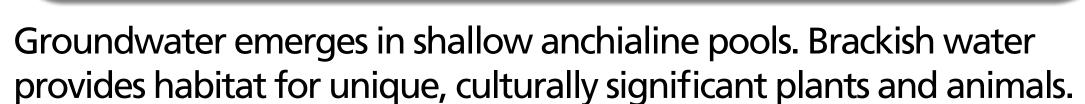
## The Groundwater Resources at Kaloko-Honokōhau National Historical Park

## What is the value of water at Kaloko-Honokōhau National Historical Park?

Kaloko-Honokōhau National Historical Park, located in north Kona, Hawai'i, contains globally rare anchialine pool habitats and significant Hawaiian cultural sites.



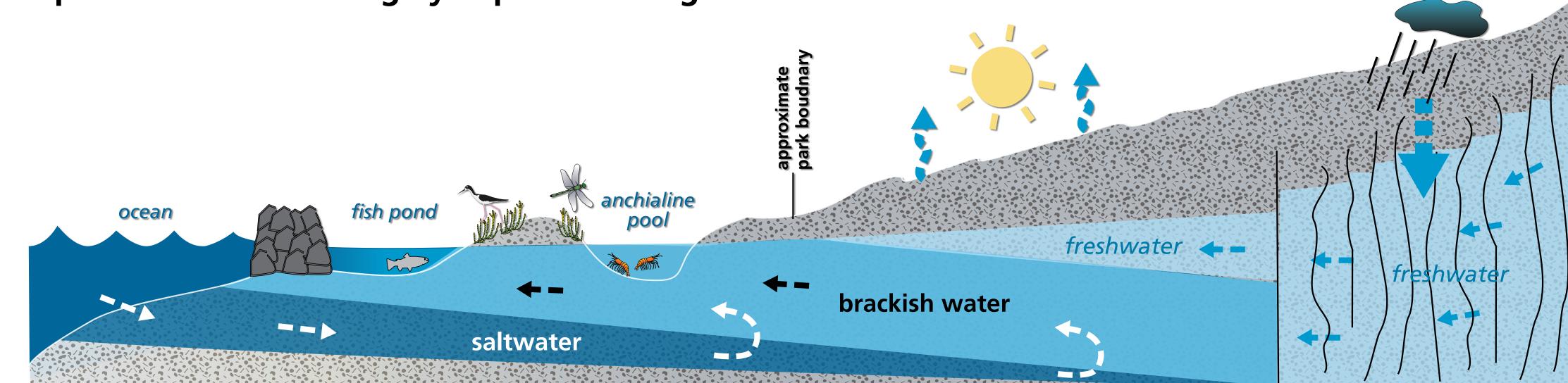




