Teanaway Community Forest: Habitat Restoration and Grazing

Presentation to

Teanaway Advisory Committee: April 16th, 2020

WDFW, YKFP, MCF, WDNR

Aquatic Restoration and Grazing management

- Where we've been
- Where we're going
- 10 Minutes!

MFT & WFT 2021-23

TEANAWAY COMMUNITY FOREST AQUATIC RESTORATION

2020

North Fork Teanaway River

Teanaway River

N

0 1 2 4 Miles

Legend

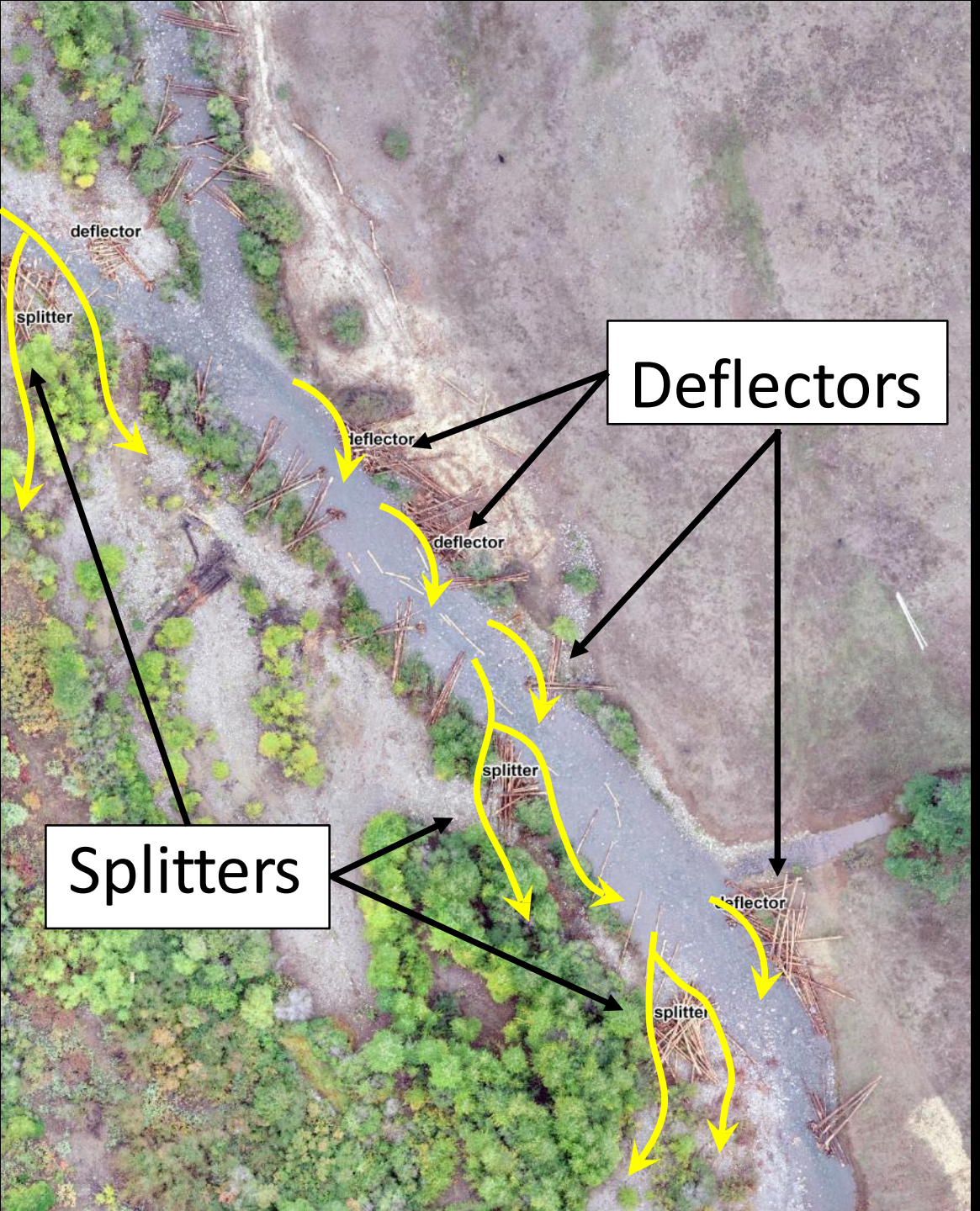
- 2020 WORK PROPOSED
- 2021 BIENNIUM
- PRIORITY TRIBUTARY WORK COMPLETE
- 2019 NF TEANAWAY WORK COMPLETE

FISHERIES YKFP YAKAMA NATION

Mid-Columbia FISHERIES ENHANCEMENT GROUP

2019 North Fork Teanaway Large Wood Additions

Wood Trapping Structures



Splitter & Deflector Log Jams

Helicopter Placed Log Jams

3,438,500 POUNDS OF WOODY MATERIALS PLACED AND STAGED WITH HELICOPTER OVER 25.4 HOURS


Beaver Activity
~1 week!

