MONTEREY PENINSULA
WATER SUPPLY PROJECT

NEWSLETTER
2017/1Q

MOVING FORWARD

PIPELINE PROCEEDING ON SCHEDUL

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Work is proceeding steadily in installing the Monterey Pipeline, which will be used to transport water from the Pure Water Monterey groundwater replenishment project and Cal Am's proposed desalination facility in Marina to the company's Monterey Peninsula service territory.

The pipeline will run about seven miles from Seaside to Pacific Grove and is on track to be completed by the end of 2017.

Thus far, over one mile of 36-inch diameter pipe has been installed, and the first two phases of the project – potholing and main relocation – are complete. The extensive pipeline is being installed simultaneously by two crews, one in Seaside and one in Monterey, and will eventually connect to form the seven-mile transmission main.

"The progress is very exciting," said California American Water Manager of External Affairs Catherine Stedman. "This is the first major piece of infrastructure to be constructed for our community's future water supply. After decades of planning for a sustainable water supply, it's extremely gratifying to see shovels in the ground and physical work underway."

Other components of the pipeline project include the Hilby Avenue aquifer storage and recovery (ASR) pump station, which is also on track to be completed in line with the Monterey Pipeline, with long-lead time items already being procured. In addition, final paving work is starting to take place in areas where the pipeline installation is complete.

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"Residents and business have been extremely patient and understanding," continued Stedman. "We thank them for putting up with the inconveniences presented by construction work and have been encouraged by the relatively low level of complaints. Fortunately, the crews are moving quickly. We've exceeded a pace of 200 feet per day in some areas and hope to continue to make efficient time as the project progresses."

a section of 36-inch pipline being prepped
for installation in Monterey

MEET CHRIS COOK

PROJECT MANAGER FOR THE WATER SUPPLY PROJECT

Chris Cook takes a moment to tell us about his previous experience as an engineer, and his new role with the Water Supply Project

On any given day, Chris Cook is most likely in a meeting or visiting a construction site. As the Engineering Manager of California American Water's Central Coast Division and a licensed engineer with over 10 years of project delivery experience, Chris has taken on the important role of leading the design, permitting, and construction teams for the Monterey Peninsula Water Supply Project.

Chris is a California native. He grew up in the Monterey area attending Stevenson High School and obtained his Bachelor of Science in Mechanical Engineering from the University of California, San Diego. He then served as a Peace Corps Volunteer in Guinea for two years, where he taught physics and French.

Reflecting on his time in West Africa, he says, "Living in a village with no running water showed me the value of treated water distributed to homes in developed countries."

Chris subsequently returned to California and devoted his career to working with water-related technology. In 2006, he joined the Santa Cruz-based CMS Collaborative, an engineering firm that specializes in water feature projects.

As a project manager and associate principal at CMS, Chris oversaw design, permitting, and construction administration of numerous national and international projects. While working at CMS he received his MBA from University of Santa Clara with a dual concentration in Managing Innovation & Technology and Leading People & Organizations.

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Shortly after finishing his MBA, Chris joined California American Water as an Assistant Engineering Manager with a primary focus on assisting the development of the Water Supply Project.

Chris says, "Having come back to the place where I grew up as a water engineer allows me to see the community in a different perspective. I did not recognize the complexity of Monterey's water system growing up, and my role now has given me an appreciation for what happens behind the scenes."

Late last year, Chris took on his current position as Engineering Manager for the Central Coast Division and Lead Project Manager for the MPWSP.

In this new role, Chris and his engineering team are focused on the Monterey Pipeline Construction, along with permitting tasks needed prior to the MPWSP's Environmental Impact Report certification. With over 50 agency approvals required for MPWSP, Chris says, "I appreciate how many different agencies it takes to make a project like this move forward. It's a partnership of all the agencies at the local, state, and federal levels."

In terms of internal coordination, Chris is working closely with Ian Crooks, California American Water's VP of Engineering, to continue to learn the history of the various project components and next steps required.

There is also significant inter-department coordination with Director of Operations, Eric Sabolsice and his operations team.