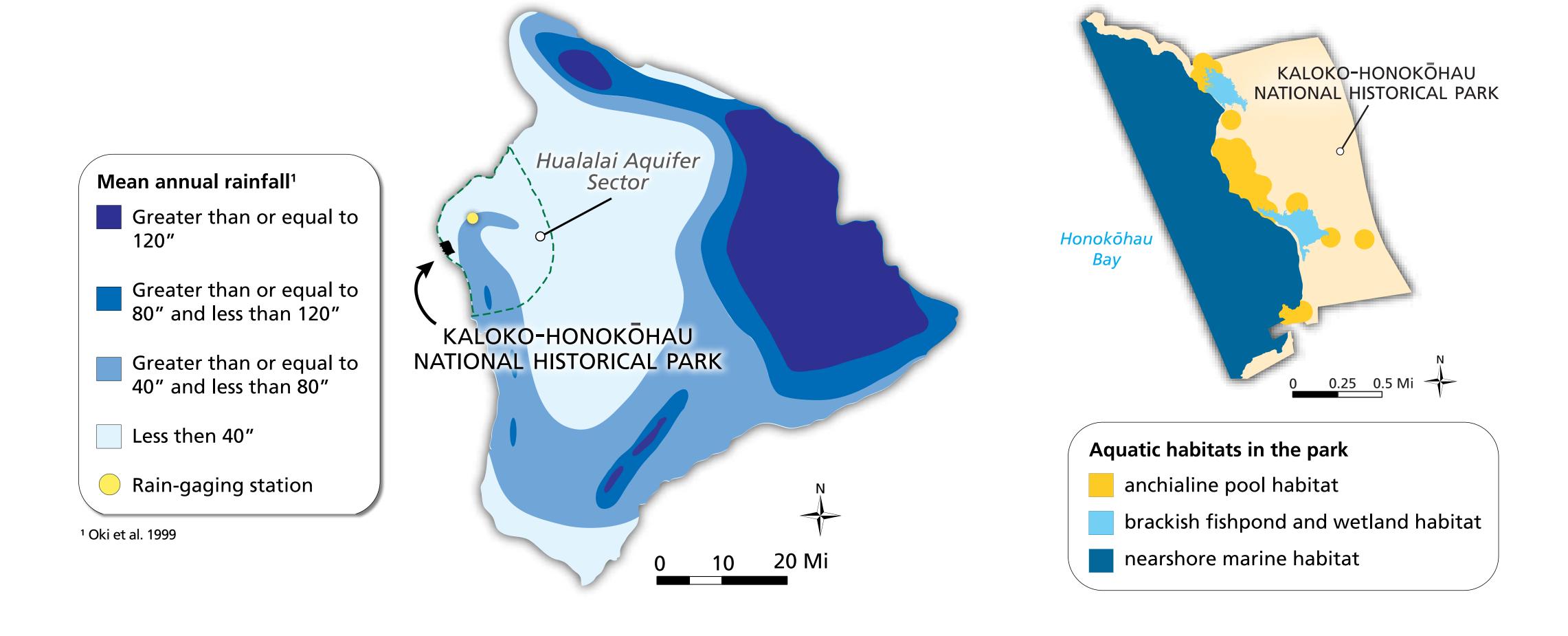
Traditional Hawaiian fishponds receive brackish water that supports the life cycle of culturally significant fish.

## How does the groundwater system work in north Kona?

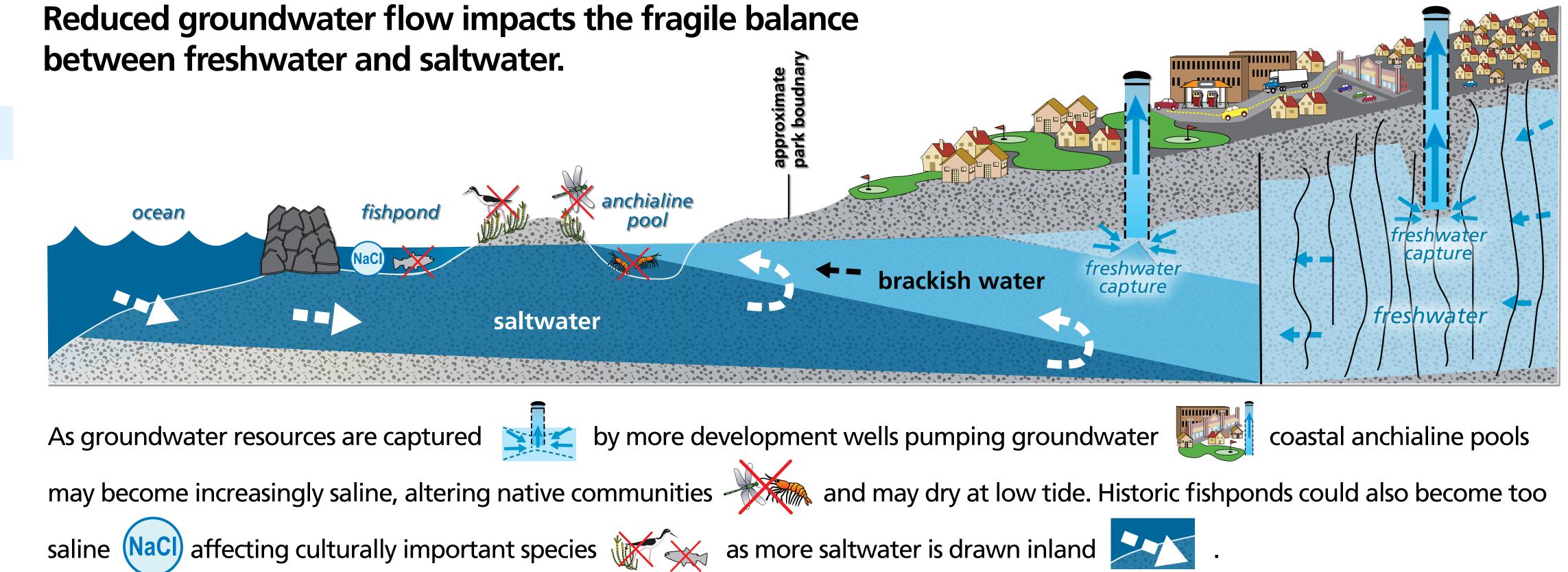
North Kona has low rainfall, dark porous soils, abundant sun, and high evaporation. As a result, aquatic resources are highly dependent on groundwater.



