



CASE STUDY

PROJECT NAME

Hawaii Coastal Retreat

DESIGN FLOW

15,000 Gallons Per Day

PRODUCTS USED

Whitewater DF60
ECOFILTER Pump Vault

DEGREE OF TREATMENT

Aerobic Treatment
BOD Reduction
TSS Reduction
Treatment

WASTE TYPE

Domestic

LOCATION

Coastal Region of Hawaii

Improving Wastewater Quality for an Ecologically and Culturally Sensitive Community on the Coast of Hawaii

CHALLENGE

A coastal retreat community located on the shores of Hawaii was looking to remove large capacity cesspools that serviced their vacation lodging facilities. The goal was to replace them with a technology that provided improved water quality in order to protect beaches and waterfront enjoyed by approximately 500,000 recreational users annually. The technology had to be mindful of sensitive ecological constraints and stringent regulations while protecting and maintaining ancient Hawaiian burials and cultural resources.

SOLUTION

Infiltrator Water Technologies was commissioned to provide a treatment solution that would be installed at each individual lodging facility. The Whitewater DF60 system was provided to service 26 individual cabins along the coast of the island. The DF60 is a Pump Vault unit designed to reduce BOD, TSS and ammonia with a 600 gpd design flow capacity. Wastewater discharged from the cabin flowed into a 500 gallon pre-treatment tank equipped with an effluent filter, then into the Whitewater unit for biological treatment, and finally into a 500 gallon pump tank equipped with a ECOFILTER pump vault. The water was discharged into raised absorption beds, planted with native Hawaiian flora. Delta provided all tanks, equipment and controls for each system installed.

RESULT

The Whitewater unit allowed the community to upgrade its wastewater treatment systems to meet new standards of environmental and cultural stewardship. The discharge from the Whitewater units met and exceeded local regulations. The absorption beds were re-vegetated with a variety of native Hawaiian plants that provide aesthetic and educational benefits to guests.



INFILTRATOR
water technologies

4 Business Park Road, Old Saybrook, CT 06475
(800) 221-4436 • info@infiltratorwater.com