

APPENDIX P. 1950s TO 2012 LOWER SUSITNA RIVER SEGMENT TURNOVER

**Susitna-Watana Hydroelectric Project
(FERC No. 14241)**

Geomorphology Study (6.5)

**Mapping of Geomorphic Features and Turnover
within the Middle and Lower Susitna River Segments
from 1950s, 1980s, and Current Aerials
Technical Memorandum**

Prepared for

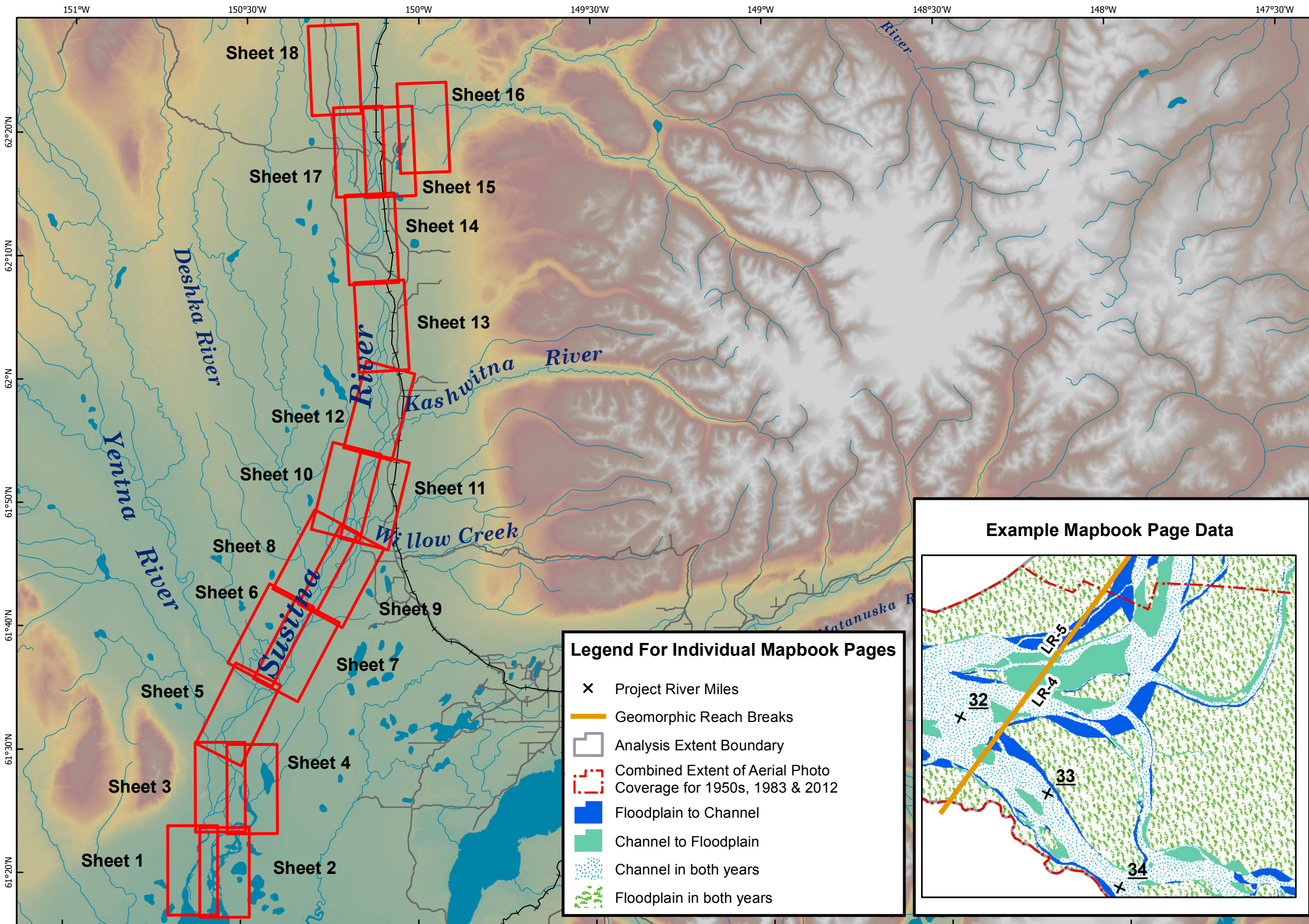
Alaska Energy Authority



Prepared by

Tetra Tech Inc.

September 2014



LOWER SUSITNA RIVER SEGMENT TURNOVER ANALYSIS 1950s - 2012

Legend

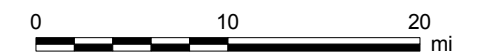
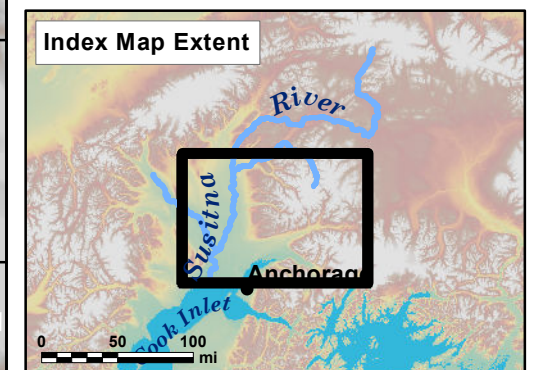
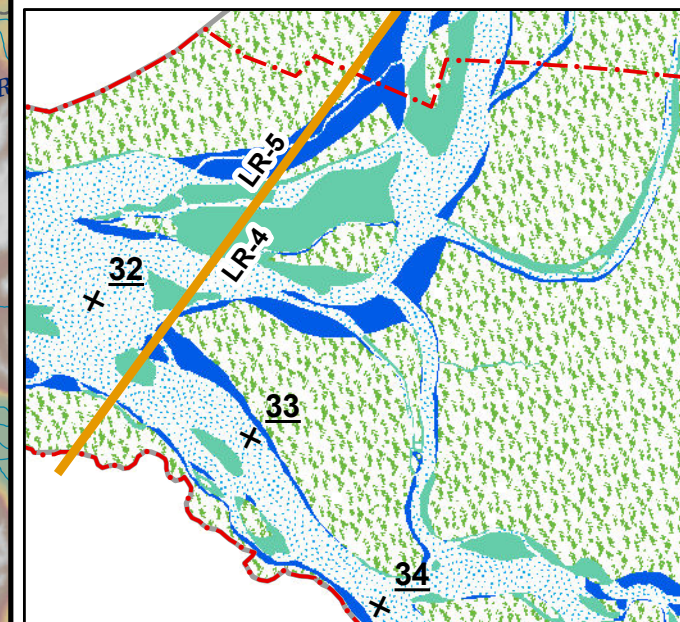
- Sheet Extends
- Roads
- Railroads
- Rivers and Streams
- Waterbodies

