



# Ironhouse Sanitary District's Waste Water Treatment Facility Oakley, California

## Geopier® elements were installed to provide liquefaction remediation and foundation support for Ironhouse Sanitary District's Waste Water Treatment Facility

**Description:** This project consisted of providing liquefaction remediation and foundation support for several tank and equipment structures at Ironhouse Sanitary District's Waste Water Treatment Facility in Oakley, California.

**Subsurface Conditions:** Soil conditions were five to 10 feet of soft to medium lean to fat clay over loose to medium dense sand to silty and clayey sand that extended to depths of up to 25 feet below grade. Very stiff to hard clay was encountered from 25 to 60 feet over dense sand and gravel. Groundwater was encountered five feet below grade.

**Geopier Solution:** Over 2,000 Rammed Aggregate Pier® elements were installed to depths of up to 25 feet below grade for liquefaction mitigation and static/seismic settlement control.



### PROJECT TEAM

**Owner:**  
Ironhouse Sanitary District

**Geotechnical Engineer:**  
DCM Geotechnical

**Structural Engineer:**  
TJC & Associates

**General Contractor:**  
Western Water Constructors

**Geopier Installer:**  
Farrell Design-Build Companies, Inc.

**Geopier Designer:**  
Farrell Design-Build Companies, Inc.