. 1, which accepts non-flushable wastes like septic tank pump-outs and restaurant grease.

As this first line of defense, the SCI team also conducts investigations which are initiated by the findings of field observations, sampling results, information from our partner/member agencies, or indications in the plants. For example, when higher-than-usual pollutant concentrations are detected in biosolids, the division is one of the first groups alerted. With assistance from the other groups within Environmental Protection, and utilizing data collected from the plants and the industrial users, the SCI team will work to mitigate the pollutant's source.

Where it is more difficult to identify the specific source over a wide collection system area, the division relies on our source control inspectors. A successful investigation will identify the industrial discharger or dischargers who caused the pollutant increase, and the division will then conduct enforcement to prevent future violations and bring the user back into long-term compliance.

The SCI Team is proud to contribute to protecting OC San's infrastructure and reuse initiatives, as well as public health and the environment.

SCI documenting chemical inventory during an Inspection at an OC San Permittee (Pre-COVID-10).

SCI Staff collecting sewershed samples as apart of OC San's wastewater epidemiology efforts.

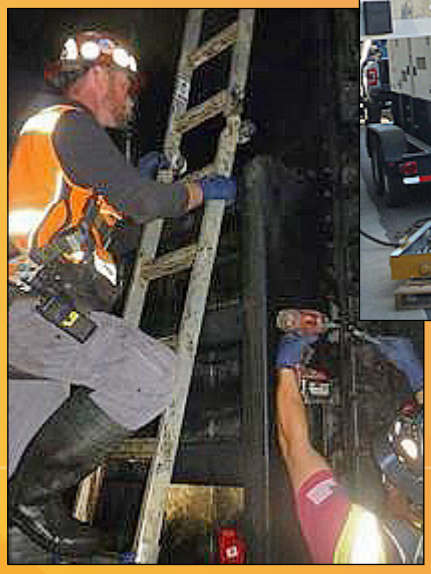
OC San on the Case, OC San on the Job

There are certain words that you like hearing at a wastewater treatment plant. Words such as cake, influent, and so on. But, there are also words that you do not like hearing such as — LEAK! OC San conducts regular assessment and maintenance checks on all equipment, this ensures that if there is a leak, we will catch it! At the end of August, a major leak was identified in the 90-inch influent gate at the east side of the Primary Influent Splitter Box (PISB). The PISB is an important structure as it distributes wastewater to the rectangular primary clarifiers. Failure of this gate would result in a significant reduction of primary treatment at Plant No. 1.

An assessment and repair effort was coordinated in December between the Operations, Maintenance and Planning divisions to inspect the gate. On a normal day, Plant No. 1 receives about 117 million gallons a day (MGD) of influent flow. With coordination and help between Plant No. 1, Plant No. 2 and the Orange County Water District, OC San's wastewater influent was reduced to 80 MGD to dewater the box and provide isolation and safe access to the gate. This three-day effort resulted in a successful assessment of the 90-inch influent gate, verification that the gate operation was reliable, and gate repairs to resolve the leakage and retrieval of a failed scum gate from the PISB box. This effort resulted to be a $35,000 repair. Originally this inspection was believed to cost about $90,000 to replace if the gate had failed and needed to be replaced.

This is just one example of how OC San gets the work done in a collaborative effort and can save money by investigating and knowing the condition of our assets.

OC San Contractor preparing for the gate repairs.



OC San Contractor performing gate repairs and conducting preventative maintenance.

CELEBRATING 30 YEARS

Kym Smith, Div. 770 — In the blink of an eye 30 years have come and gone. I have definitely experienced much of my life here. I remember my first day as if it were yesterday! Starting at 24 years old, I would say I grew up here.

I am forever grateful for the friendship and forever bonds I have gained here, and memories that will stay with me forever.

Out of the 30 years, I was blessed to work the last 13.5 years at Plant No. 2, in construction. I actually learned what it is we do here (LOL), and proud that I was able to be part of such amazing work.

I really want to thank management who truly played a powerful hand in who and where I am today. Be blessed, and don't blink too fast.