Data Sources: See Map References

Legend For Individual Mapbook Pages

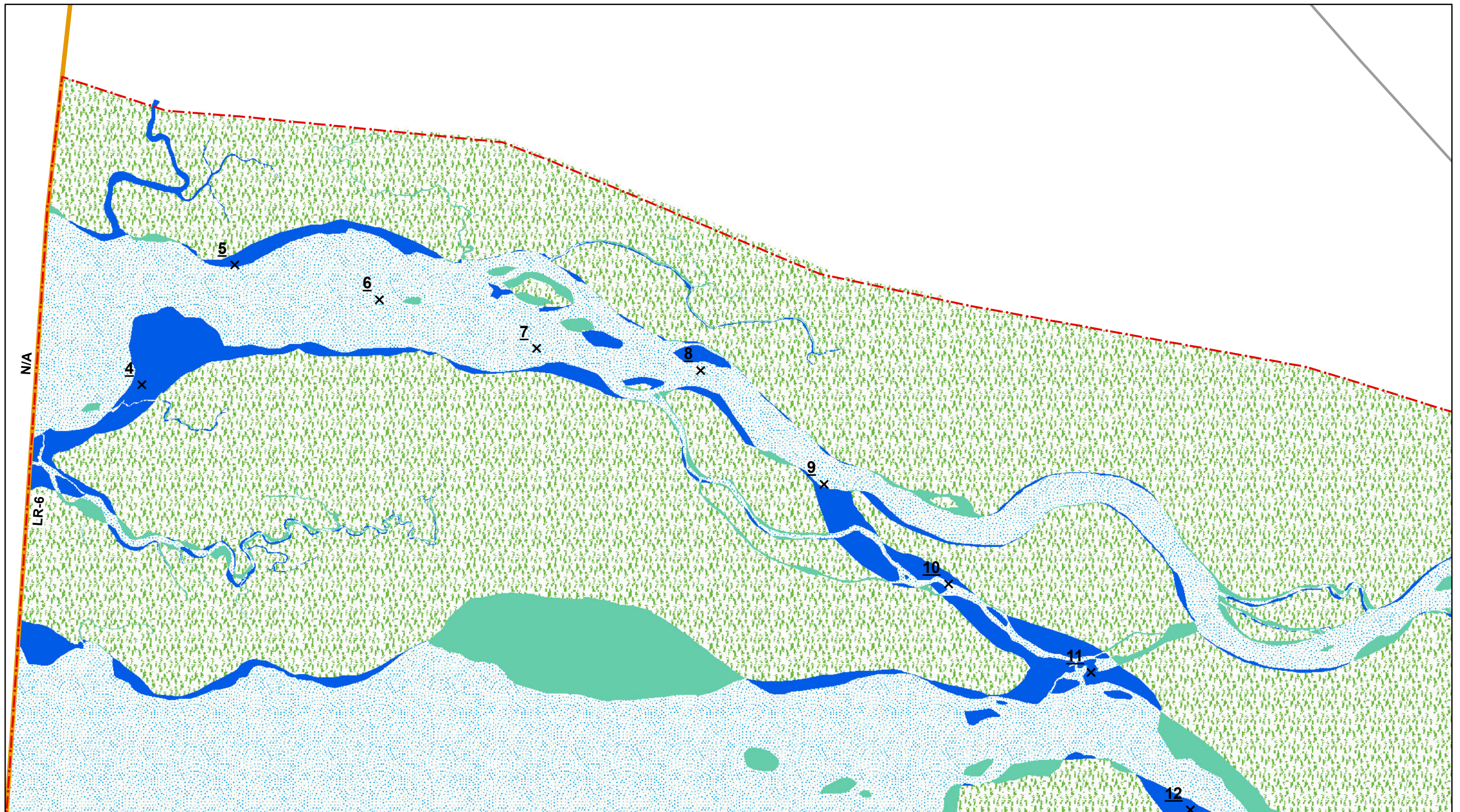
- Project River Miles
- Geomorphic Reach Breaks
- Analysis Extent Boundary
- Combined Extent of Aerial Photo Coverage for 1950s, 1983 & 2012
- Floodplain to Channel
- Channel to Floodplain
- Channel in both years
- Floodplain in both years

