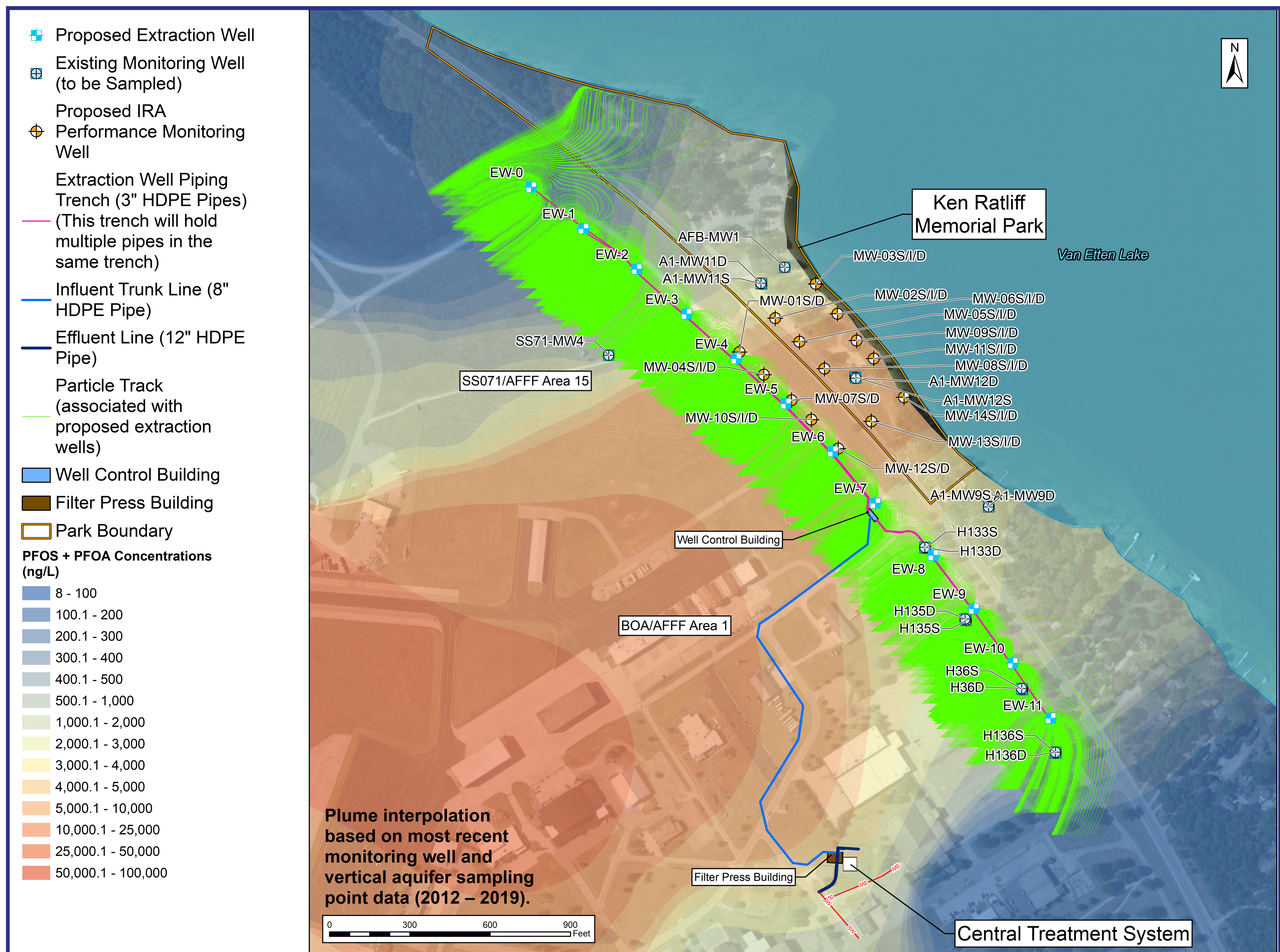
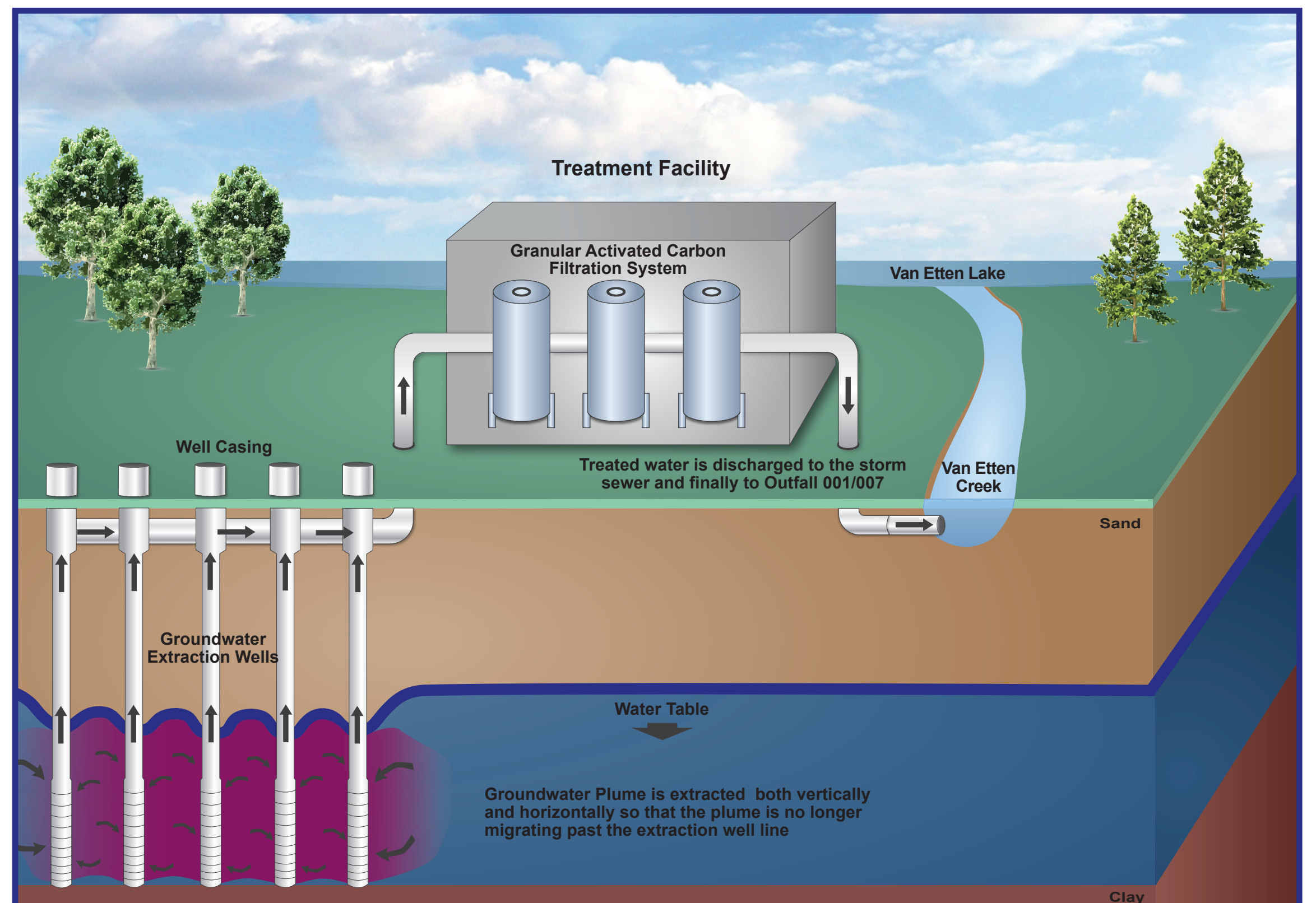


# VAN ETTEN LAKE AT KEN RATLIFF MEMORIAL PARK HYDRAULIC CONTROL SYSTEM

## Groundwater Modeling and Van Etten Extraction Well Locations

- Existing numerical flow model has been continuously updated since developed in 1983 by the United States Geological Survey
- Current data indicate hydraulic conductivity values (K) are in the range of 81 ft/day near the lake and up to 145 ft/day in some upgradient locations
- Modeling runs were performed evaluating the effects of both values
- Groundwater modeling results indicate that a line of extraction wells spaced approximately 250 feet apart should reduce mass flux discharge into Van Etten Lake near Ken Ratliff Memorial Park



The green lines (particle tracks) represent how contaminated groundwater will be captured by the extraction wells at the design pumping rates.