

Upper Columbia River Project Beach Program



Meters

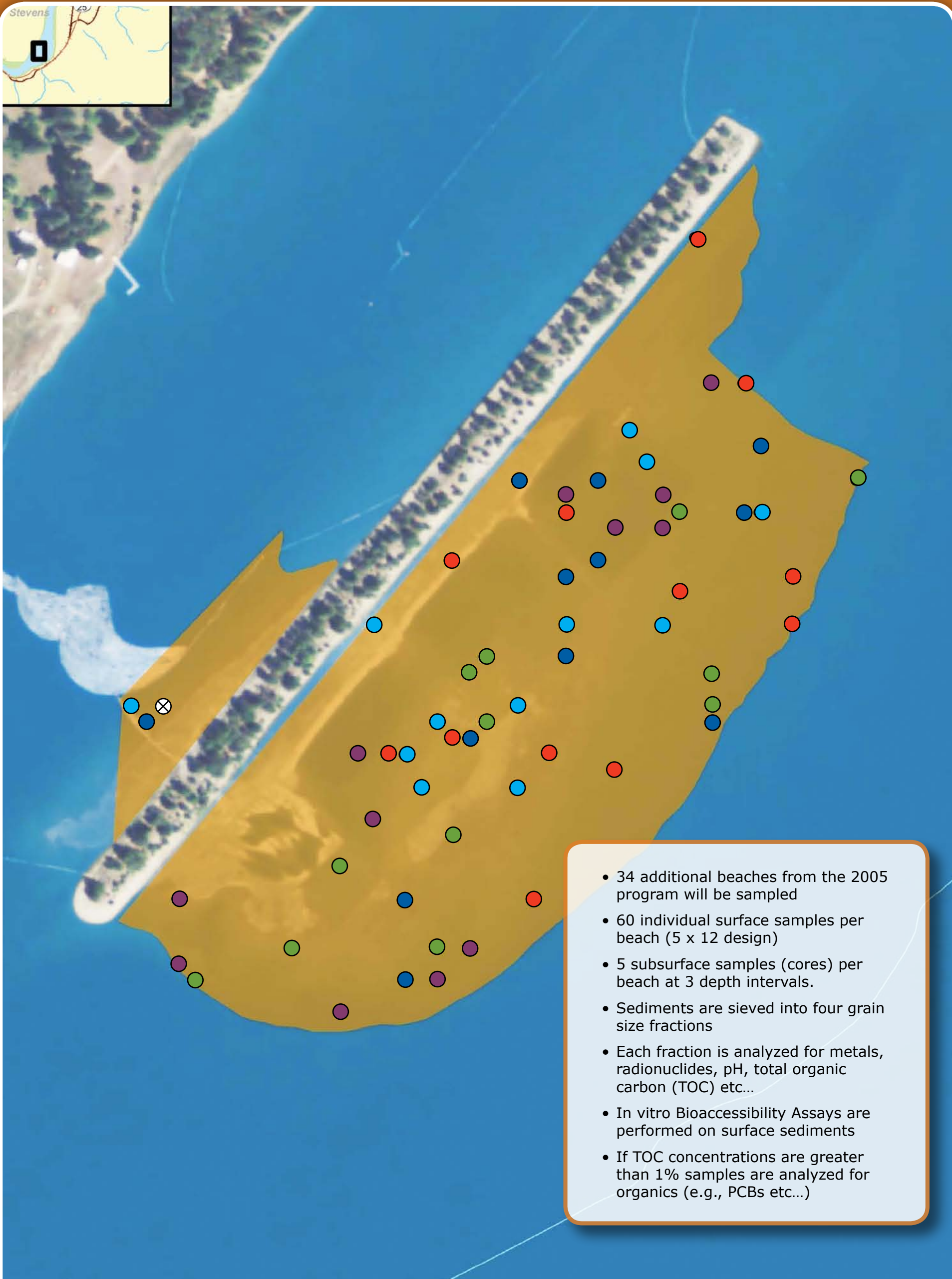


Feet



- Beaches Sampled in 2009
- Beaches Sampled in 2010
- Beaches Rejected for Lack of Fine Sediment
- Beaches for 2011
- River Reach Delineations (USGS)
- Bathymetry Elevation (1949 Survey) 1250 ft AMSL

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- 34 additional beaches from the 2005 program will be sampled
- 60 individual surface samples per beach (5 x 12 design)
- 5 subsurface samples (cores) per beach at 3 depth intervals.
- Sediments are sieved into four grain size fractions
- Each fraction is analyzed for metals, radionuclides, pH, total organic carbon (TOC) etc...
- In vitro Bioaccessibility Assays are performed on surface sediments
- If TOC concentrations are greater than 1% samples are analyzed for organics (e.g., PCBs etc...)

CHINA BEND - ACTUAL 2010 BEACH SEDIMENT SAMPLING STATIONS

NOTE

The sample grid spacing is 10 meters.
 The total area of the Sampling Area is 111239.8 square meters or 1197375.2 square feet.



SAMPLE LOCATIONS

- Composite A
- Composite B
- Composite C
- Composite D
- Composite E
- ⊗ Surface Rejected (Mismatched Location)
- Expected Exposed Beach

Bathymetry Elevation (1949 Survey)

— 1250 ft AMSL