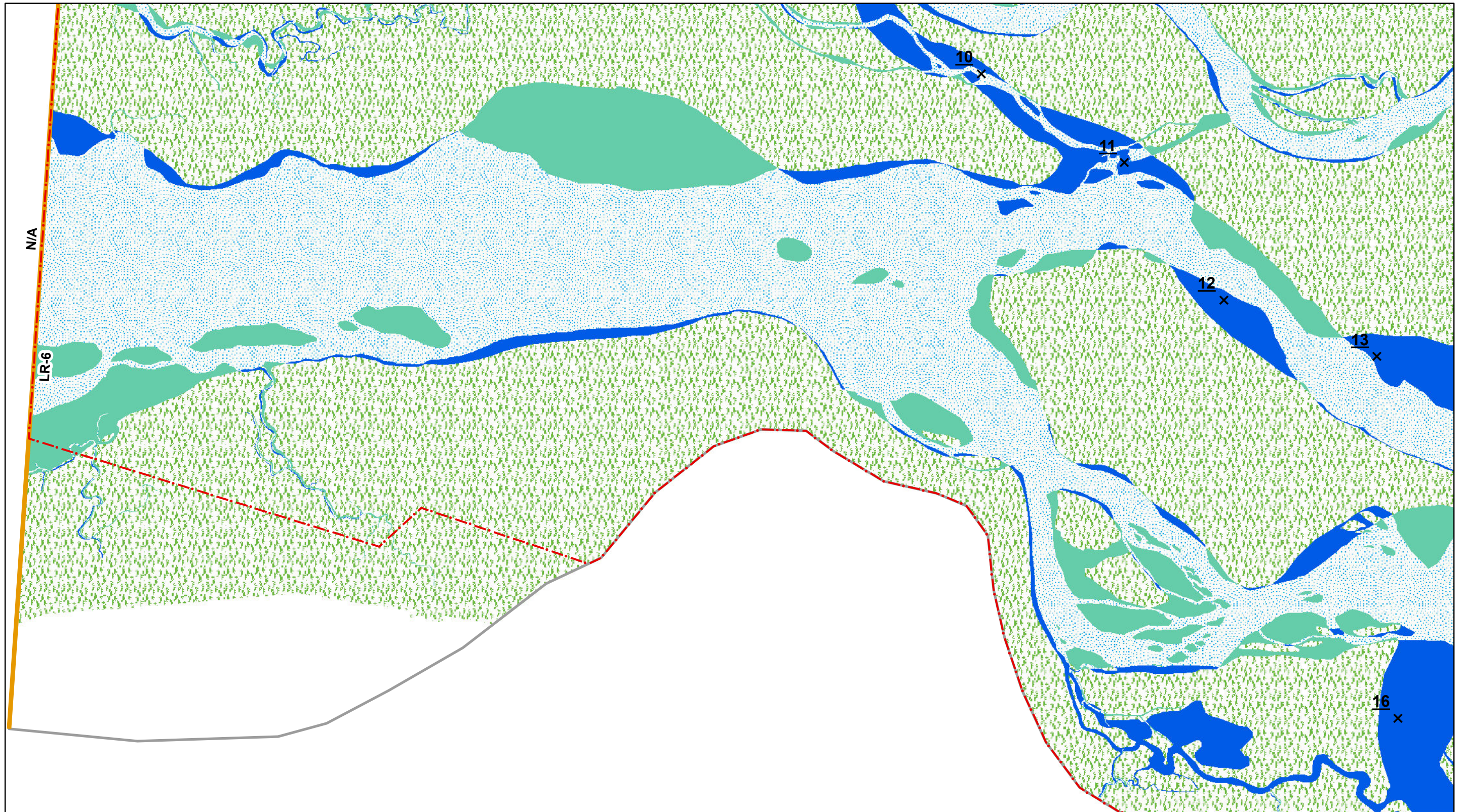
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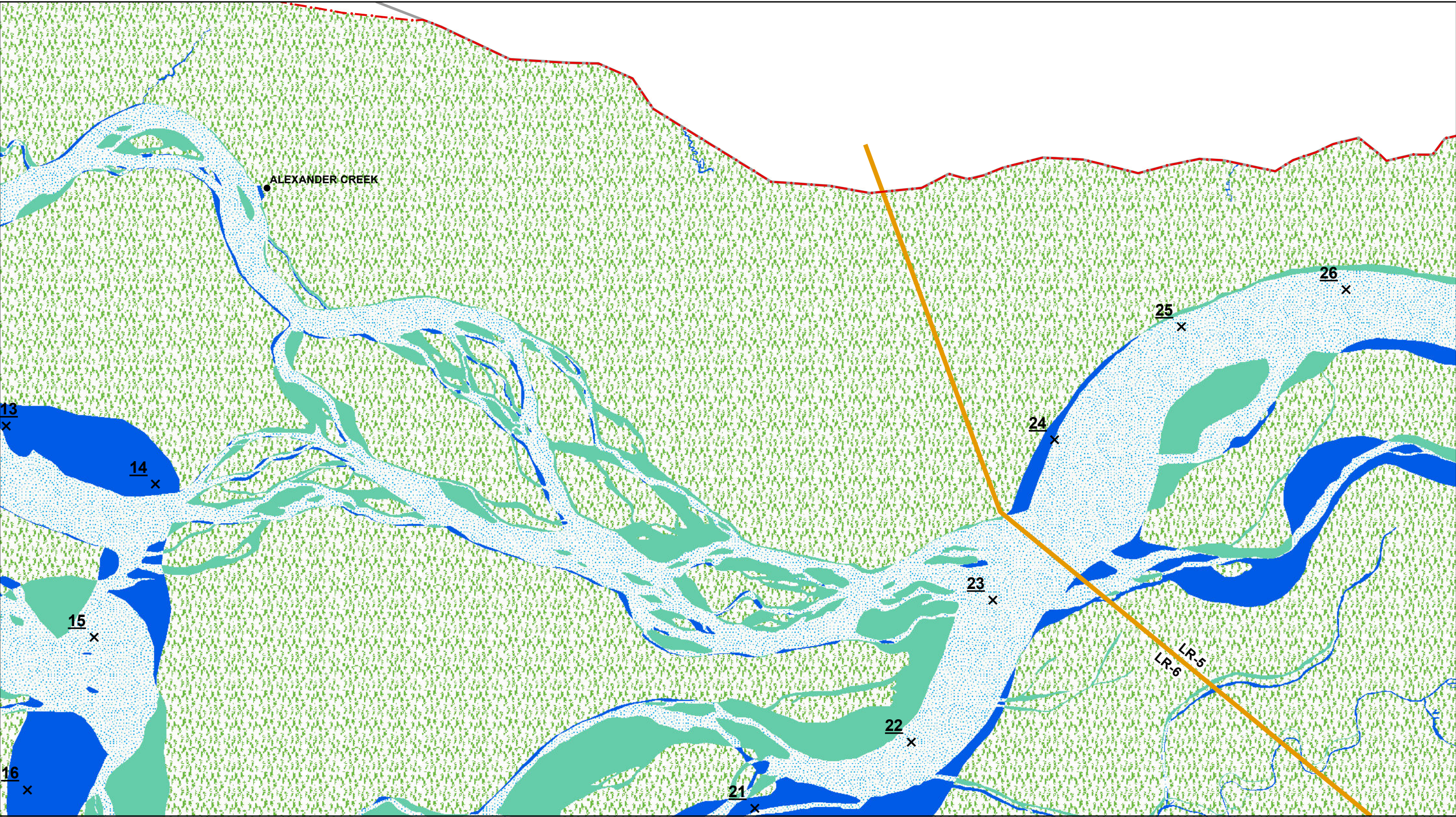


