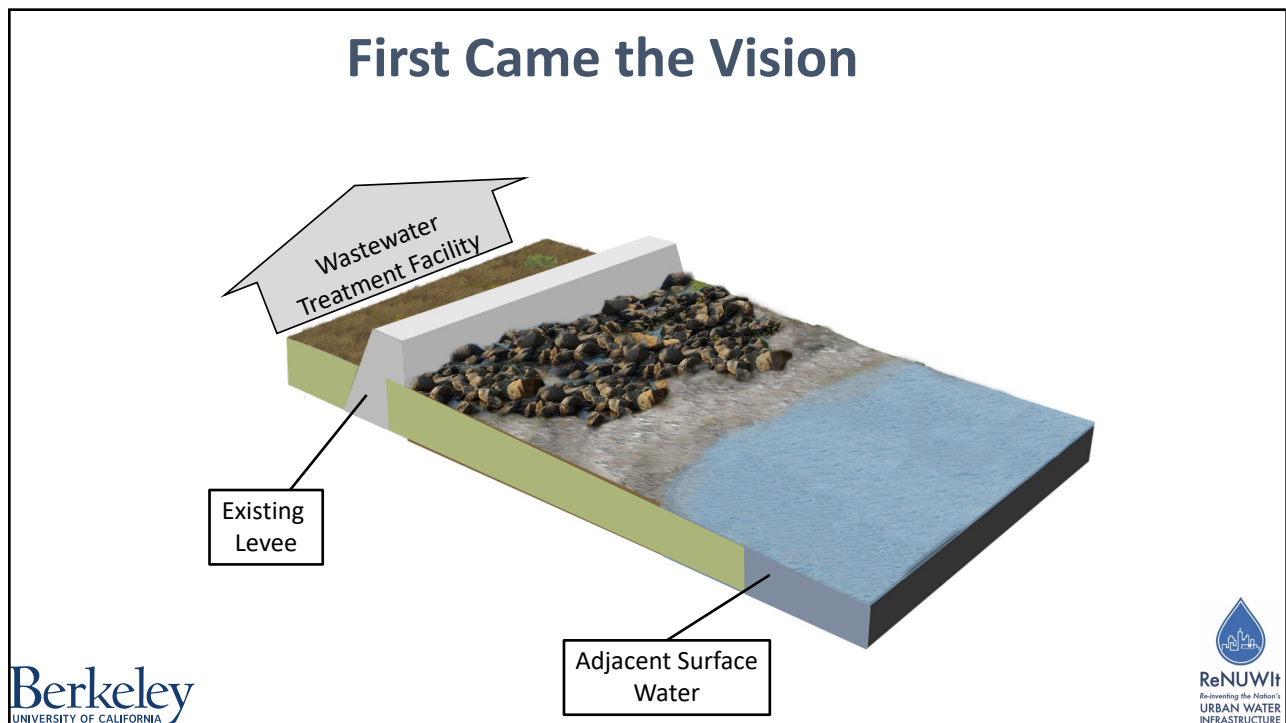
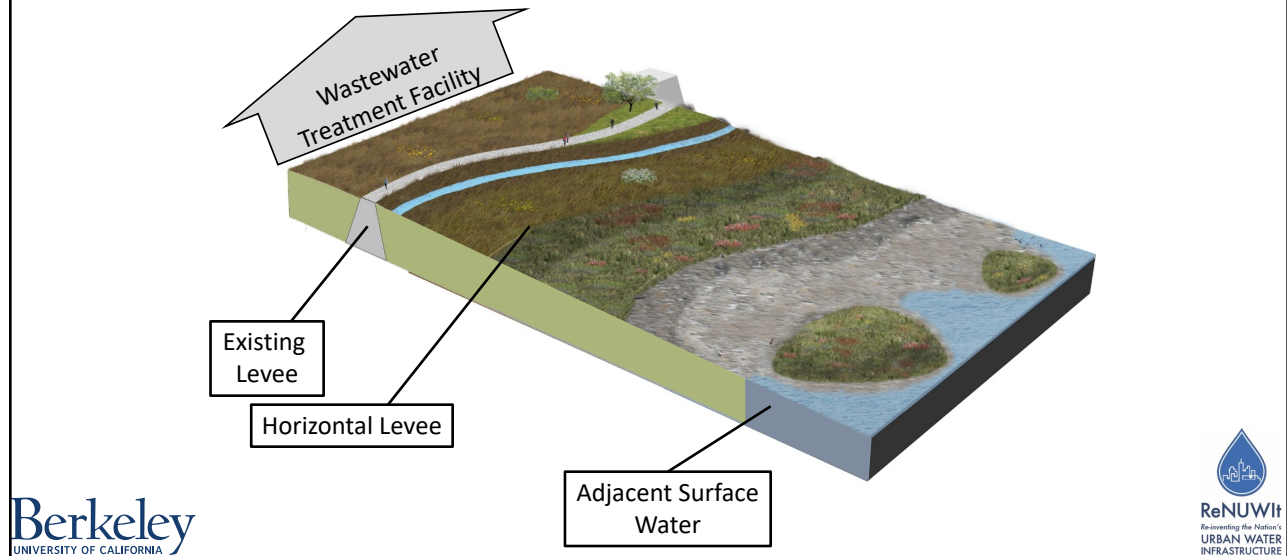