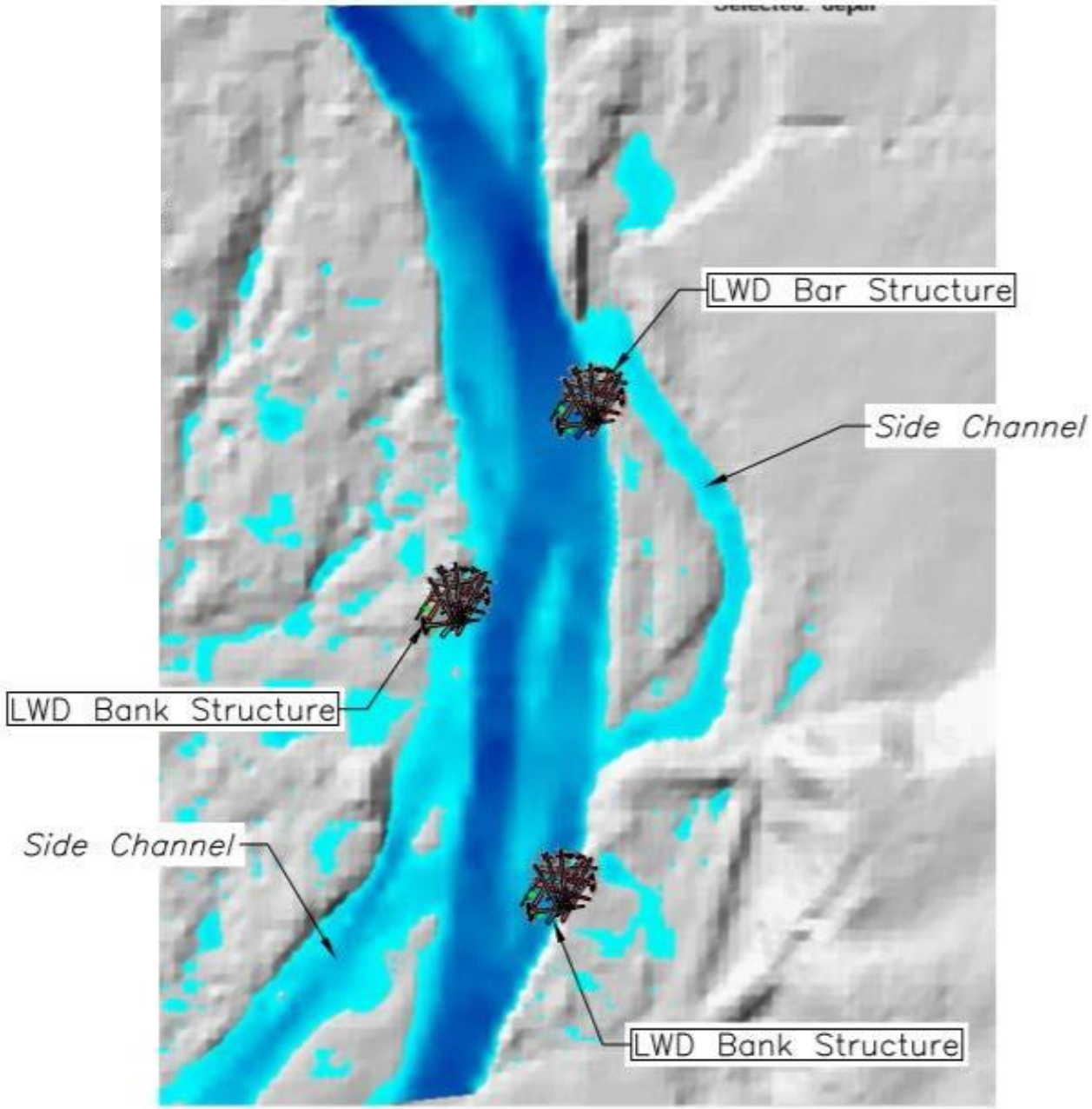
January
2020

Preliminary Results


Gravel Deposition


Some Wood Mobilization
