WESTERN RIVERSIDE WPCF CUTS COSTS AND EXPANDS CAPACITY WITH HUBER S-DISC2 DISC THICKENER

BACKGROUND AND CHALLENGES

The Western Riverside Water Pollution Control Facility processes approximately 10.5 (of its permitted 14) million gallons per day (MGD) of municipal and industrial wastewater. In 2018 the facility was upgraded to the current capacity and enhancing its treatment level to allow for water reuse, meeting title 22 requirements. With the upgrade they switched from aerobic to an anerobic digestion process. They faced multiple challenges.

- No existing thickening capabilities.
- Digester space due to low feed solids.
- Higher operating costs.
- The need for additional digesters.

SOLUTIONS PROVIDED BY HUBER TECHNOLOGY, INC.

The HUBER S-DISC2® Disc Thickener is a high-performance thickening system designed for low energy consumption and maximum solids capture. Key advantages of this solution included:

- Compact design – a smaller building could be utilized.
- Fully enclosed and odor-free operation – improved working conditions for plant staff.
- Automated and continuous operation – reduced manual intervention and increased efficiency, allowing unattended operation over a 24-hour period.

PROJECT DATA

Client: Western Municipal Water District

Location: Western Riverside WPCF. Corona, CA

Project Type: Sludge Thickening

HUBER Technology, Inc. Solution: HUBER S-DISC2

Completion Date: December 2016

IMPLEMENTATION & EXECUTION

• Q3 2013: Designs for the upgraded facility

• Q2 2016: Installation of HUBER S-DISC2® and integration with the plant facility

• Q4 2017: Commissioning, operator training, and system optimization.

RESULTS & BENEFITS

Improvements:
✅ Reduction in digester space.
✅ Improved digester efficiency.
✅ Lower energy use, leading to operational savings.

Operational & Environmental Gains:
✅ Consistent, automated thickening, freeing up operators for higher-value tasks.
✅ Odor control and improved workplace environment with enclosed system design.
✅ Lower carbon footprint, aligning with the plant's sustainability goals.

CONCLUSION

The implementation of the HUBER S-DISC2® has dramatically improved sludge management at the Western Riverside WPC. With lower operating costs, due to the thickening of their digester feed sludge. The improved performance of their converted digesters reduced the need for additional units to meet the time and temperature needs of an anaerobic digestion system.

CLIENT TESTIMONIAL

The HUBER S-Disc "…allowed us to greatly reduce the upgrade costs by allowing us to utilize the existing digesters. We were able to keep the same footprint within our facility. Land and permitting is expensive in California and the HUBER systems provided allowed us to keep our construction costs down."

— Tony Pollak, Deputy Director of System Operations, Western Municipal Water District

ABOUT HUBER TECHNOLOGY, INC.

Headquartered in Denver, North Carolina, HUBER Technology, Inc. operates a 206,000-square-foot state-of-the-art facility that houses offices, training centers, and advanced manufacturing capabilities. This enables us to design, produce, and deliver a wide range of wastewater treatment equipment, from dewatering screw press systems, headworks screens, grit handling, septage receiving, tertiary filtration and equipment and drying of biosolids equipment for use in the water and wastewater industry.

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For more information about the HUBER Disc Thickener S-DISC please scan the QR code