Chris says, "The Water Supply Project components include a desalination plant, slant wells, two ASR wells, two pump stations, and twenty-two miles of transmission main, all of which needs to be able to operate effeciently with our current system. Consequently, it is critical for the long-term success of the project to have operations input from the preliminary design phase through the final commissioning."

Looking forward, Chris recognizes the environmental value of this project and is excited for the positive benefits the project will bring to the Carmel River and Seaside Basin. "I remember canoeing down the Carmel River as a kid and seeing the turtles, herring, and even a steelhead trout – I love knowing that the river will be more ecologically sustainable as a result of the work we are doing," he says.

PIPELINE UPDATES ONLINE

Folks looking for information on the pipeline installation schedule, traffic impacts and informative maps can do so by going over to the project's website www.watersupplyproject.org/pipeline. Similar information can also be found on the project's facebook page www.facebook.com/Monterey_Water. For those with any concerns or special request can call California American Water's pipeline hotline at: **831-646-3297**. All calls will be followed up with in a timely manner.

ABOUT THE PROJECT

The Monterey Peninsula is facing a severe water supply problem. That's because the State Water Resources Control Board has ordered California American Water to significantly reduce its pumping of water from the Carmel River.

This order coupled with pumping restrictions in other parts of the county means that nearly 70 percent of the Monterey Peninsula community's historic water supply must be replaced.

The current project is comprised of three elements:

- Desalination
- Aquifer Storage and Recovery
- Pure Water Montery: A Groundwater Replenshiment Project

This multi-faceted approach brings numerous advantages over a single-source solution. For one, it will enable California American Water to build a smaller desalination plant that will reduce the project's environmental footprint.

Secondly, this strategy will build-in redundancy that is critical for all municipal water supply systems, allowing the water system to continue to provide water if one component becomes temporarily unavailable.

DESALINATION

The Monterey Peninsula Water Supply Project consists of sub-surface slant intake wells, a desalination plant, and related facilities including source water pipelines, product water pipelines and brine disposal facilities.

The desalination plant will produce 6,250 acre-feet of treated water per year. One acre-foot is equal to one acre filled with one foot of water, which is typically enough water to support four households on the Monterey Peninsula for a year.

California American Water purchased a 46-acre parcel of land located off of Charles Benson Road in Marina as the site for the proposed desalination plant.

California American Water has also secured access to and the ability to purchase permanent easements for locations to host its slant intake wells. California American Water's project will use a series of slant wells located near the coastline in the North Marina area designed to draw ocean water.

The slant wells will be up to 800 feet long. The final location, layout and configuration will be based on the results of the slant test well and groundwater modeling work. In addition to the plant and its intake wells, other pipeline, storage and pump facilities will need to be constructed to ultimately deliver water to customers.

AQUIFER STORAGE AND RECOVERY

California American Water will expand its current ASR project – a partnership with the Monterey Peninsula Water Management District – which captures excess winter flows from the Carmel River for storage in the Seaside Aquifer and withdrawal during the dry, summer months. Winter flows are considered excess only when they exceed what is needed to protect the river's threatened population of steelhead.

For the Monterey Peninsula Water Supply Project, the company plans to construct two additional ASR wells that will increase capacity of the program and allow the desalination plant to be smaller than would be needed without the wells.

BUDGET*

Subsurface Intake System and Supply Return Facilities: $79M (26% spent to date)

Desalination Plant: $115M (16% spent to date)

Pipeline Facilities: $128M (22% spent to date)