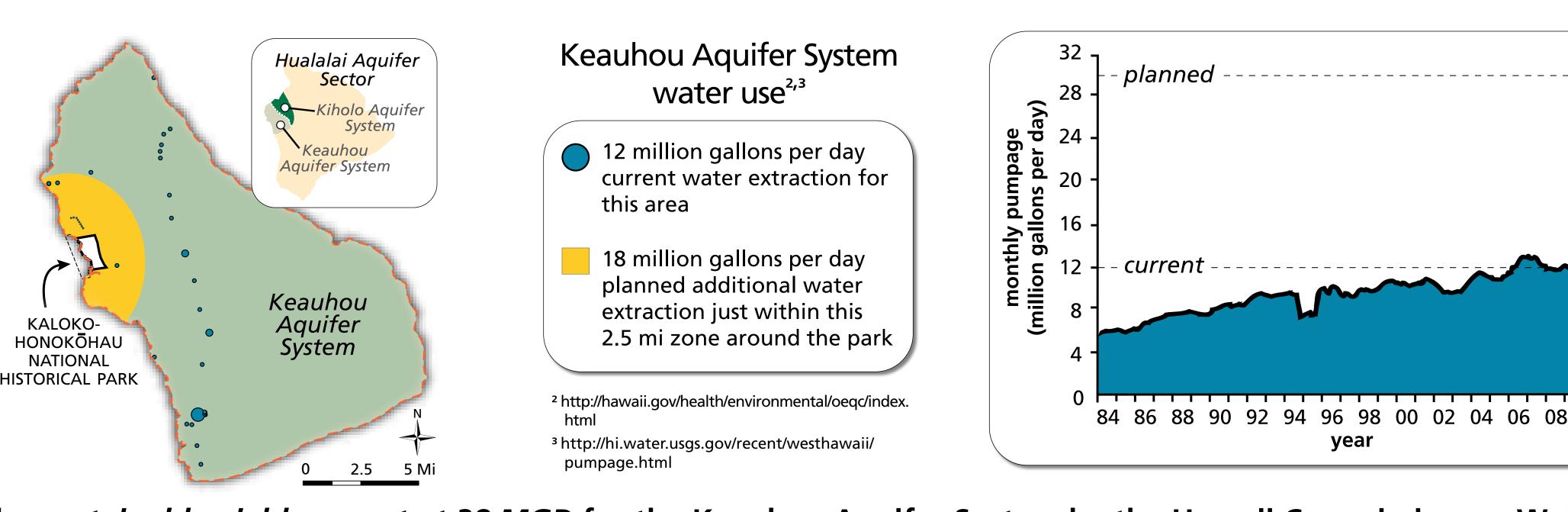
Rainfall that seeps into the soil forms a layer of fresh groundwater that floats on the layer of brackish groundwater. The brackish water emerges in low anchialine pools and seeps into the fishponds, wetlands, and nearshore marine waters.



## What is the human threat to the groundwater system in north Kona?



Planned developments, if implemented around the park, will more than double this current water extraction to 30 million gallons per day (MGD).



The sustainable yield was set at 38 MGD for the Keauhou Aquifer System by the Hawaii Commission on Water Resource Managment. However, that yield was established to protect drinking water resources only and did not consider potential ecological or cultural resource requirements.

What are the **potential consequences** of reduced groundwater flow to the natural and cultural resources of Kaloko-Honokōhau National Historical Park?

The park's ecologically fragile and culturally significant habitats may be adversely affected by excessive groundwater withdrawal in developments outside the park.







