

Technical WorkGroup Meeting

Fish Distribution and Abundance Sampling – Middle River

8 February 2013

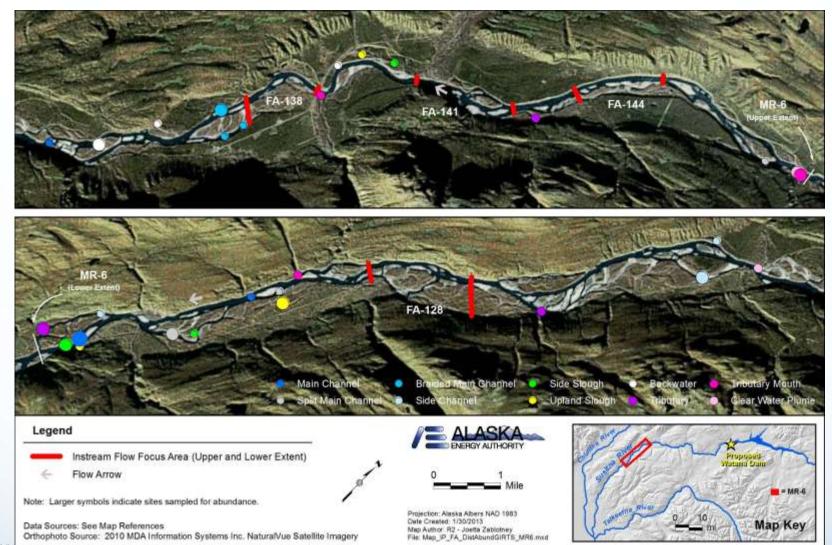
Prepared by R2 Resource Consultants

- Using HDR habitat mapping
- Probability sample by habitat type
 - Within Geomorphic Reach targets:
 - Focus Areas: 3 samples for abundance
 - Outside of Focus Areas: 3 distribution, 1 abundance

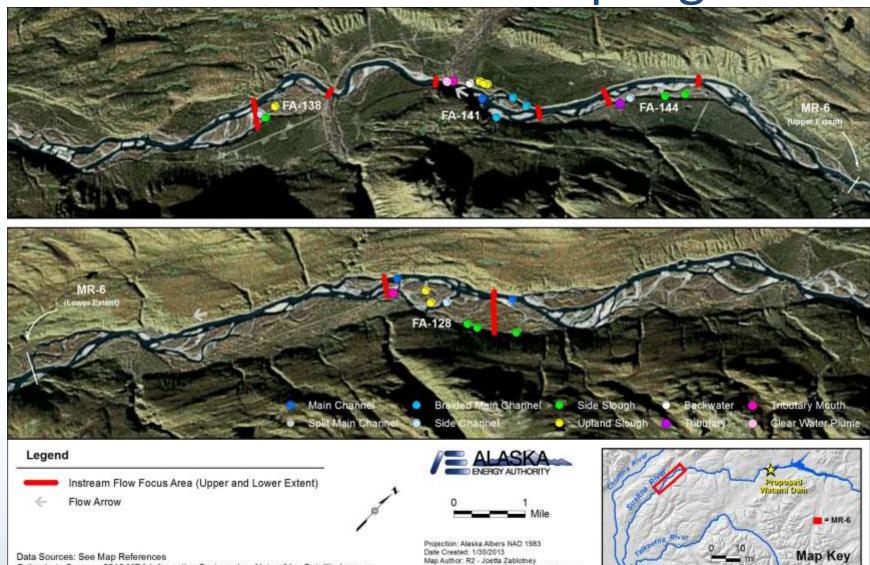
- Mapped linear habitat types:
 - Single Main Channel
 - Split Main Channel
 - Braided Main Channel
 - Side Channel
 - Upland Slough with Beaver Complex
 - Upland Slough without Beaver Complex
 - Side Slough with Beaver Complex
 - Side Slough without Beaver Complex
 - Tributaries

- Linear habitat types split into 40 m sampling units with spatial locations
- GRTS sampler used to select spatially-balanced random sample
 - Missing samples do not compromise coverage

- Point or Polygon habitat types:
 - Backwaters
 - Tributary mouths
 - Clear water plumes
- If ≤ 3 , sample all of them
- If > 3, GRTS sample



SUSITNA-WATANA HTDKO Clean, remade energy for the next 100 years.



File Map IP FA DistAbundGIRTS MR8x.mxd

Orthophoto Source: 2010 MDA Information Systems Inc. Natural/Vue Satellite Imagery