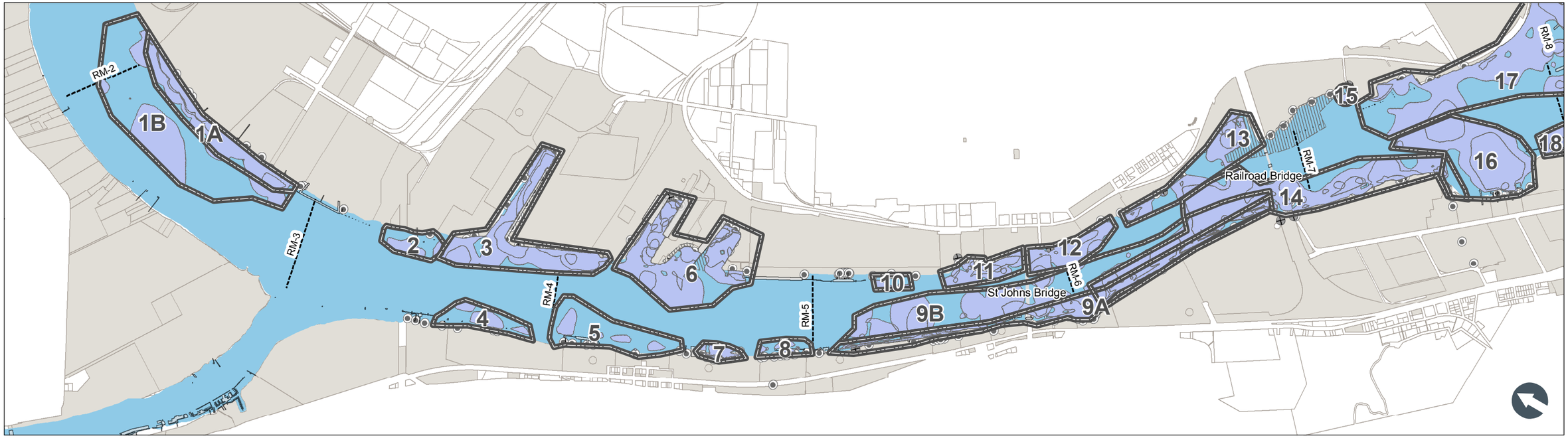
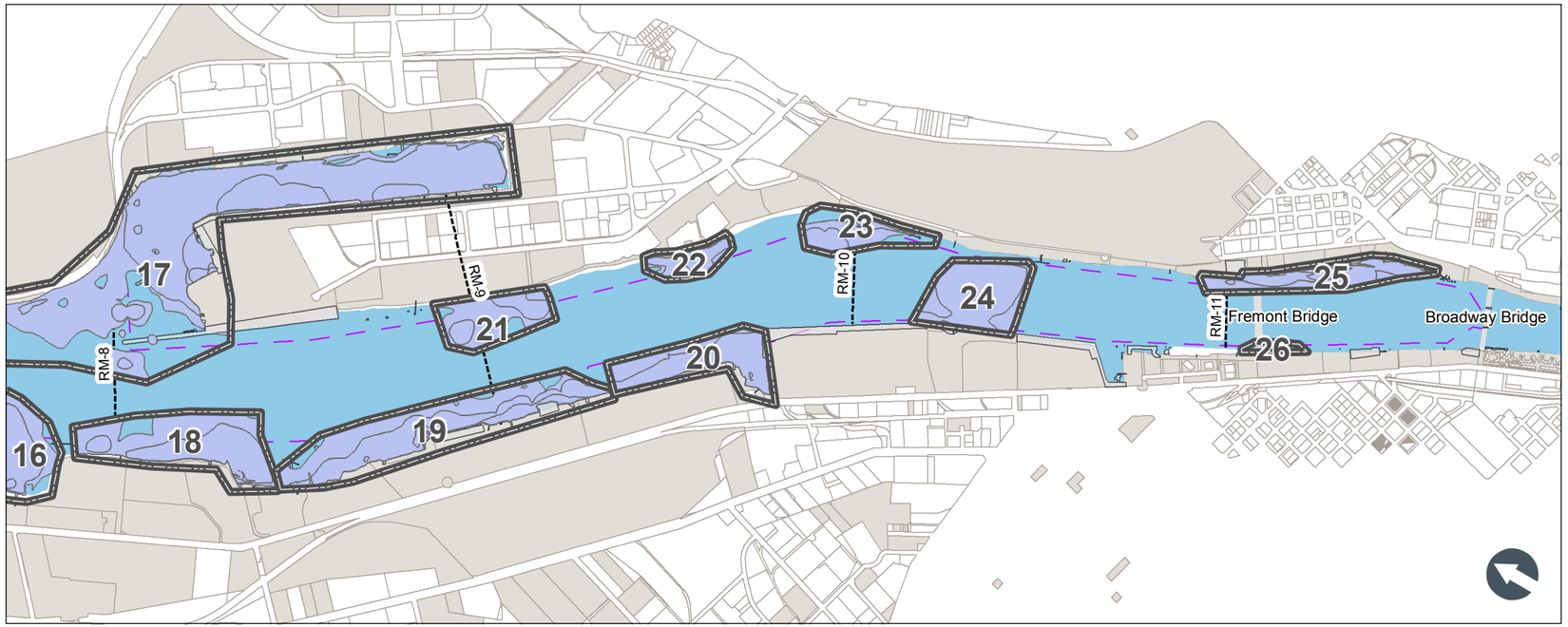