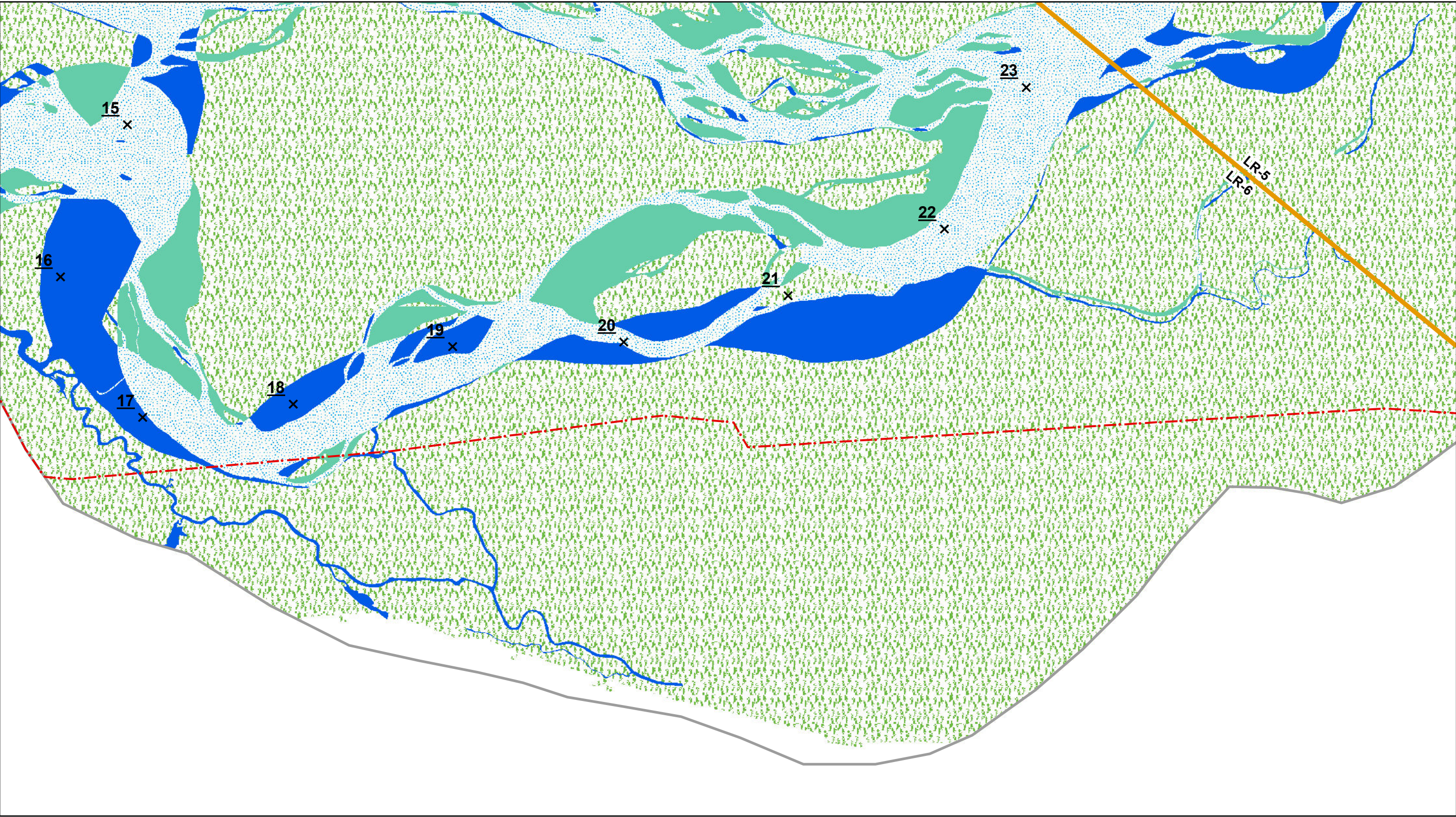
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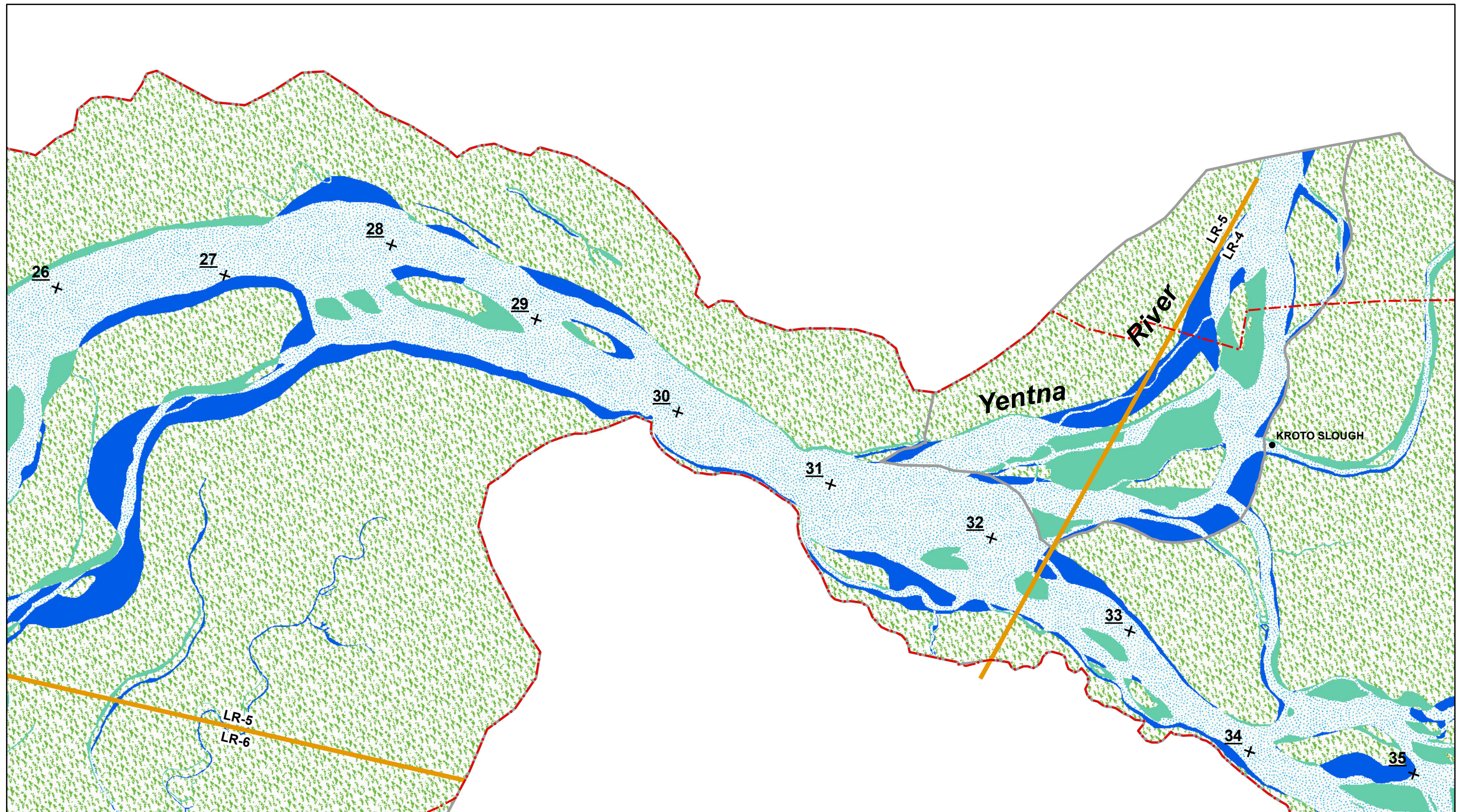