Accolades

Congratulations to OC San winners of the **Santa Ana River Basin Section** of the California Water Environment Agency:

- **Operator of the Year** — Gold - **Michael Huls**, Div. 840
- **Collection System Person of the Year — Steve Grande**, Div. 820
- **Collection System of the Year**, in the 200 - 500 mile catagory
- **Gimmicks and Gadgets —** Alkaline Enhanced Iron Odor Control Patent

In Memoriam

Linda Losurdo

In January, we were saddened to hear that one of OC San's long time employee Linda Losurdo, passed away.

She had been with OC San for 30 years and worked in Operations and Maintenance as an Administrative Assistant at Plant No. 2. Linda was well known and always willing to help when asked. She was like the honorary mother to the Plant No. 2 staff.

She will be forever remembered for her passion and dedication to her work, colleagues, and friends. Rest in peace Linda. We will all greatly miss you.

"Rest in peace sweet Linda — May the Angels above rejoice as they gain a beautiful Angel. We mourn here on earth. But, know you are resting now."

— Fawn Elizondo, Div. 620

Dan Chemotti

Dan passed away in December 2020. He joined OC San as a Construction Inspector in November 2015.

Prior to joining OC San, he worked as a Construction Inspector for Jacobs. Dan will be missed by all who knew him. He was kind, generous and knowledgeable.

He was committed to OC San and was always there whenever and wherever he was needed.

"Dan will certainly be missed. I was fortunate to work beside him and absorb some of his vast knowledge that he had of work and life from his unique and exciting life experiences. He was one of the most gracious and genuine people you could meet. He will certainly be missed, but never forgotten."

— Matthew Goldsmith, Div. 770

Wayne Mentink

Wayne passed away on Friday, February 5, 2021. He served in the U.S. Air Force from 1969 through 1973 at the Vandenburg Air Force Base in Lompoc, California. After an honorable discharge, Wayne worked as a carpenter in Solvang, California.

Wayne then started his engineering career for the Gentry - Rados building wastewater treatment plants. He continued his career with Gentry - Rados as an engineer responsible for field startup projects, and worked at Johnson Controls.

He joined the Orange County Sanitation District in 1993 where he enjoyed managing startup projects as well as programming controllers for over 21 years.

In 2015, Wayne retired. He and his wife moved back to Wisconsin to be closer to family and friends.

"I'm very sorry to hear of Wayne's passing. His understanding of process AND what was needed to actually make things work was outstanding. Wayne always had time to lend a hand. He was a great person to work with and learn from."

— Bob Bell, Div. 822

THE NEW Environmental Laboratory and Ocean Monitoring Manager

Congratulations to Sam Choi on his promotion to Environmental Laboratory and Ocean Monitoring Manager. Sam has been with OC San for nine years working in the Laboratory, Monitoring, and Compliance division. During the last four years, Sam served as the Environmental Supervisor for Microbiology, General Chemistry, and the sampling groups overseeing work to establish compliance.

Sam holds a Ph.D. in Environmental Science with an emphasis in Microbiology from the University of California Irvine, and recently obtained a Master's in Environmental Engineering from the California State University, Fullerton.

At home, Sam enjoys spending time with his wife Eunice and sons Elijah (human), Mandoo (dog), and soon to come Micah (human – coming April 2021).

Wishing the best to...

Ron Coss, Environmental Lab and Ocean Monitoring Manager retired on January 28, 2021 after 10 years of service.

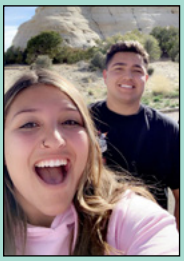
Eric Hsieh, Principal Info Tech Analyst retired on February 1, 2021 after 13 years of service.

Thomas Walker, Associate Engineer retired on January 7, 2021 after 29 years of service.

HOOT AND HOLLER!

A Year to Remember – 2020 Most Memorable Moments

Jennifer Cabral, Div. 110 — 2020 was a year to remember. Prior to the pandemic, James and I were able to travel to Texas, San Jose, and Puerto Vallarta to see our daughter Julia play softball for Colorado State. Once the pandemic hit, my son and daughter were able to take a road trip together to go back to Colorado to collect her belongings and all of us spent the next several months at home together. It was PERFECT (minus the pandemic). I am grateful for 2020 and the calmness, and simplicity that it brought to me and my family.



Adam Nazaroff, Div. 740 — In 2020 Adam celebrated his 20th wedding anniversary, AND his parents celebrated their 50th wedding anniversary.

