



Kiewit

DESALINATION

CAPABILITIES

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Schedule constraints, growing public scrutiny and regulatory hurdles can be challenging to manage and overcome. From plan and permit to design and construction, Kiewit uses collaborative project delivery methods that can shorten schedule and lower overall cost. As a result of our financial strength and world-class track record, including the largest seawater and brackish water desalination plants in North America, Kiewit is positioned to serve as a competent and powerful partner.



OFFERINGS



STRATEGIC POSITIONING



**CONSTRUCTION-FOCUSED
ENGINEERING**



**FULL TURN-KEY
APPROACH**



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STRATEGIC POSITIONING



Our strong financial position coupled with our proven reputation for price certainty helps our clients efficiently secure projects. We have entered into nearly every type of contractual arrangement, and we assist clients in assessing the financial and contractual structure necessary to economically secure their investment. Communication and alignment on risk-sharing are integral to a project's success.

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CONSTRUCTION-FOCUSED ENGINEERING

Since installing and commissioning over 80.5 million gallons per day (MGD) in the past decade, we have become the most experienced contractor of large-scale desalination plants in North America. By staying one step ahead of the unexpected and leveraging our extensive construction experience and integrated design-build approach, we proactively look ahead in order to maintain schedule, cost and quality. Because of our established nationwide relationships with original equipment manufacturers (OEM), our teams provide solutions to unique problems while remaining neutral to technology selection.



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FULL TURN-KEY APPROACH



Kiewit's comprehensive, systematic approach to validating, structuring and delivering projects allows our clients to focus on maximum capacity and optimal lifecycle costs. We bring decades of experience in the field and our industry leading engineering capabilities benefit our clients with comprehensive turn-key solutions that are designed for project site requirements — no matter how unique the project's circumstances.

- OEM technology selection
- BOP capabilities
- Permitting and regulatory coordination
- Structural
- Mechanical
- Electrical
- Civil
- Resident engineering
- Startup and commissioning

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CARLSBAD
DESALINATION PLANT ▾



CHARLES E. MEYER
DESALINATION PLANT ▾



KAY BAILEY HUTCHISON
DESALINATION PLANT ▾



SELECT EXPERIENCE

Our projects are equipped with state-of-the-art treatment process technologies and incorporate progressive design and construction best practices. Our focus is to reduce electrical demand and environmental impacts while providing the surrounding communities with critical water supply.




CARLSBAD DESALINATION PLANT ^



CHARLES E. MEYER DESALINATION PLANT v



KAY BAILEY HUTCHISON DESALINATION PLANT v



CARLSBAD, CA

Kiewit designed and constructed one of the largest, most technologically advanced and energy-efficient seawater desalination plant in North America. Scope included a SWRO facility with a pumping station and produced water storage and a 10-mile, 54-inch high-pressure welded steel conveyance pipeline. Kiewit also managed the seamless integration between the 50 MGD plant and the distribution system, which included nine jack and bore crossings, over 900 existing utility crossings, a 1,750 LF tunnel and 42 manways.




**CARLSBAD
DESALINATION PLANT** ▾



**CHARLES E. MEYER
DESALINATION PLANT** ▴



**KAY BAILEY HUTCHISON
DESALINATION PLANT** ▾



SANTA BARBARA, CA

Kiewit led balance of plant (BOP) design and construction of the facilities, structures and infrastructure for this 3 MGD desalination plant. The revitalized plant and overall system uses state-of-the-art technology and incorporates progressive design and construction practices in all facilities and systems to reduce electrical demand and environmental impacts while providing critical water supply for the city.



**CARLSBAD
DESALINATION PLANT** ▾



**CHARLES E. MEYER
DESALINATION PLANT** ▾



**KAY BAILEY HUTCHISON
DESALINATION PLANT** ▴



EL PASO, TX

As the largest brackish water desalination plant in North America, this 27.5 MGD plant has the capacity to meet the needs of both the city of El Paso and Ft. Bliss Army Base. Working within the constraints of a 22-month schedule between notice to proceed and substantial completion, Kiewit performed all structural concrete work; set all embed items for mechanical equipment and structural steel; installed pumps, piping, RO skids, chemical systems and equipment; and performed start up and commissioning.