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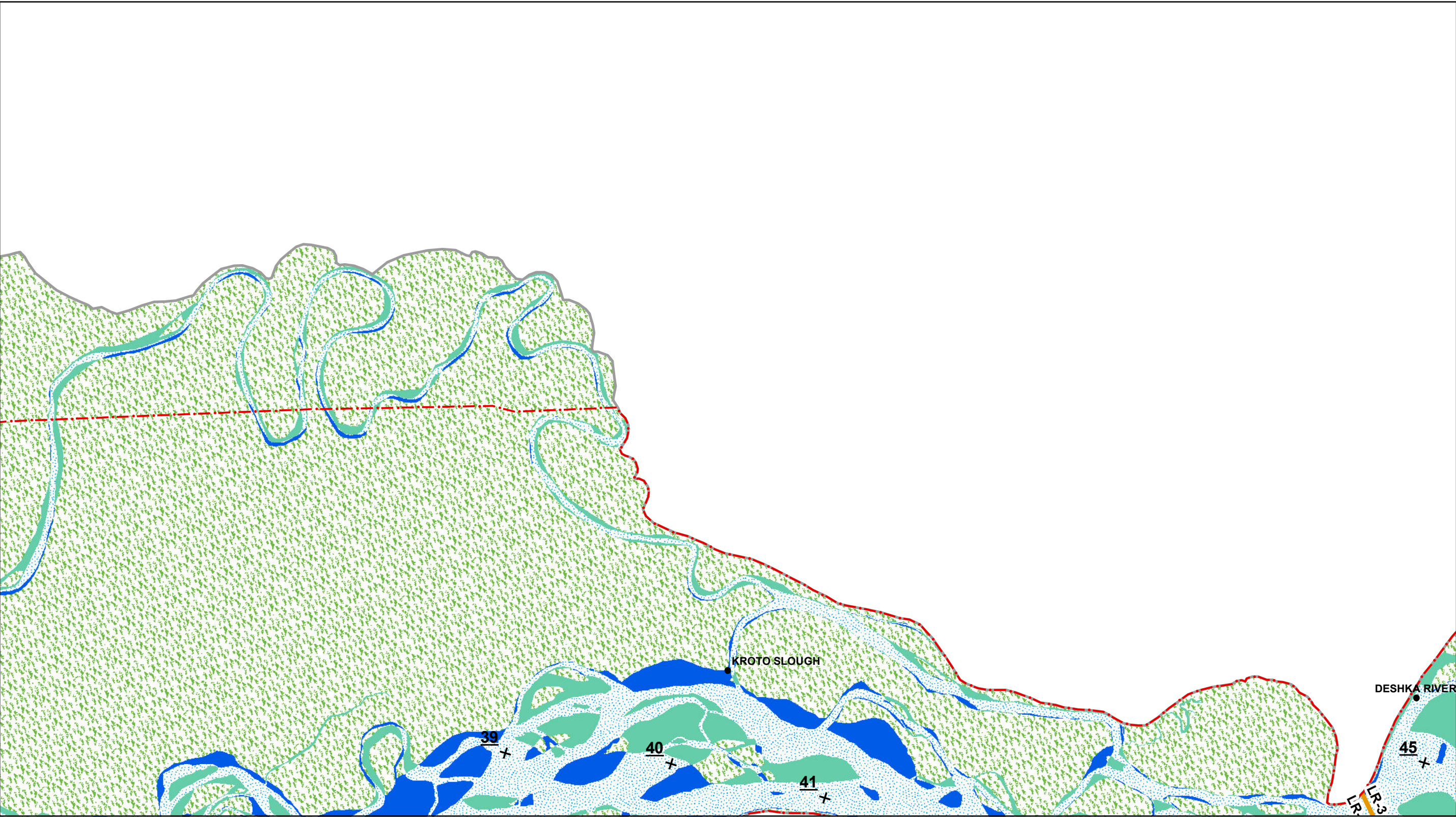
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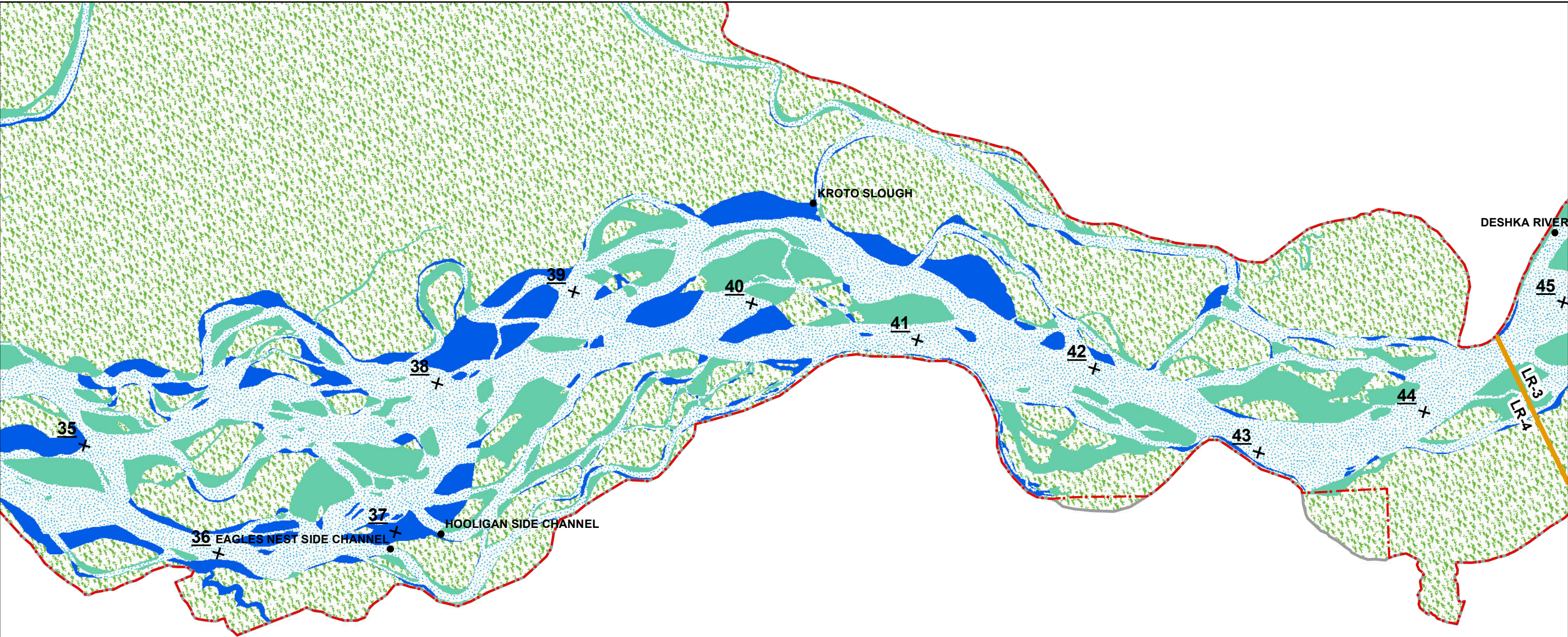
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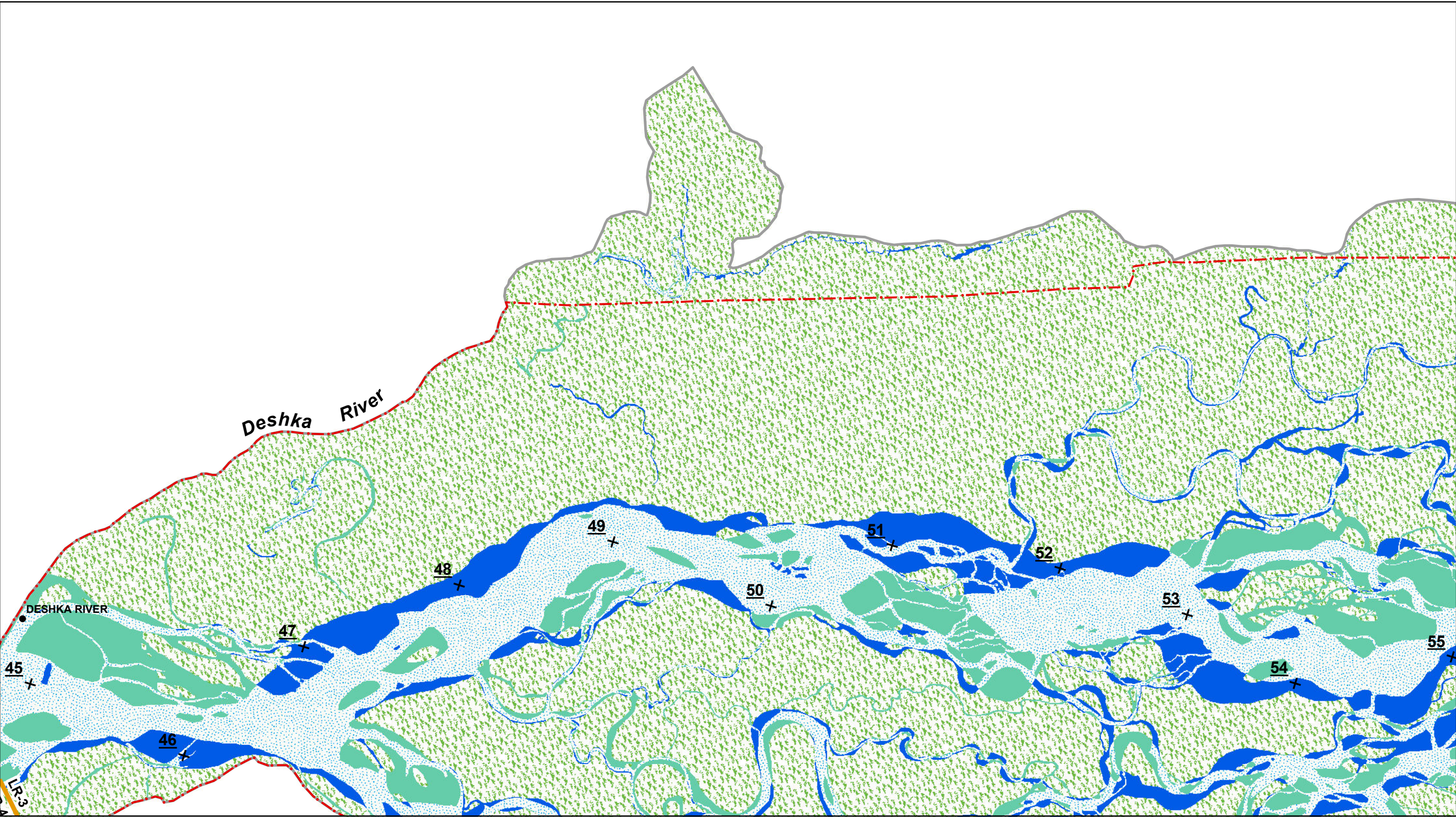
LOWER SUSITNA RIVER SEGMENT
1950s to 2012 TURNOVER

