



South Lathrop Commons Center Sewage Pump Station

City of Lathrop, California, USA



Completion Date OCTOBER 2018

Owner CITY OF LATHROP, CALIFORNIA

Engineer PACE ADVANCED ENGINEERING

Contractor

CONCO WEST INC.

Precaster JENSEN PRECAST

Products BIO-SAN C500, MEGAMIX II WITH BIO-SAN

Project Type SEWAGE PUMP/LIFT STATION



The South Lathrop Commons Centre Sewage Pump Station is a pre-cast structure made of eight separate elements. The elements consist of a precast slab, 6 large "box culvert" shaped sections that are stacked to create the chamber itself and a roof. The joints are sealed with flexible waterstop materials and the gaps filled with Xypex Megamix II with Bio-San to protect the gaskets. This structure is to service a new large warehousing complex.

In order to protect the concrete structure from microbial induced corrosion and to achieve water tightness, Xypex Bio-San C500 was added to the concrete mix at the Jensen Precast's plant at the time of batching. The Bio-San C500 contains antimicrobial crystalline technology which both kills the acid-producing microbes which proliferate in sewage structures as well as providing watertight, chemically resistant concrete with crack-healing properties. Jensen Precast reported no operational or other issues in regards to mixing, casting or curing of the concrete containing Xypex Bio-San C500. The use of Xypex Bio-San C500 is expected to significantly extend the life as well as greatly reduce any long term maintenance of this important new piece of infrastructure.