

AVILA BEACH CSD

50,000 GPD MEMPAC™ - M50 Avila Beach, CA



Communities Service District (ABCSD).

The location of the wastewater treatment facility is in close proximity to several public areas including a walking trail, golf course and downtown shopping area. To minimize the disturbance to residential neighbors, Cloacina incorporated a sound-attenuated room to house the process blowers.

The new membrane bioreactor will provide the District reliability and redundancy for their treatment system and a much higher quality effluent. The District is optimistic that the higher quality effluent will lead to recycled water use opportunities on the nearby golf course, parks and other green spaces.



PROJECT TEAM



BRAD HAGEMANN AVILA BEACH CSD PRINCIPAL



PROJECT ENGINEER BRYAN CHILDRESS THE WALLACE GROUP



PROJECT CONTRACTOR CHARLIE HARTZELL HART7FII GENERAL **ENGINEERING CONTRACTORS**

Cannon

CONSTRUCTION MANAGER MATT SCHOLFIELD CANNON



PLANT OPERATOR SHAWN POWELL FLUID RESOURCE MANAGEMENT

DESIGN PARAMETERS

MODEL SUPPLIED: MEMPAC-M50

INFLUENT PARAMETERS

AVERAGE DAILY FLOW 50,000 GPD BIOCHEMICAL OXYGEN DEMAND 674 MG/L

TOTAL SUSPENDED SOLIDS 481 MG/L

INFLUENT TYPE MUNICIPAL

EFFLUENT QUALITY

BIOCHEMICAL OXYGEN DEMAND < 10 MG/L

TOTAL SUSPENDED SOLIDS < 10 MG/L







CLOACINA SUPPLIED THE FOLLOWING FOR THIS PROJECT:

EQUIPMENT:

MEMPAC-M50

HEADWORKS:

Two Or-Tech micro bar screens and an integrated washer compactor

SECONDARY TREATMENT/ACTIVATED SLUDGE:

Sludge holding tank

CONTROLS:

Allen Bradly PLC's and drives

SLUDGE HANDLING:

23,000 gallon stainless steel cylindrical tank

DISINFECTION:

Utilizes the existing chlorine contact chamber