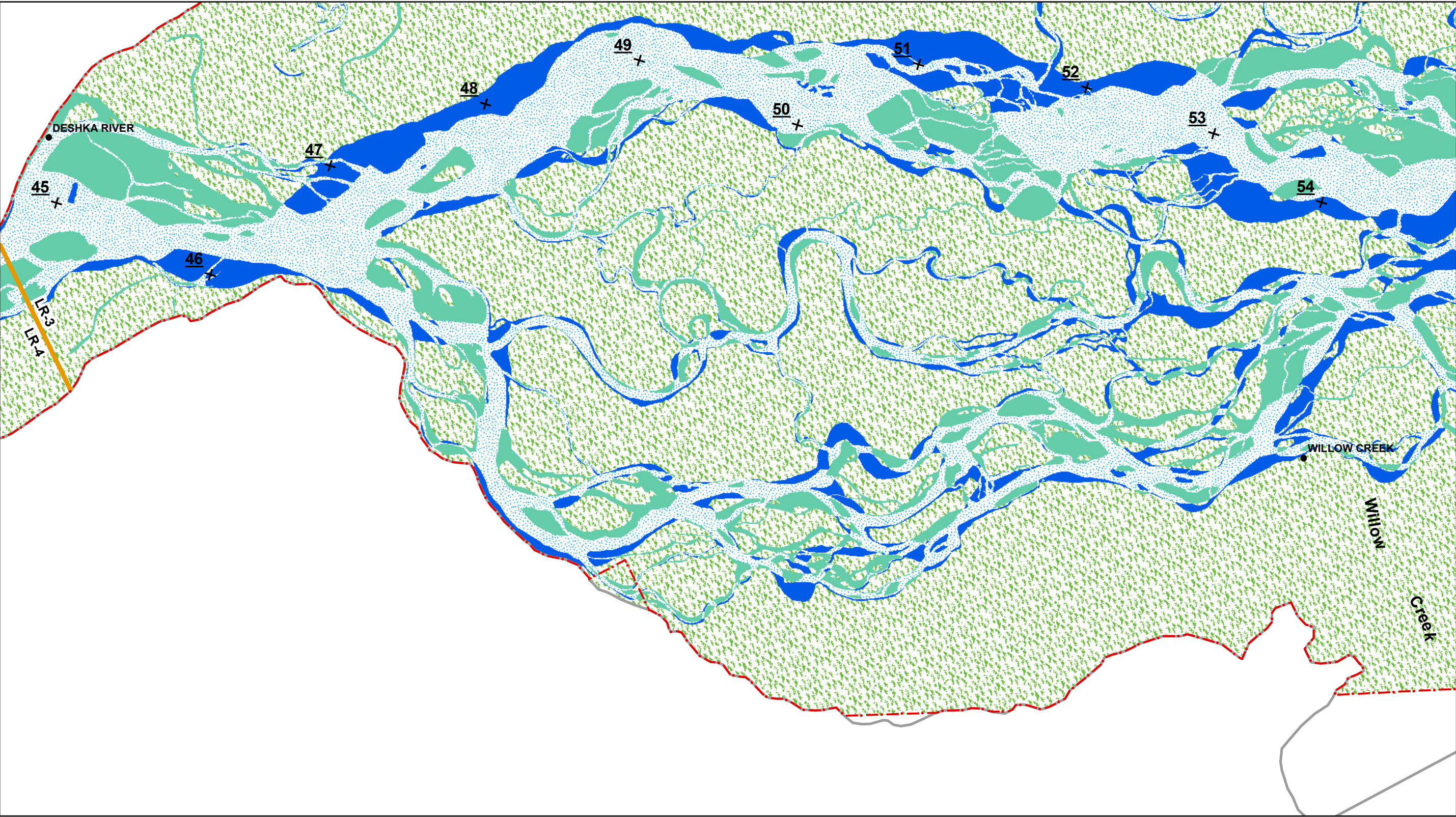
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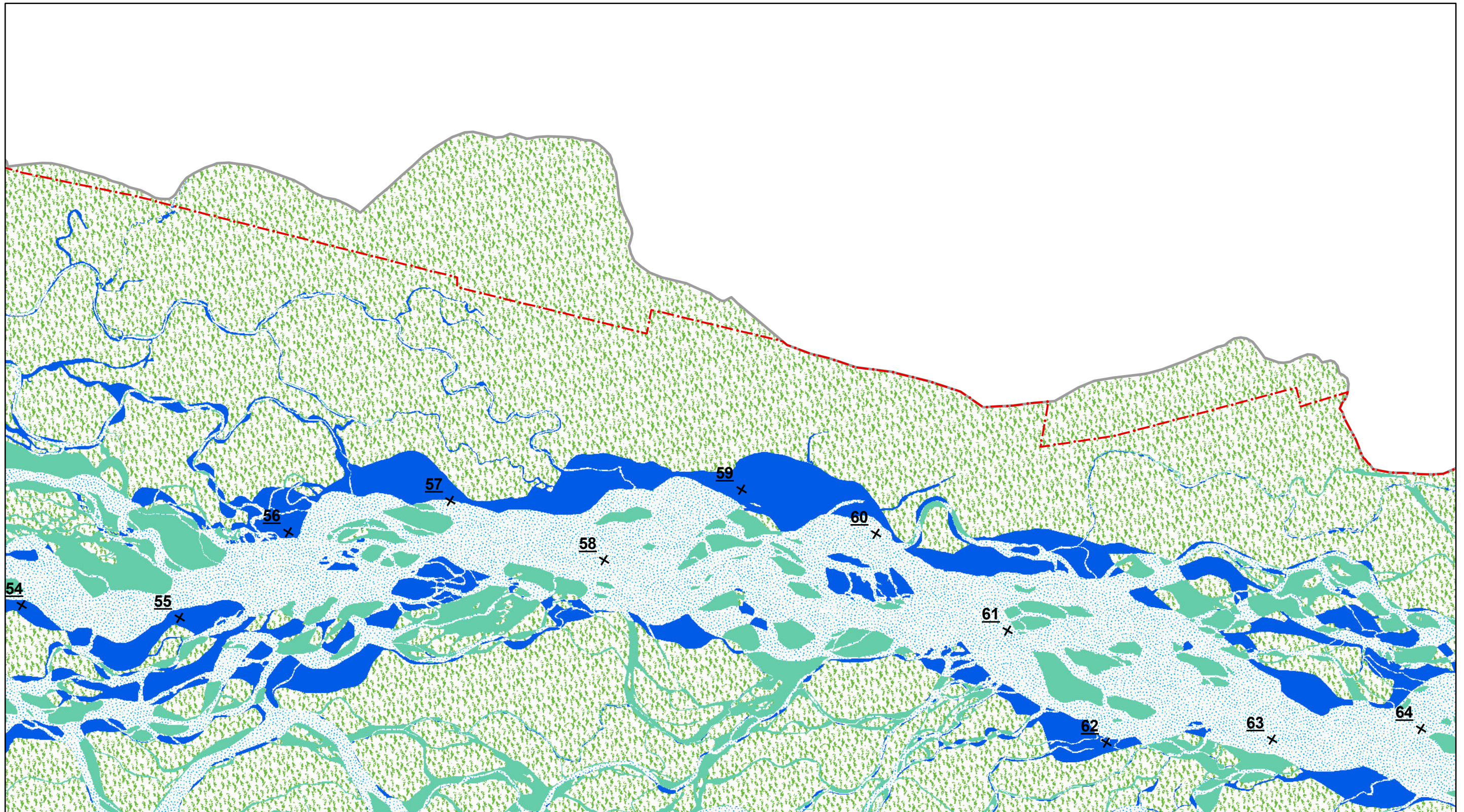


