CLASSIFYING LIFE AT GREAT SALT LAKE

EUKARYA
Uncellular
Have a nucleus and membrane-bound organelles

ARCHAEA
Uncellular or multicellular
No nucleus (prokaryote) 
Many live in extreme environments. Otherwise known as "extremophiles" (heat, low pH, low oxygen).

BACTERIA
Uncellular
No nucleus (prokaryote) 
Thick, rigid cell walls containing peptidoglycan

Genetically, more closely related to eukaryote than bacteria