1



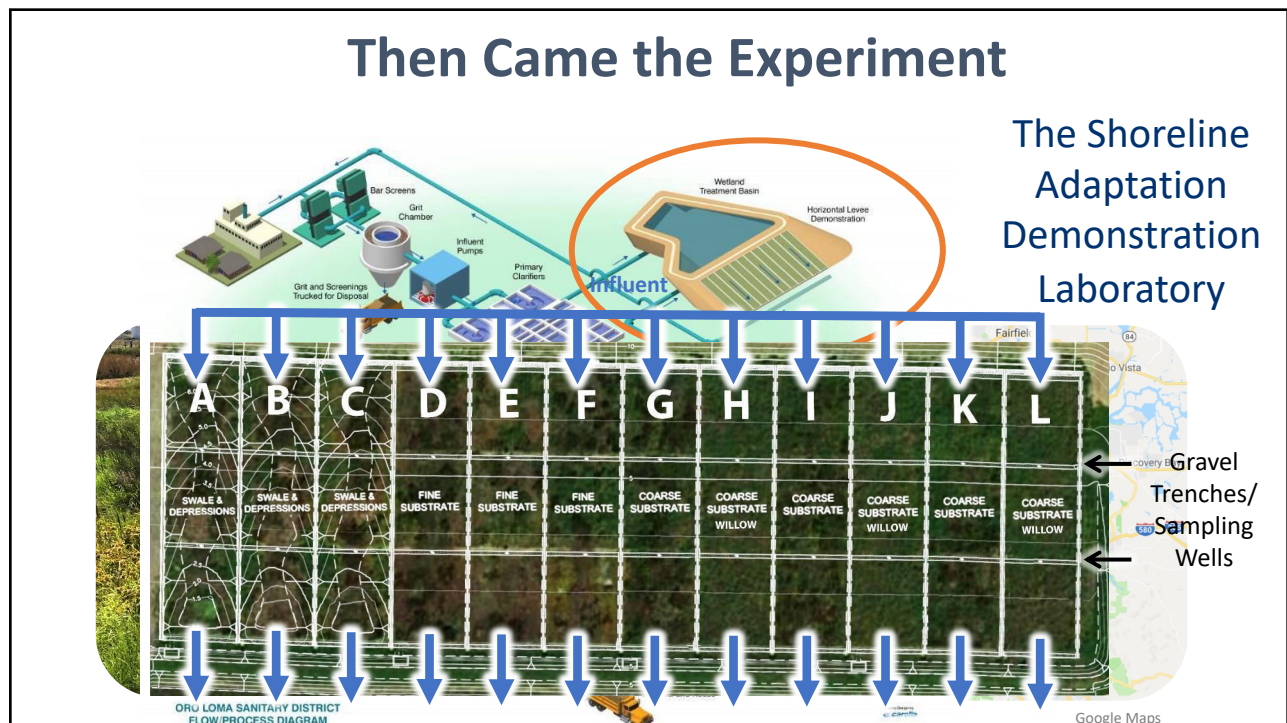
2

## First Came the Vision



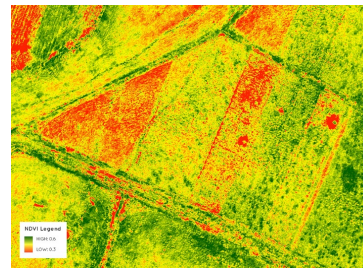
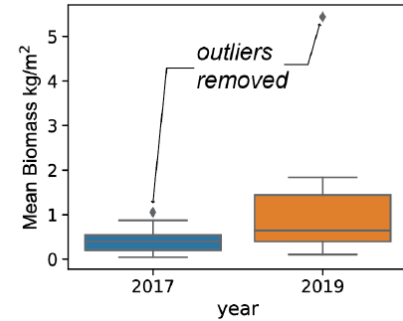
3