January 2020

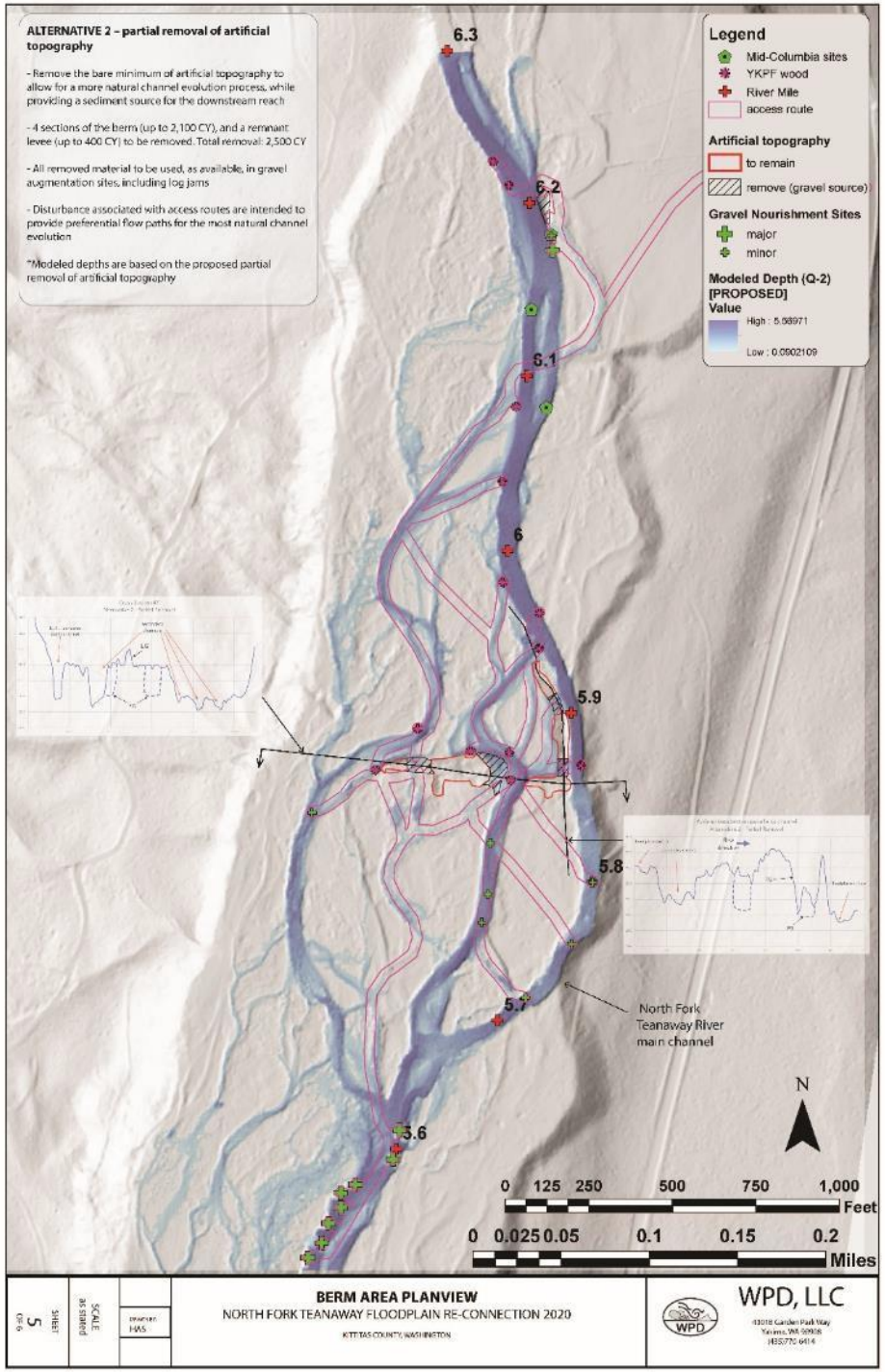
2020 North Fork Teanaway Restoration Actions