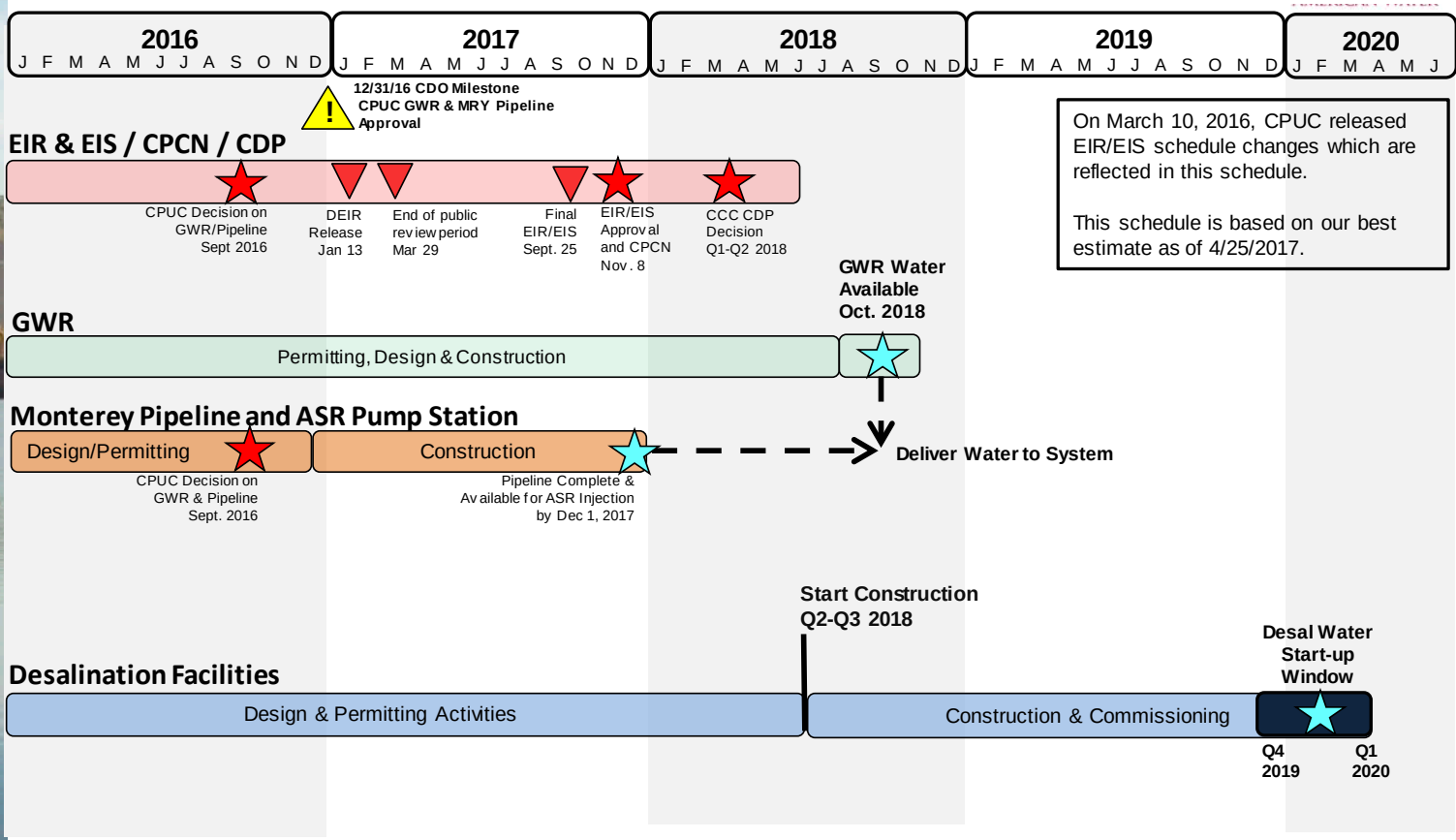
Pre-Construction Cost: $8M (100% spent to date)

*NOTE: These figures are based on a 6.4 MGD desalination facility. Pre-construction costs are included in the $322-million project total. Further breakdown of the above components will occur after the CPUC issues a Certificate of Public Convenience and Necessity permit for the MPWSP. These figures include financing and some contingency costs and therefore differ from the capital costs listed in the settlement.

For more information on the pipeline construction schedule and traffic impacts, please visit the project's website: www.watersupplyproject.org

Here you will find informaton on where construction crews will be and when. You can also sign up to receive a weekly email with traffic alerts and general project progress.

PROJECT SCHEDULE



Note: The schedule is based on the information and assumptions available at time of update and is accurate to +/-6 months.

MONTEREY PENINSULA

WATER SUPPLY PROJECT

WATER FOR OUR FUTURE