

Groundswell covers the lower western Peninsula (red outline on the maps).

- It is the most exposed area of the Old and Historic District to tidal flood, projected sea level rise and flood surge during natural event such as storms and hurricanes.
- It faces particular challenges as a result of its aging infrastructure and lack of maintenance including the Low battery seawall built in 1910, a drainage and tidal drain system dating from 1850 & 1878.
- Delays in implementing planned repairs to those infrastructures and flood mitigation projects such as installation of pump stations are impacting the area (1984 plan.)
- It overlaps 2 historic neighborhoods Harleston Village and Charlestowne Neighborhood Association.

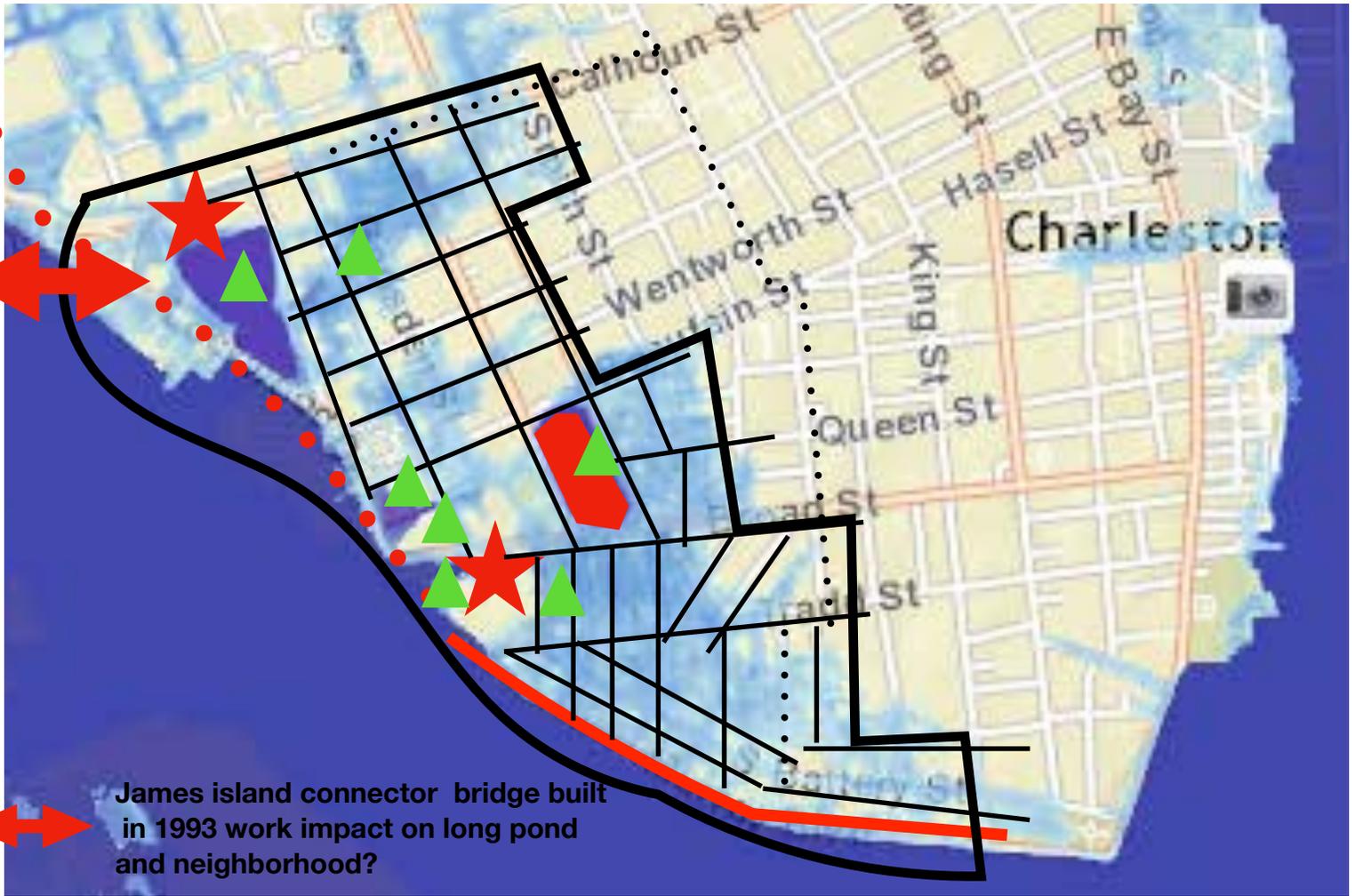


**Map from NOAA
Office for Coastal
Management**

DARK BLUE:
A high tide of 7 feet (2.1 meters) was mapped as the threshold for minimal tidal flooding.

LIGHT BLUE:
An additional 1.6 feet (.5 meters) of sea level, a conservative estimate for the next 100 years, was added for comparison

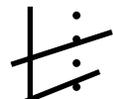
Groundswell Infrastructure Diagram Issue MAP



James island connector bridge built in 1993 work impact on long pond and neighborhood?



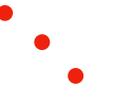
1. Groundswell area, mostly land fill



2. Obsolete drainage & tidal drains below street network (1850 ,1878, 1950), irregular maintenance, broken in many places and needs conditions assessment.



3. Low battery Seawall built 1910 in disrepair, proposed 2004 repairs/wall raising still in planning stage, 10 to 15 year implementation unrealistic needs to speed up.



4. Seawall extension from Coast Guard to Hampton Park planned (1911) but never built, land behind was filled and developed but without promised protection.



5. Pump Stations approximate locations proposed in 1984 but never built /still in planning stage/ no funding/ stormwater maps not updated since 1984



6. Colonial Lake improvement completed 2014 flood impact unknown, it is no longer a tidal pond and its engineering work needs to be assessed.



7. Green features/ flood buffer (tidal ponds, marsh & undeveloped land such as St. Mary's Field, Horse lot, Moultrie Park) should be preserved/flood mitigation.

Groundswell: We Can Wade No More