Draft AOPCs for Portland Harbor Site

June 2009

River Mile 1.9 to 11.8

LEGEND

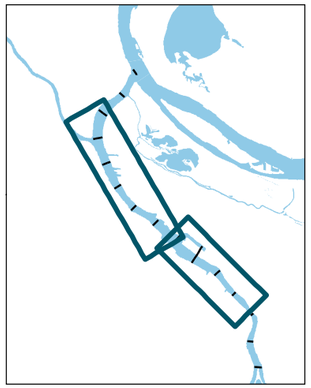
LWG AOPCs_revised 060509

EPA AOPCs 051409

Feet

0 1,000 2,000 3,000 4,000

DRAFT



AOPC DEVELOPMENT NOTES

AOPCs are based on the mapping of surface sediment chemistry against the following lines of evidence:

1. Recreational small mouth bass fish consumption preliminary remediation goal (PRG) for total PCBs at a 10-4 cancer risk level using the by-river mile hill topping approach. The PRG equates to 29.54 ug/kg dry weight total PCBs achieved on a Surface-weighted Average Concentration (SWAC) basis by river mile. Use a replacement value equal to the PRG in the hill topping routine.
2. Site-wide hilltopping approach that results in a site-wide target SWAC of 17 ug/kg total PCBs, which represents one estimate of background. Use 17 ug/kg as the replacement value in the hill topping routine.
3. Tribal fisher direct contact PRG for benzo(a)pyrene at a 10-6 cancer risk; hill topping by direct contact sub areas. This PRG equates to a benzo(a)pyrene concentration of 423.25 ug/kg dry weight. Use a replacement value equal to the PRG in the hill topping routine.
4. “Common” Probable Benthic Risk Areas, which are the areas that both EPA and LWG currently agree have benthic risks.

It should be noted that areas outside of the individual AOPCs identified on this figure also pose an unacceptable, although generally lower, risk to human health and the environment throughout the current study area. These areas will be evaluated as part of a site-wide AOPC.

AOPCs were identified prior to completion of the baseline human health and ecological risk assessments and represent a starting point for the Portland Harbor Feasibility Study (FS). AOPCs may expand or contract based on the consideration of additional site information and the results of the baseline human health and ecological risk assessments.