

April 5, 2017

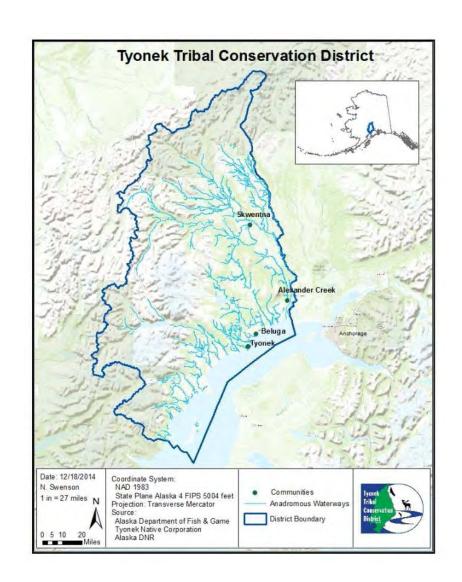
Kenai Peninsula FHP Science & Conservation Symposium



TTCD Background

Mission: To conserve, enhance, and encourage the wise use of natural resources.

TTCD address local natural resource issues through community-driven conservation.





TTCD Addresses Community Needs











Programs

- Habitat Monitoring & Restoration
- Tyonek Grown
- Technical Assistance
- Tyonek Youth Conservation Science (TYCS)









Habitat Monitoring & Restoration Program





Goal: Monitor and restore fish and wildlife habitat.

Fish passage restoration



Watershed monitoring



Waste removal



Invasive species control

KPFHP Supported Project: Old Tyonek Creek Culvert Replacement



2 5' culverts

- Undersized, perched
- Blocking fish habitat
- Washed out in 2012 and 2013.

Old Tyonek Creek Culvert Replacement

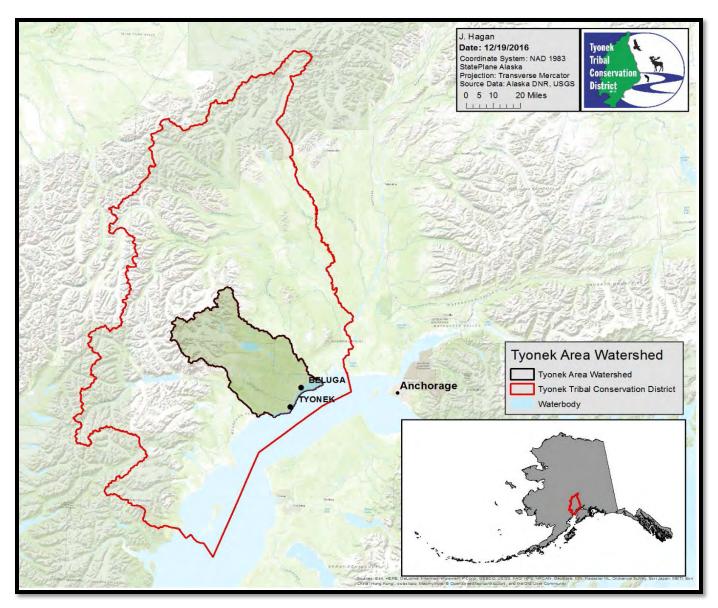




- Installed 28' wide, 13' high steel plate bottomless culvert
- \$1.13 Million Project
- 10.45 miles additional habitat now open to salmon

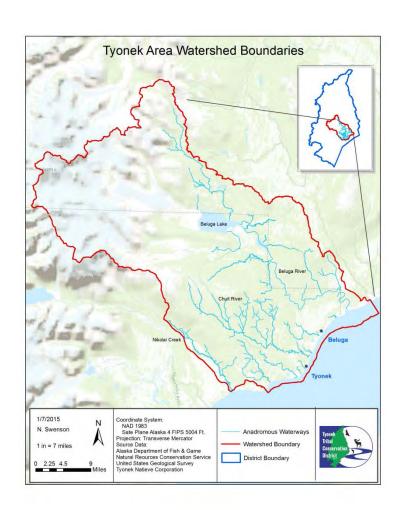


Tyonek Area Watershed Action Plan



Project Objectives

- Monitor the overall health of the Tyonek Area Watershed
- Identify current and future threats to the health of the Tyonek Area Watershed
- Work with landowners to address current watershed issues
- Develop best practices to maintain watershed health



Tyonek Area Watershed Action Plan

- Community meetings held in Tyonek and Beluga
- Community concerns:
 - Water quality
 - Invasive species
 - Healthy fish populations
- Established Scientific Advisory Committee





Tyonek Area Watershed Action Plan: Issues Identified

- Invasive species (plants & pike)
- Fish population, passage
- Water quality and waste management









Invasive Plants: Monitoring and Issues Addressed

- Conducted annual plant surveys since 2014
- Control efforts
 - Common tansy removal
 - Orange hawkweed removal
- Future plans: continue annual surveys





Invasive Pike: Monitoring and Issues Addressed

- Held 2 pike derbies in 2015 and 2 in 2016
 - 2015: removed 85 pike
 - 2016: removed 181 pike
- Will hold May derby in 2017
- Netting scheduled for June







Fish Population & Passage: Monitoring

- Implemented annual monitoring of juvenile salmon in two creeks
- Implemented annual spawning ground surveys in Indian Creek, site of 2017 culvert replacements





Fish Passage: Issues Addressed

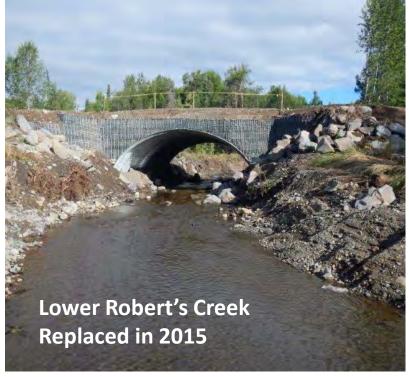
Opened >20 mi salmon habitat to date

Developed a 5 year culvert replacement plan

Working with landowners and stakeholders to

prevent future barriers





Water Quality: Monitoring and Issues Addressed

- Two years of stream temperature monitoring and basic water quality monitoring at 5 sites
- Developing methods to monitor for pollutants
- Lead battery backhaul and overall waste management





Tyonek Area Watershed Action Plan: 2017 Plans

- Continue to collect data on:
 - stream temperatures,
 - fish populations,
 - invasive species
- Complete 2 culvert replacements
- 2nd year of herbicide treatment on invasive plant infestation
- Pike derby and netting
- Solid waste backhaul, including lead batteries



Contact Information

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Link to Tyonek Area Watershed Action Plan: http://ttcd.org/programs/fish-passage-and-habitat-program/tyonek-area-watershed-action-plan/

