

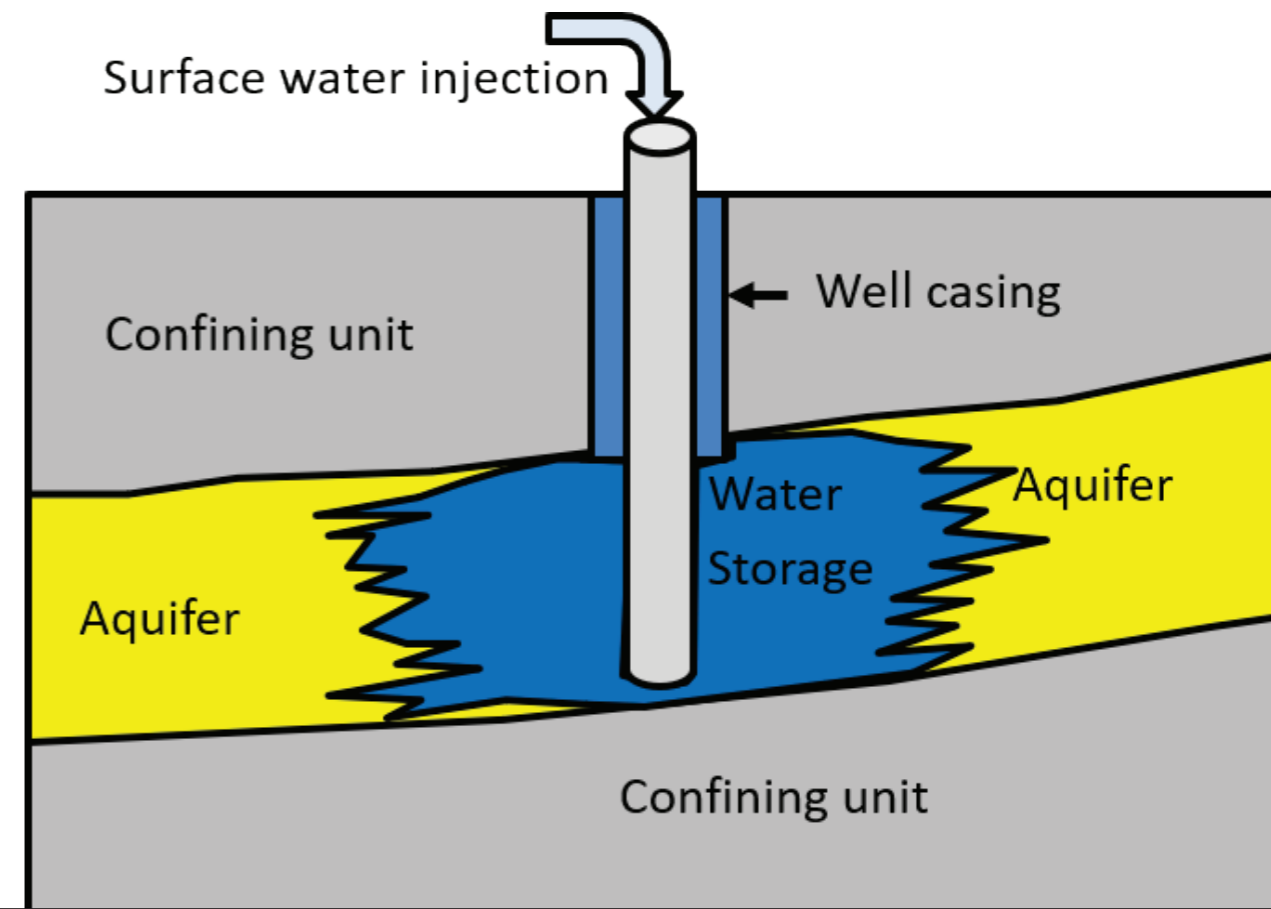
AQUIFER STORAGE AND RECOVERY



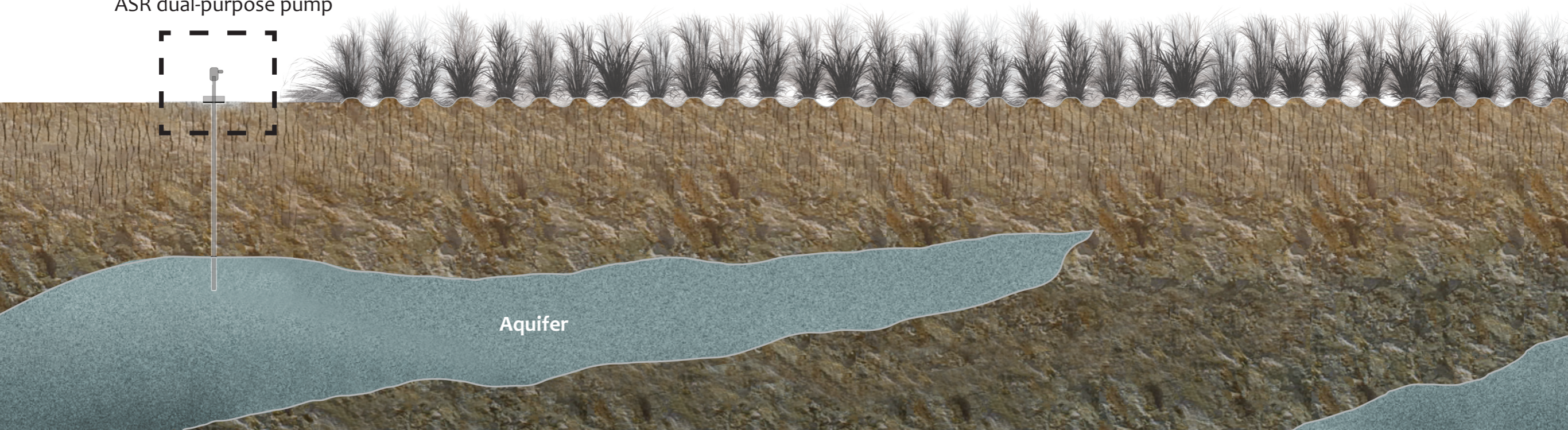
UNIVERSITY of
LOUISIANA
LAFAYETTE



- A water resource that goes unnoticed and overused is the pumping of groundwater from the underground water storage known as an aquifer.
- The over drafting of aquifer systems could lead to saltwater migration into the water storage and land subsidence.
- Louisiana Sea Grant recently funded a UL research team to begin the investigation of implementing an innovative and sustainable water management system known as Aquifer Storage and Recovery (ASR).
- An ASR system consists of a dual-purpose well that can inject treated surface water back into the underground aquifer and replenish its resources to continue to act as a barrier to coastal ecological issues



