

**PROJECT LOCATION**  
California

**PROJECT TYPE**  
Construction

**PROJECT TIMEFRAME**  
July 2018 - Present

**PROJECT PHASE**  
Complete

**CONSTRUCTION COST**  
\$3,200,000

**AV<sup>®</sup> SCOPE OF WORK**  
\$500,000

**END USER**  
Department of Energy

**GENERAL CONTRACTOR**  
Garney Construction Company

**DESIGN ENGINEER**  
Stantec

**SALES CONTACT**  
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## Garney Construction Company Selects Aqueous Vets<sup>®</sup> (AV<sup>®</sup>) to Provide Critical Treatment System for Department of Energy Facility

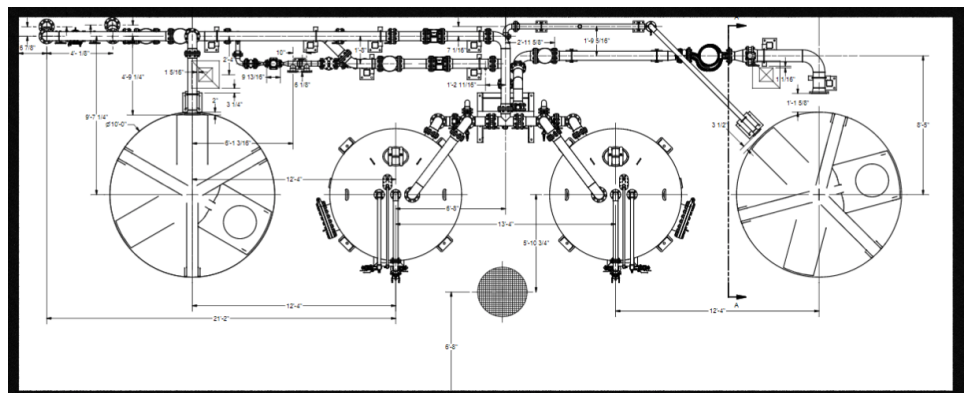
In the spring of 2018, the Department of Energy initiated upgrades at a Northern California facility. The scope of work involved the construction of a new water treatment facility designed to control Disinfection By-Products, primarily Trihalomethanes (THM's).

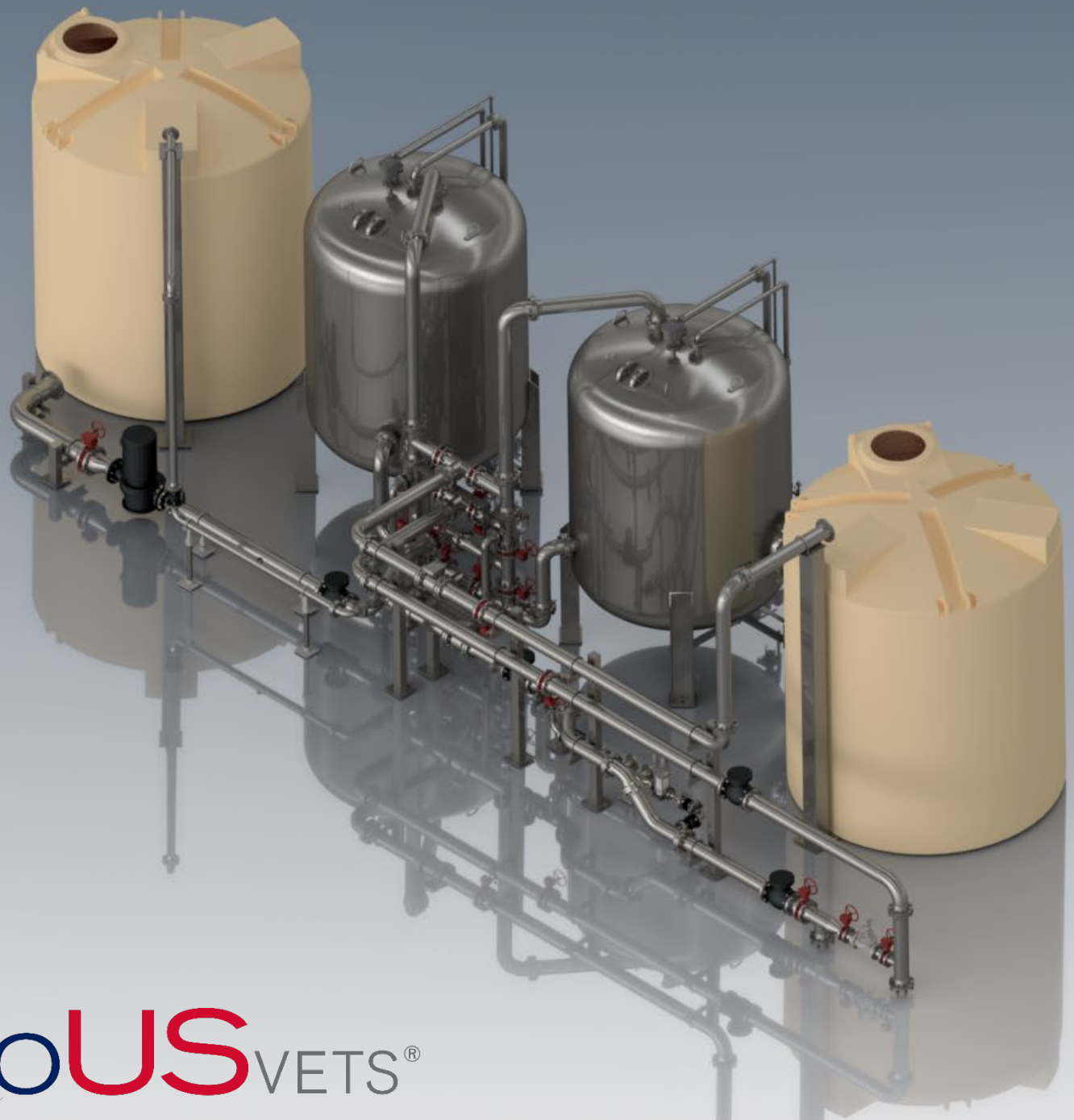
### Project Details

The Water Treatment Plant equipment design consisted of a Granular Activated Carbon System (GACS) to remove Total Organic Carbon (TOC), Backwash Supply and Feed Tanks, Chemical Feed Systems, Pumps, Mixers, Controls, and interconnecting Fabricated Steel Pipe.

During the evaluation process AV championed our "Total Solutions" approach. AV presented a responsible single source to Garney Construction for equipment selection and supply, piping fabrication, installation, and integration of the treatment equipment. AV's technical approach, project management team and proven experience was selected for providing the best value for this critical water quality project.

Key GAC System Design & Operational Parameters	Value
Number of Systems/Vessels per System	1/2
Operating Configuration	Parallel/Lead-Lag
Carbon Capacity/Volume per Vessel	300 ft <sup>3</sup>
Carbon Type	Coal
Design Flow Rate	200 gpm
Hydraulic Loading	4 gpm/ft <sup>2</sup>
Empty Bed Contact Time per System	22.4 minutes
Underdrain	Header Lateral
System Overall Height to Top of Pipe	14'-8"





AqueoUS<sup>®</sup> VETS