



AquaKlear Case Study: Creekside Property



Limited space, high groundwater & close proximity to a perennial creek created quite a challenge for this septic repair in Monterey County. For this ¼ acre lot, the designer recommended the [AK6S245F](#), AquaKlear's nitrogen-reducing fiberglass system, with ultraviolet disinfection, dispersing to a Geoflow subsurface drip field.

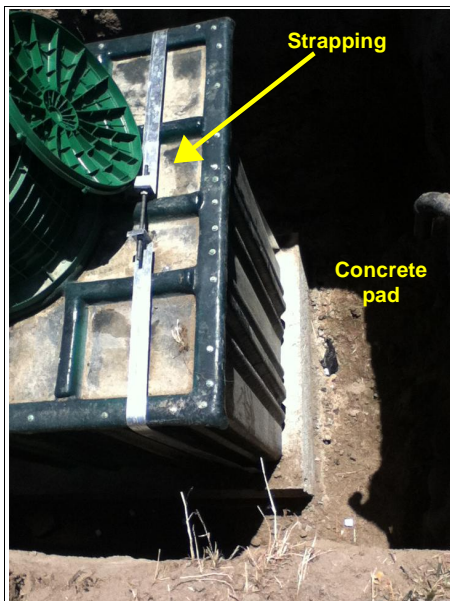


House adjacent to perennial creek



AK6S245F features a 424 gal pretreatment tank with 600 gpd processing unit; flows to separate 750 gal pump tank

Additionally, because of high groundwater levels (measured at less than 3'), the installer securely strapped & bolted the fiberglass tanks to a concrete pad to prevent floatation.



Concrete pad embedded with bolts; tank then strapped to pad

SYSTEM PROFILE:

Location:	Monterey County
Property Type:	Single Family Residence
Design Flow:	300 gpd
Soil Type:	Sandy loam (6-30 mpi)
Property Size:	10,400 +/- sq ft (apx ¼ acre)
Property Concerns:	Groundwater at < 3'; adjacent to creek
AquaKlear Solution:	Nitrogen-reducing model AK6S245F and 750 gallon pump tank with pressure-dose dispersal to Geoflow subsurface drip
Designer:	Ken Mabie, REHS #3579 Environmental Concepts, Aptos
Installer:	Daniel Cortes, CSLB #724326 McDaniel's Construction, Salinas

After passing through the Salcor ultraviolet disinfection light, the treated water is pressure dispersed to a Geoflow subsurface drip system using our ½ horsepower effluent pump together with an AquaKlear headwork's manifold.



AquaKlear's headwork's manifold features a 120 micron disc filter, sampling port, flowmeter, solenoid valve & air-release valves (to prevent siphoning)



Geoflow subsurface drip system – approximately 500 sq ft

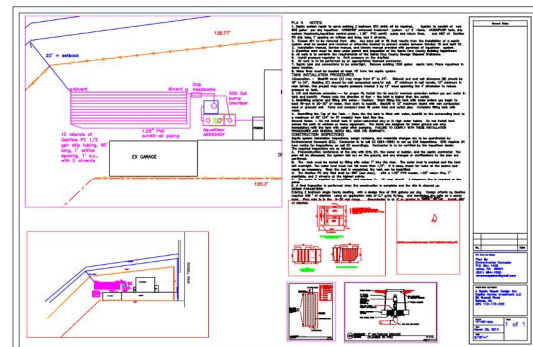
The entire system is operated by the easy-to-use AquaKlear controller & remotely monitored by the RMSYS Onsite Monitoring Program. In the event of a problem, the system automatically contacts service personnel



AquaKlear control center with AK Dual-Outlet Compressor



Completed installation before final backfill



Design plans