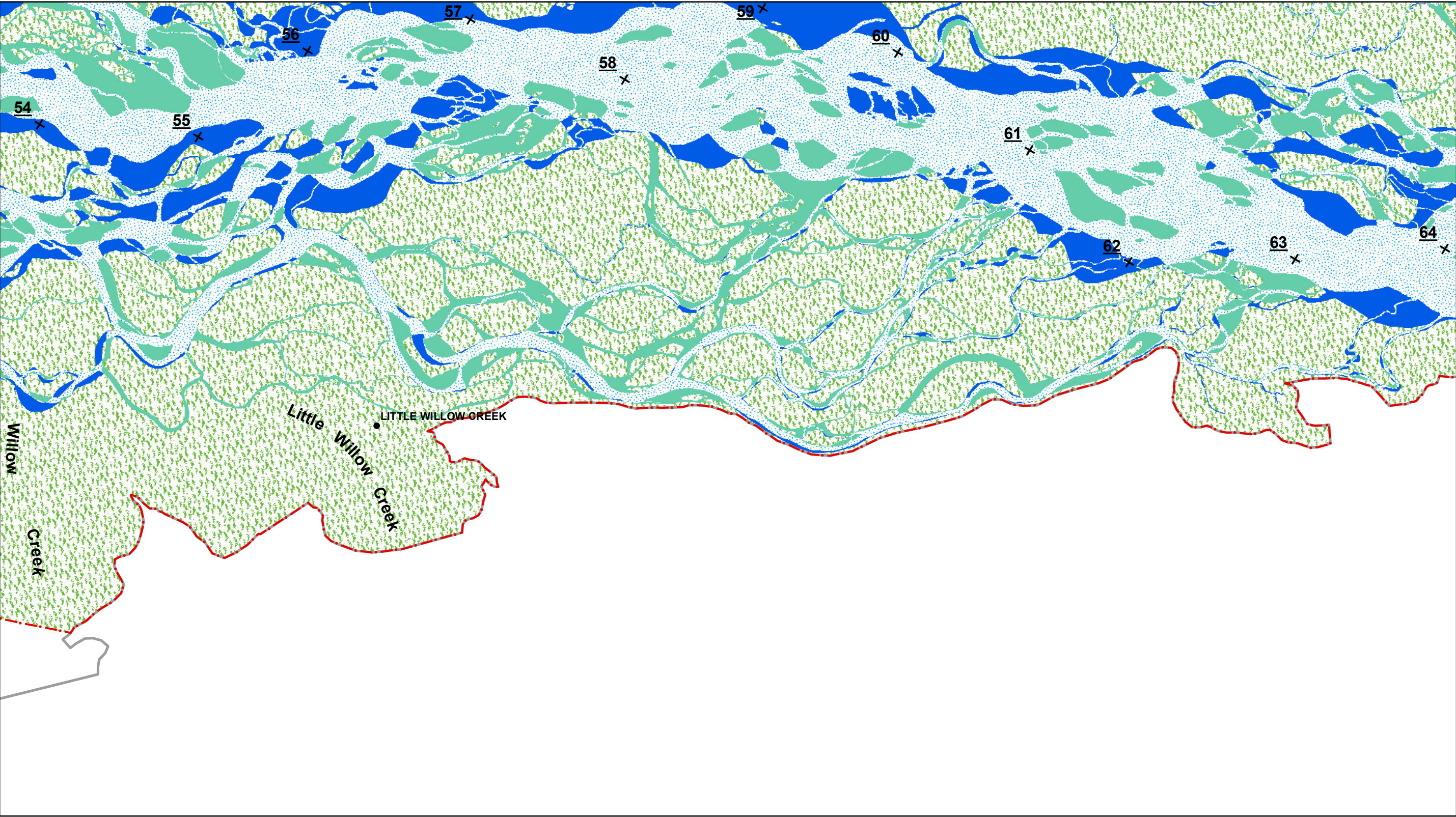


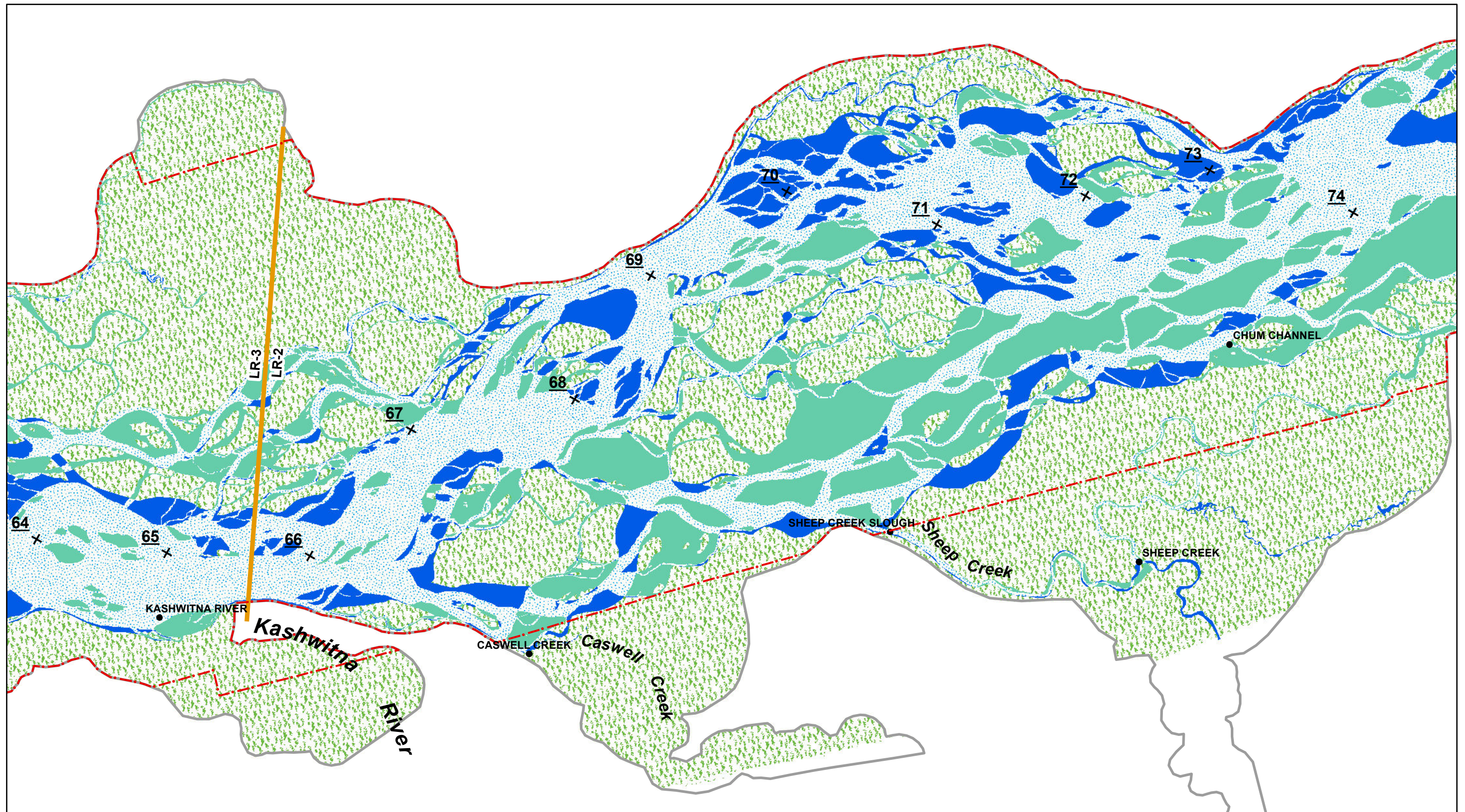