RAS 2D Depth Model - Existing 2 Year Flood

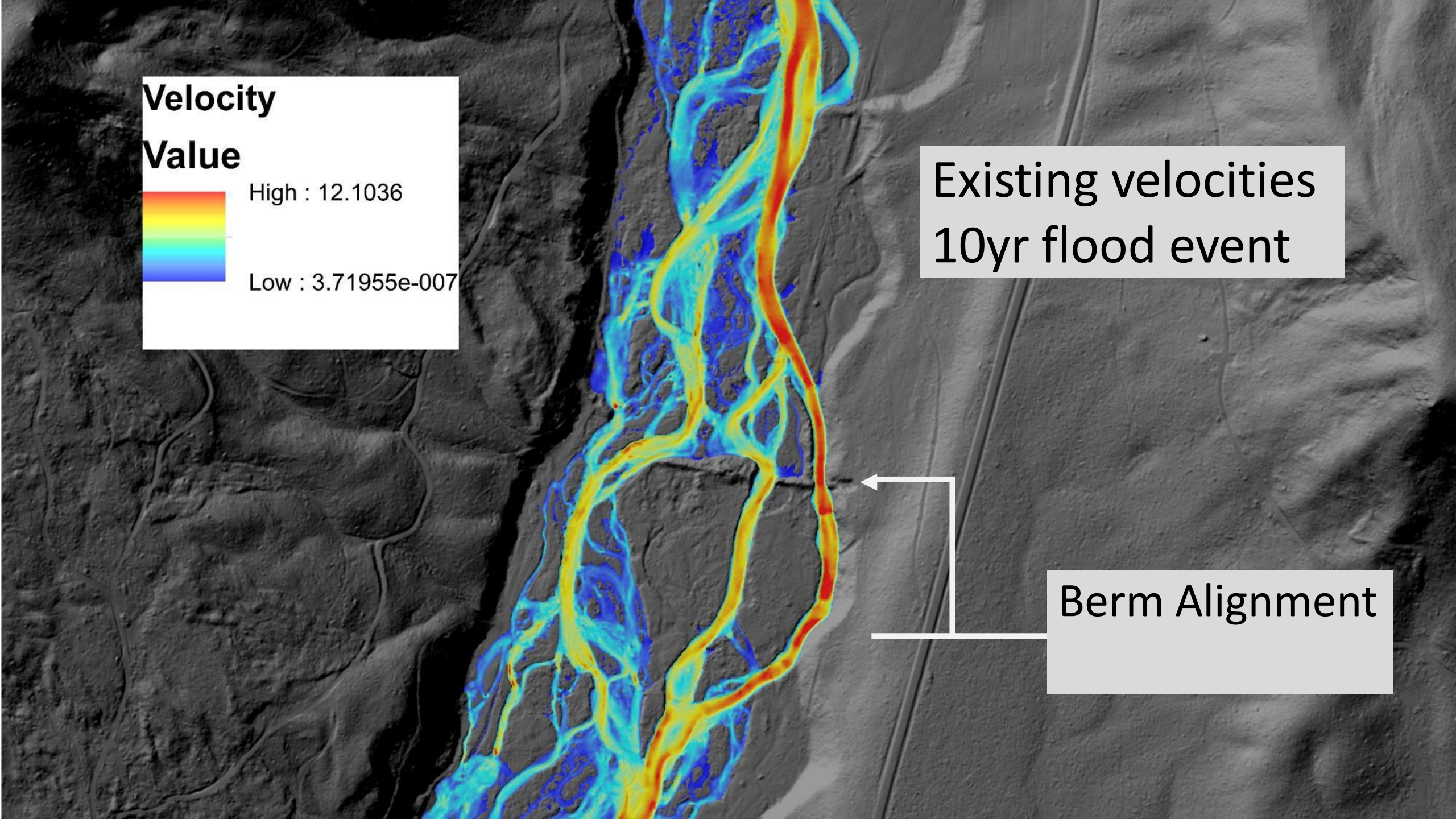
Scale: NTS

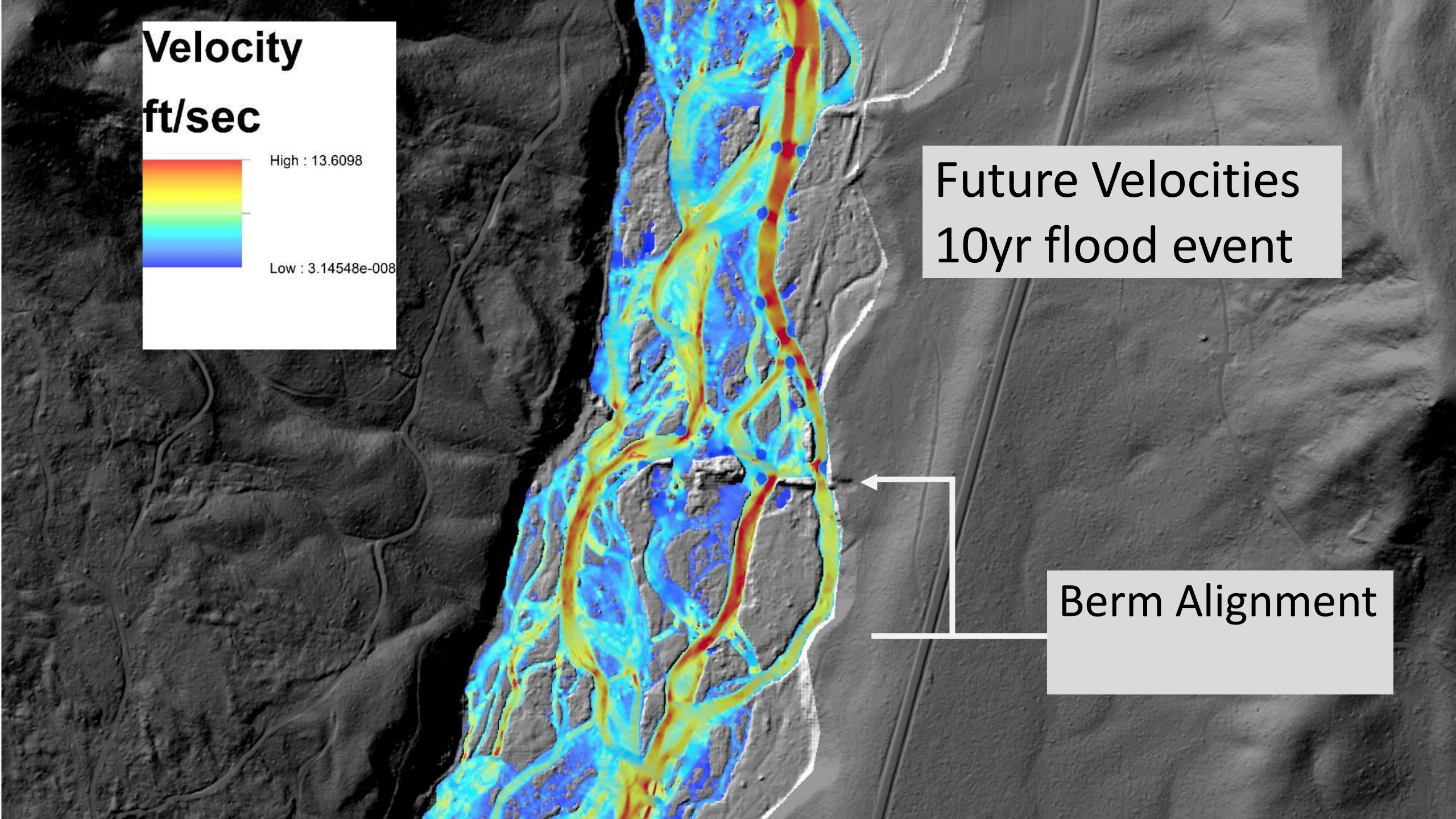
Wood Trapping Structures



Splitters, Deflectors, Levee Removal and Gravel Augmentation


Historic Teanaway Splash Dam

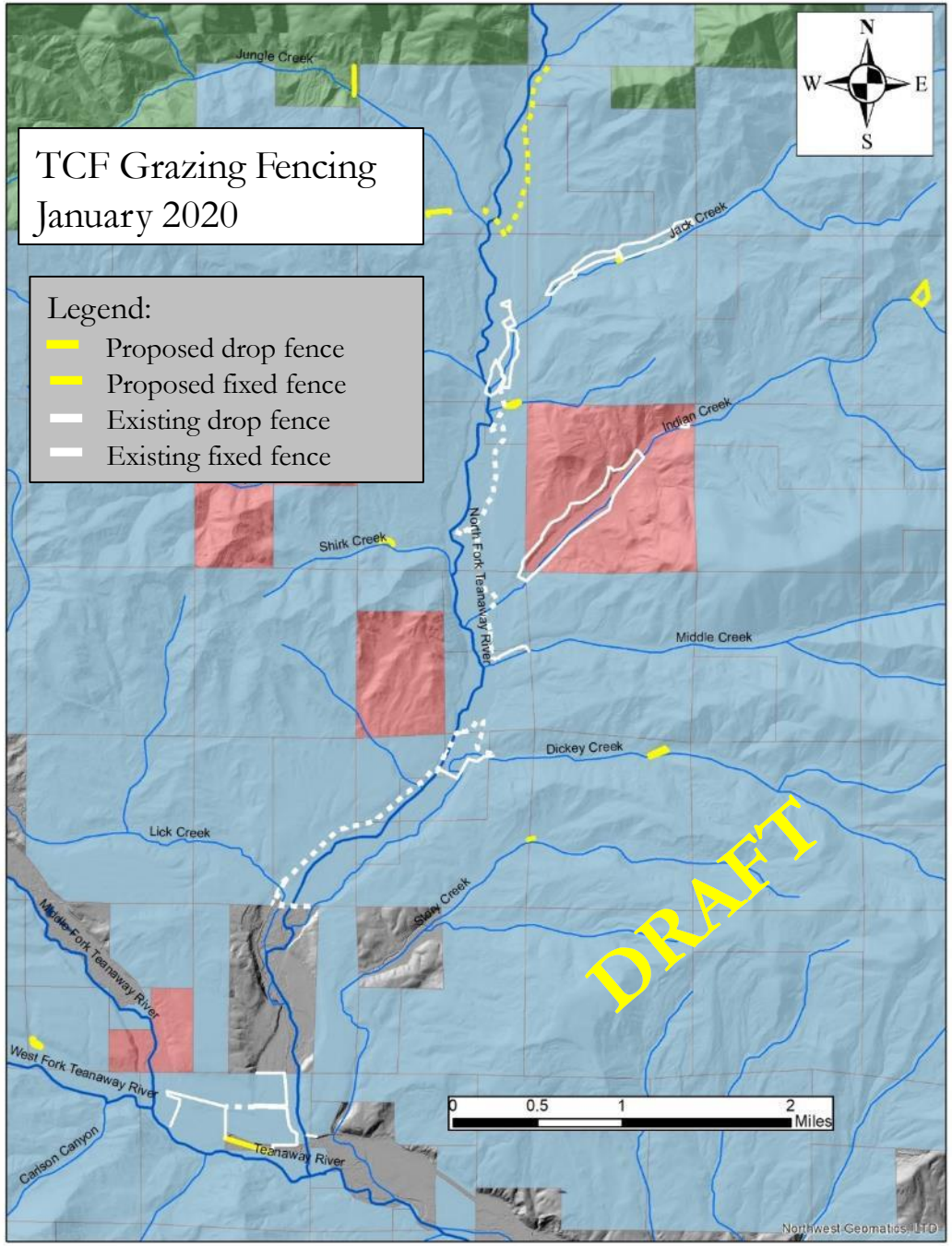

Velocity
Value
High : 12.1036
Low : 3.71955e-007
Existing velocities
10yr flood event
Berm Alignment


Velocity
ft/sec
High : 13.6098
Low : 3.14548e-008
Future Velocities
10yr flood event
Berm Alignment

2020 Work: 29 Pines to Stafford Creek = ~ 1 Mile

MF & WF Teanaway Geomorphic Assessment 2020-21

TCF Grazing Update:



Existing fence at TCF creation:

~5.5-6.5 miles fixed fence

Fence constructed since TCF creation:

~4.2 miles drop fence
~2.2 miles electric fence

Proposed additional fence in 2020:

~1.3 miles drop fence
~2.5 – 3.2 miles fixed fence

TCF Grazing Management:

Probably no scenario where full floodplain exclusion makes sense

1. Maintenance workload exceeding capacity, so $ from KCCD/RCPP
2. Lease language not written clearly – Clarifying for future
3. New fence – up to 4.2 miles + continued monitoring should lead to additional improvements.

TCF Grazing Management Time & Expense

2019 TCF fence maintenance hours

2019: $2,923/mile

vs

2017: estimate $1000/mile

TCF: Why are livestock challenging?

- Balance between Aquatic Restoration and Grazing Goals
- Building fence works, but is time/$ intensive; cow behavior
- We expect active and passive restoration will be successful in improving riparian function and aquatic habitat


Questions?