ASR dual-purpose pump



THE RIPPLE EFFECT

Community Cultivated | Regionally Replicated

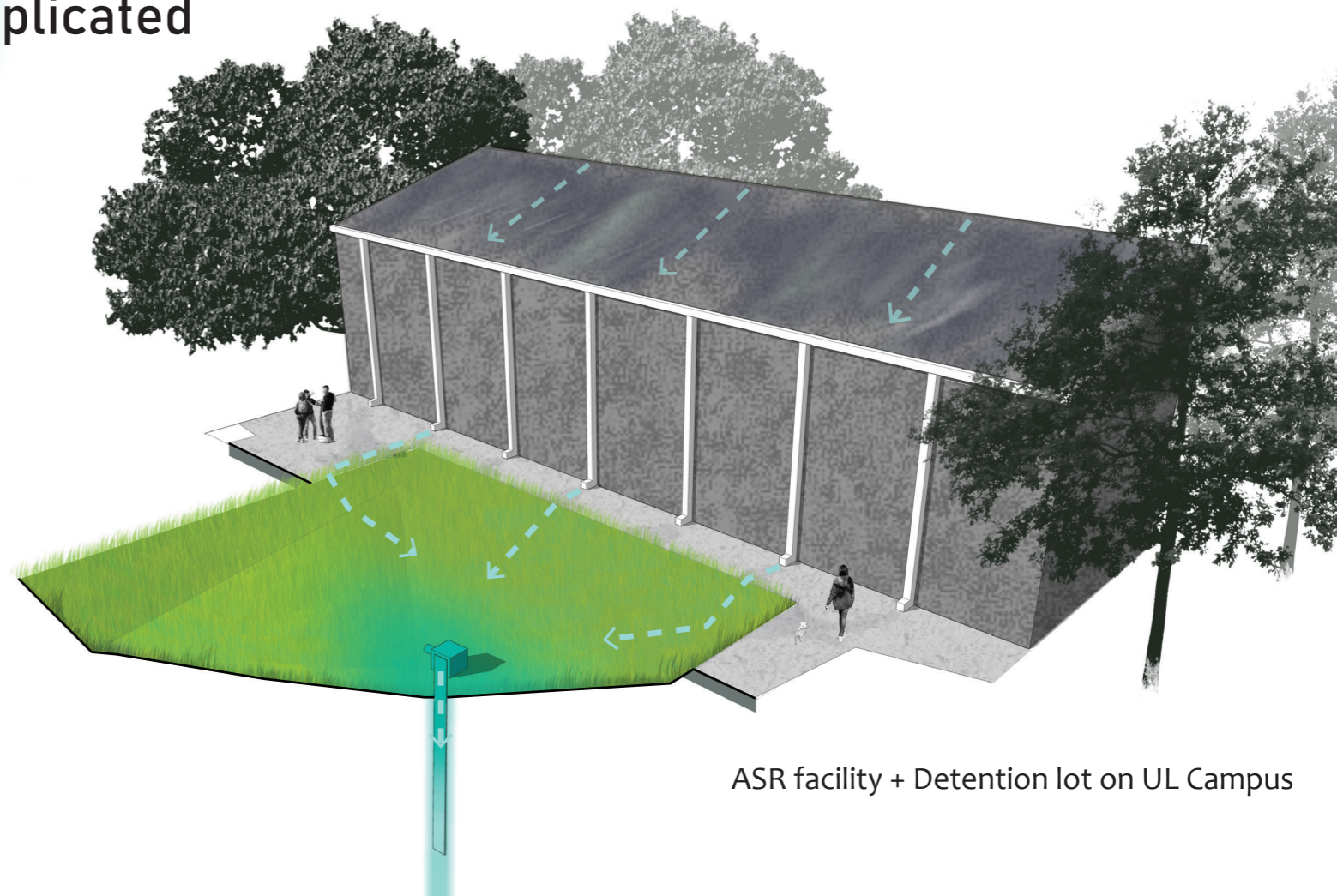


- EPA RainWorks Challenge is a nationwide competition for the design process and investigation of implementing sustainable “green infrastructure” onto college and university campuses.

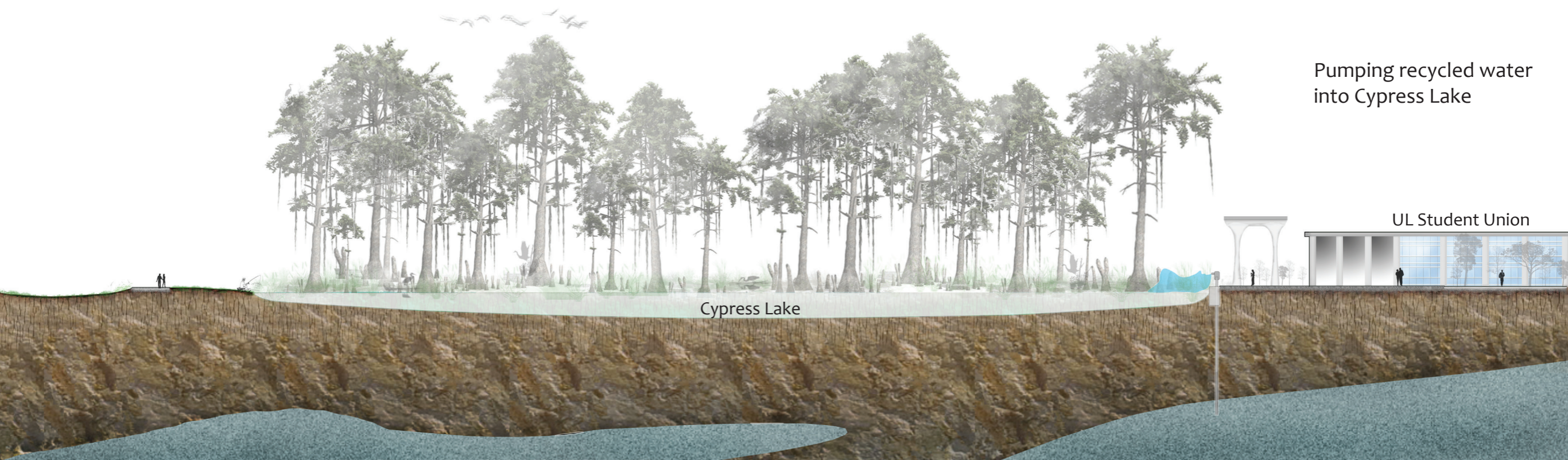
- A UL Stormwater Masterplan was developed through a collaborative project between the UL Office of Sustainability and the UL Sea Grant ASR research team.

- An ASR facility is included into the masterplan to aid in the capturing and cleaning of excess stormwater and inject it into the underground aquifer for the benefit of recycling water usage on campus.

- The addition of the facility would help create an awareness and bring an educational experience to UL campus about new sustainable water management strategies



ASR facility + Detention lot on UL Campus



Pumping recycled water into Cypress Lake

UL Student Union

Cypress Lake