



Cherokee Lift Station No. 1 Sand Creek Facility Addition



2024

ABOUT THIS PROJECT:

Market Segment:
Wastewater Treatment Plant

Engineer:
JVA, Inc. (Boulder)

Location:
Colorado Springs,
Colorado USA

Owner:
Cherokee Metropolitan District

Construction Manager:
Rice Lake West (fka
Stanek Constructors -
Golden CO)

Products Used:
Xypex Bio-San

Ready-Mix:
Holcim (Colorado
Springs)

This project involved the construction of a new lift station to replace existing wastewater settling ponds in compliance with updated EPA regulations. The new lift station serves as a fully enclosed holding tank designed to manage wastewater efficiently while ensuring long-term durability and environmental compliance.



To address the harsh conditions within the lift station, Xypex Bio-San was incorporated into the concrete mix, providing integral protection against microbial-induced corrosion (MIC) caused by high levels of hydrogen sulfide (H_2S). Its advanced crystalline technology enables self-healing of micro-cracks and resistance to hydrostatic pressure, ensuring long-term impermeability and structural integrity.



Xypex Bio-San offered a durable, cost-effective, and maintenance-free alternative to membranes, particularly for complex or high-exposure structures. Environmentally sustainable, it reduces waste and labour costs while outperforming membranes in harsh conditions.