## Then Came the Experiment



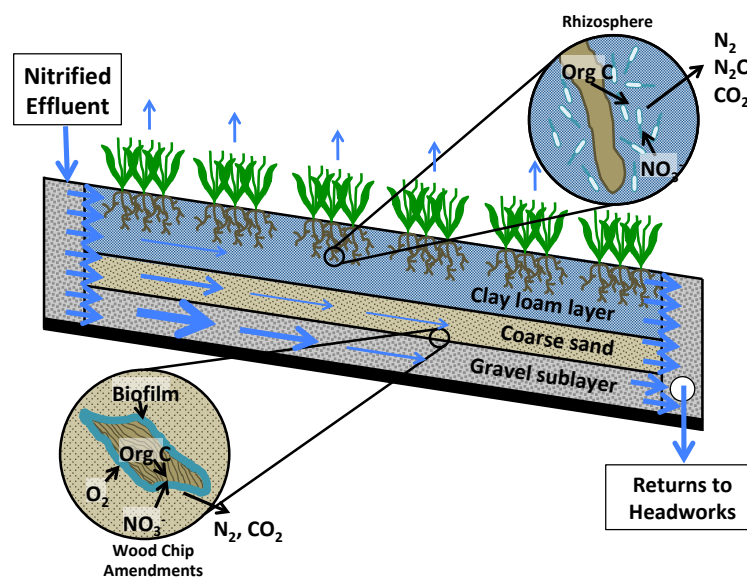
4

## Establishing the Plant Community



5

## Subsurface Water Treatment



6

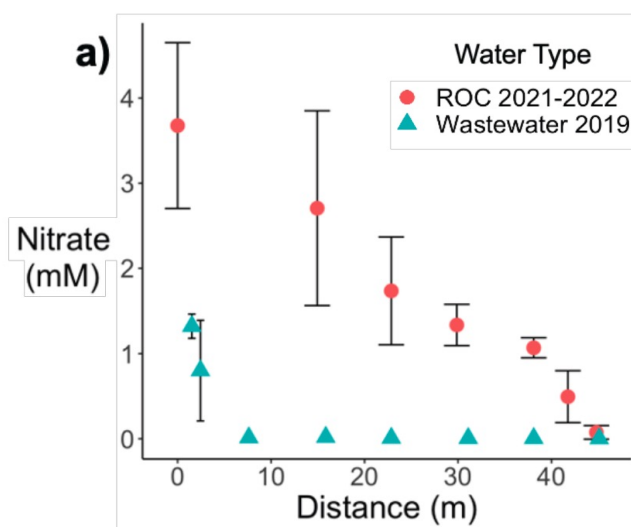
## UC Berkeley Partnership With Valley Water



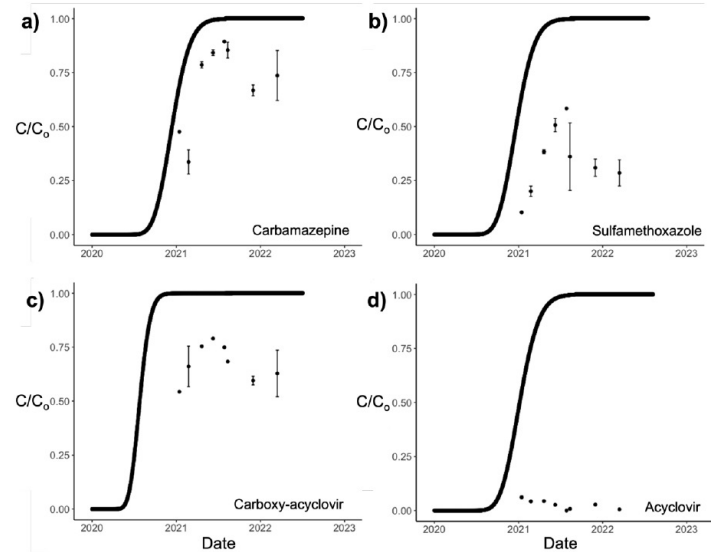
- Open Water Unit Process Wetland built at Silicon Valley Advanced Water Purification Plant in 2017
- Partial removal of nitrate and organics (2018-2019)
- Attempts to increase nitrate removal by wood chip addition failed

## RO Concentrate Treatment: Nitrate

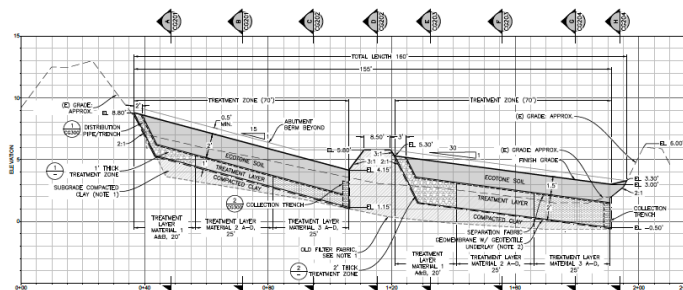
ROC arriving at Oro Loma



## RO Concentrate Treatment: Organics



## Redesign



### Improving System Performance

- Thicker treatment layer
- Lower slope
- Geomedia addition

## Next Steps

- Assess the impact of slope and treatment layer thickness on system performance
- Evaluate fate of trace elements (e.g., Cu, Ni) and PFAS in the subsurface
- Identify approaches for increasing flow and reducing construction costs

