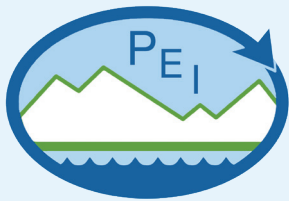




CASE STUDY



Presby Environmental, Inc.

PROJECT NAME

Paradise, CA, Tuscan Ridge, FEMA Basecamp

SYSTEM SPECIFICATIONS

100,000-gallon per day AES Treatment System with 33,600 lf of AES Pipe

PRODUCTS USED

Presby Environmental Advanced Enviro-Septic® (AES) Combined Treatment and Dispersal System & AES Pipe

INSTALLATION DATE

July 2019

CONTRACTOR

NexGen Septics, LLC
Rocklin, CA

ENGINEER

NexGen Engineering & Consulting, LLC
Rocklin, CA



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Advanced Enviro-Septic System Provides Unique Solution for FEMA Housing in Paradise, California

SUMMARY

The 2018 “Camp Fire” devastated the community of Paradise, California, killing 85 people, destroying 11,000 homes, and displacing nearly 50,000 people. The Federal Emergency Management Agency (FEMA) needed to stabilize the situation and support rehabilitation of the community. This required a 1500-person workforce housing camp, which included 400 temporary housing units, laundromat, and food preparation and dining facilities.

CHALLENGES

Complications included accelerated deadlines and extreme site limitations, including shallow lava formations, which impeded construction and precluded subsurface dispersal. A General Order Permit was acquired to speed development.

SYSTEM DETAILS

A 100,000 gallon-per-day (GPD) Advanced Enviro-Septic (AES) combined treatment and dispersal system was selected and specialized equipment was employed to excavate through solid lava-rock. The AES system receives gravity-flow influent to four, 40,000-gallon septic tanks configured in series. The effluent is then segregated into four treatment paths to facilitate isolation during maintenance. The flow is split to four, lined, AES beds performing passive, secondary treatment. Each 25,000 GPD bed contains 8,400 feet of AES pipe surrounded by specified sand for a total 33,600 feet of AES pipe. Treated effluent is collected and gravity-distributed to four, UV disinfection units, each followed by a pump tank. These pumps distribute purified effluent to two evapotranspiration ponds, which allow for possible reuse.

RESULTS

The low maintenance, high flow, AES system, including disinfection, allows for full occupancy of the FEMA work housing camp. This provides needed resources close to the devastated community. New building codes and improved street planning will hopefully prevent similar, future devastation.