PROJECT REPORT

HAWAII ENGINEERING SERVICES

LIHUE PUHI | AUGER SCREENS | 2024

Problem

- One aging auger screen at the Lihue Puhi Wastewater Treatment Plant needed to be removed and replaced.
- The plant required reliable screening during equipment maintenance and high-flow events.
- Full-capacity redundancy was needed to reduce the risk of treatment interruptions.
- The owner wanted to improve screenings handling while reducing maintenance and disposal costs.

Solution: Huber Micro Strainer ROTAMAT® Ro9 Screw Screens



- Installed two Huber Micro Strainer ROTAMAT® Ro9 Screw Screens: one to replace the aging unit and one to provide full-capacity redundancy.
- Combined screening, conveying, washing, dewatering and compaction in one compact system.
- Used a single-drive design to reduce mechanical complexity and maintenance requirements.
- Added self-cleaning operation to support consistent performance with less operator intervention.
- Washed and compacted screenings to reduce waste volume and weight before disposal.

Conclusion

- Modernized the plant's headworks screening system.
- Improved operational reliability and wastewater screening performance.
- Provided uninterrupted screening during maintenance and high-flow conditions.
- Reduced screenings volume, weight and associated disposal costs.
- Simplified equipment operation and maintenance.
- Improved protection of downstream pumps and treatment processes.



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