

Flood Risk Modeling*



*According to CPRA modeling for a 100-yr storm in 2067

< 3 ft.

3 to 6 ft. or within the 100 yr floodplain

Sources: CPRA flood modeling

FEMA DFIRM 100 yr floodplain

> 6 ft.

Pre-Development Hydrology

Vegetation absorbs much of the stormwater

Floodplain adapted to inundation from water



Elevation





Current Development Pattern

Decrease in vegetation increases storm runoff

Flooding events increase in volume and frequency

Soils



Highly Organic High Subsidence Potential Moderately Organic Moderate Subsidence Potential High Plasticity Silt and Clay Shrink and Swell Potential Low Plasticity Silt and Clay, Sand Stable

Sources: USDA soil map



Development in floodplain

Proposed Development Pattern



Development adapts to flooding and sea level rise