ENVIRONMENTAL ATLAS OF ABU DHABI EMIRATE

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Explore the Environmental Atlas of Abu Dhabi Emirate and discover the unique and amazing environment of the Emirate.

WETLANDS

e Kentish Plover ingo, the Kentish t bird t The bird nest

icate eggs i

AGED

AL WATHBA – THE PINKISH LAKE

and covers an area of five square kilometres. It was formerly an area of sabkha amidst sand dunes, only flooding during scarce winter rainfall. Formally established as a protected area in 1998 by the late President, Sheikh Zayed bin Sultan Al Nahyan, it is managed by the EAD. The case for designating Al Wathha as a reserve became clearer when successive attempts of populations of Greater Flamingo (Phoenicopterus roseus) to breed there failed due to human disturbance. When a population bred successfully in 1999. this marked the first known successful breeding of Greater Flamingo in the

Al Wathba Wetland Reserve is located forty kilometres south-east of Abu Dhabi Arabian Peninsula since 1922. Today nearly half of the bird species that occur in the UAE have been observed at Al Wathba. The wetland that sustains life at Al Wathba is a consequence of a creative recycling programme. Since rainfall at Al Wathba is insufficient to maintain it as a natural wetland. treated sewage effluent is diverted to the lake. This act of human engineering has turned an area of marginal economic and environmental value into a fine

example of Abu Dhabi's 'natural wealth' and the government's desire to find

innovative ways to reuse water - perhaps its most precious natural resource.

Delicate and Balanced Chemistry – Rainfall, Alkalinity and Salinity 🔻

Little Stin

Artemia (Artemia franciscana), or brine shrimp, is a species of aquatic crustacean and a major food source for the impressive Greater Flamingo (*Phoenicopterus roseus*). It is a highly adaptive shrimp but tends to breed optimally in areas where the salinity is between 30-50 parts per thousand (*ppt*). Artemia have a complex life cycle and are essential to the sustainability of the wetland ecosystem. Without the nutritious shrimp, flamingos and other migratory birds stopping over at the wetland would be unable to obtain sufficient nourishment to continue their long and strenuous journeys. In addition to their vital role as a food source for birds, brine shrinp help clean the lake by filtering the water of contaminants such as phosphorus, nitrogen and other chemicals. By maintaining the delicate chemistry of the lake, artemia keep the ecosystem healthy

Cooler water temp Higher coygen levels Satinity level below 25

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tant physical evaporation causes the lake's salinity to life cycle, increase. Mormally, at salinity levels of less all occurs in than solution of the second seco

The Importance of Salinity >

200 breeding pairs thba is one of the tru

Importance of the Wetland to Desert Biodiversity 🔺

The existence of perennial surface water addition to bird life, the area also supports A II within a supports a remarkable many other fature species including the diversity of species both resident and Red Fox, Dhub and Monitor Lizards, Cape imgratory, The Greater Famingo Desert Hare and numerous small rodents. (Phoenicogeters: roseus), Blackwinged Still The number and variety of plant and (Himantopus limitantopus) and Ped Avocet a minal species thrition is such as a voisettal are of particular small area endows AL Wathba with an interest to hildwatchers and scientists. In general kinetical kinet nterest to birdwatchers and scientists. In especially high conservation value

inds. It is the