SELECTED BY LEADING AEROSPACE DEFENSE CONTRACTOR

# Aqueous Vets® Named a Manufacturing Partner for a Southern CA Water Treatment Facility

## BACKGROUND

In August 2018, Aqueous Vets® (AV®) was selected over existing industry incumbents to supply the Granular Activated Carbon Systems (GACS) for a Southern California Water Treatment Plant. An exhaustive review of project requirements led to selecting AV as providing the best value for this critical water quality project. The decision was based on technical approach, project management team, and proven track record. AV was contracted in the fall of 2018.

## AQUEOUS VETS SCOPE

After review of the initial overall design, AV conducted a constructability review that resulted in cost reductions and design improvements. AV provided system design, manufacture, and supply of four large 12-foot diameter systems with a combined 320,000 pounds of GAC. Each system holds 80,000 pounds of GAC for the removal of Volatile Organic Compounds (VOCs) at the newly constructed Water Treatment Plant. **The four GACS are designed to process up to 6.3 MGD**, while removing multiple VOCs from groundwater treated at the site.

**PROJECT LOCATION**
Southern California

**PROJECT TIMEFRAME**
Dec. 2018 – Aug. 2019

**AV® SCOPE OF WORK**
$1,800,000

**GENERAL CONTRACTOR**
R.C. Foster

**PROJECT TYPE**
Design and Manufacture

**PROJECT PHASE**
In Process

**END USER**
Aerospace Defense Contractor

**DESIGN ENGINEER**
Geosyntec

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AqueoUS VETS®

| KEY GAC SYSTEM DESIGN & OPERATIONAL PARAMETERS | VALUE |
|---|---|
| Number of Systems/Vessels per System | 4/2 |
| Operating Configuration | Downflow/Lead-Lag |
| Carbon Capacity/Volume per Vessel | 40,000 lbs/1,356 $ft^3$ |
| Media Type | Coconut |
| Design Flow Rate (Total/Per System) | 6.3 MGD/1,100 gpm |
| Hydraulic Loading | 9.7 gpm/$ft^2$ |
| Empty Bed Contact Time @ 1,100 gpm/system | 18.5 Minutes |
| Underdrain | Septa/External Ring Header |
| Overall System Height to Top of Pipe | 24'-9" |

AqueoUSVETS®