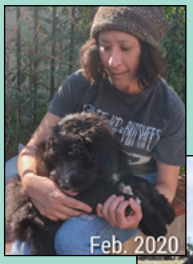
Larry Jones, Div.250 — Larry and his wife welcomed three new grandchildren in 2020!
Baby Jackson was born on March 11
Baby Regina was born on July 9
Baby Dane was born on September 15.

Paula Zeller, Div. 840 — My mom Kay and I on the patio of the Rusty Pelican -celebrating Thanksgiving. In December she celebrated her 85th birthday; earlier in the year, I celebrated my 55th birthday.

Jackie Tao, Div. 840 — My family had two new additions: a puppy and a kitten. "These two animals have opened my heart bigger than I can imagine." I am proud to share them: Dioji (French bulldog) and Momo (sphynx)!

Suzanne Crider, Div. 220 — My granddaughter, Hannah Crider, graduated from University of Arkansas with a degree in Psychology. Graduation was cancelled. She will be starting a PHd program in the fall.

Lori Shimomura, Div. 880 — One of my favorite and proud moments was the addition of this little guy into our family. We acquired Guinness in Feb. 2020 at 9 weeks old. He grew so fast and he's a blessing to me and my family.



New Faces
Welcome to OC San

Shawn Carman
Division 250
Principal Info Tech Analyst

Elsa Garcia
Division 230
Contract/Purchasing Assistant

Sai Lee
Division 610
Principal Environmental Specialist

David Ngo
Division 250
Senior Info Tech Analyst

Bryan Somen
Division 760
Information Tech Analyst III

Bryan Spidell
Division 822
Automotive/Heavy Equip Tech

CORE AWARDS

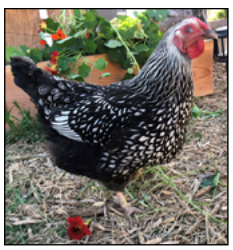
Congratulations to the following Core Award recipients (December 7, 2020 through February 4, 2021).

Janine Aguilar
Jesus Baez
Greg Blakeley
Tony Briseno
Frank Camarillo
Reed Calvo
Michael Childers
Philip Cordova
Daisy Covarrubias
Keith Criscuolo
Rhea DeGuzman
Elias De La Riva
Thys DeVries
Dickie Fernandez
Darius Ghazi
Camille Gillon
Thomas Hendy
Dereck Hooks
Ed Kovanda
Jackie Lagade
Stephen Lavelle
Rebecca Long
Denise Martinez
Michael Morey
Huan Nguyen
Man Nguyen
Jagadish Oruganti
Mike O'Reilly
Sang Paik
Samir Patel
Corey Riley
MarcoPolo Velasco
Cori Voss
Christopher Walker
Worthy Wang
Dennis Yu
Enrique Zapien
Paula Zeller

OC San Pets

MEET Max, he is a Yorkie-poo. His nickname is Mighty Mad Max. He enjoys going for walks on a trail near our home and is always hanging out with the kids.

***Yolanda Herrera**, Div. 120*



MEET Dot, one of my 10 chickens. She has a sister named Polka.

***Shannon Fuchs**, Div. 820*

ON THE MOVE

Molly Donahue, from Electrical Tech II to Lead Electrical Tech

David Wong, from Electrical Tech II to Lead Electrical Tech

Esther Chang, from Senior Plant Operator to Lead Plant Operator

Diane Marzano, from Contracts Administrator to Senior Contracts Administrator

Sam Choi, from Environmental Supervisor to Lab and Ocean Monitoring Manager

Service Awards

—30 YEARS—
Kym Smith

—25 YEARS—
Debbie Marchegiano

—20 YEARS—
Arturo Diaz

—15 YEARS—
Tanya Chong
Natasha Dubrovski
Ludwig Lapus
Duc Pham

—10 YEARS—
Anantkumar Amin
Benjamin Bewley
Jason Biedermann
Esther Chang
Matthew Connor
John Hinshaw

—5 YEARS—
Ana Barcia
Frank Camarillo
Tina Knapp
Rick Kwiecien
Tony Leak
Julio Montes
Jonathon Powell
Joseph Robledo
Melissa Soriano