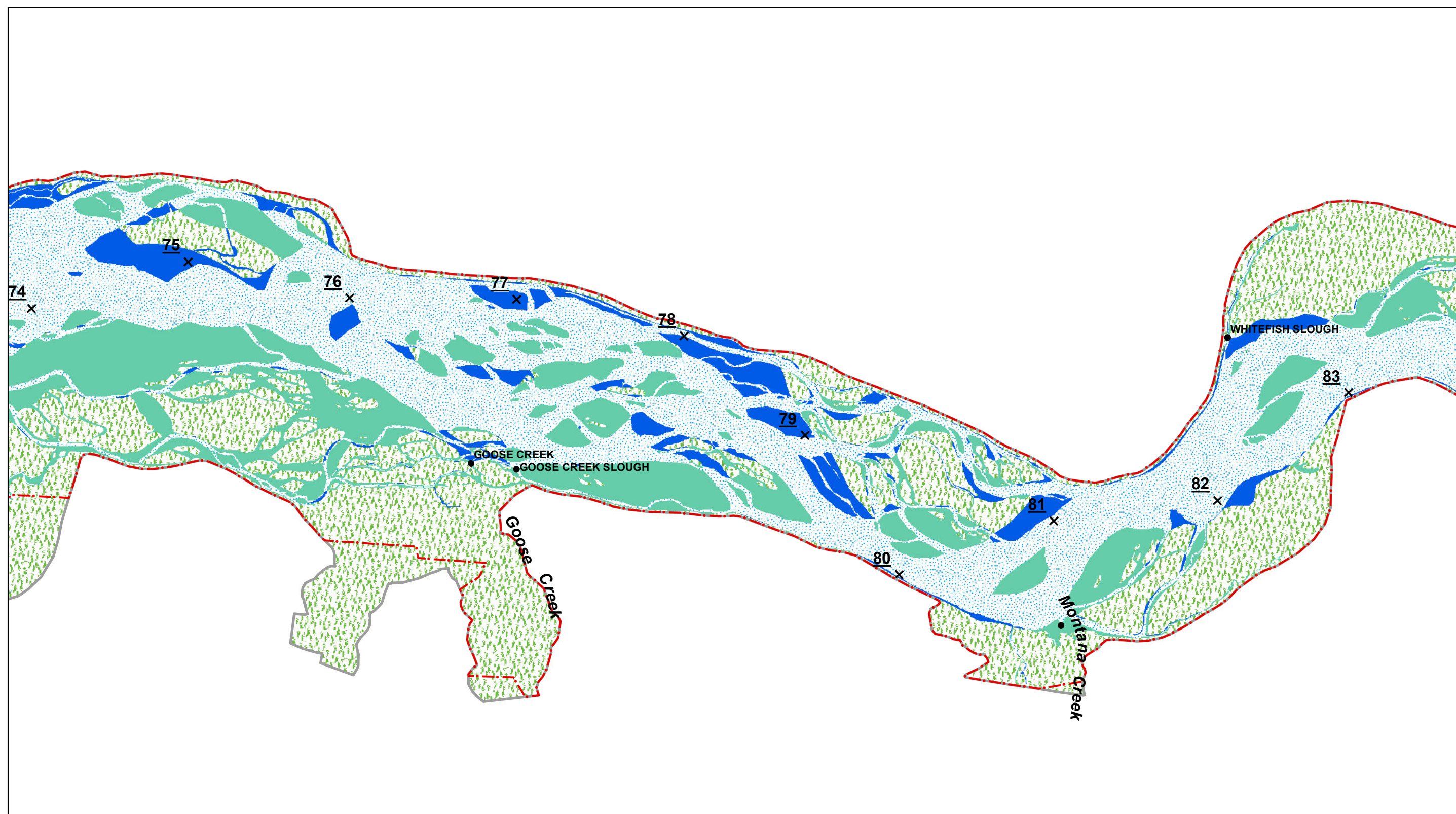


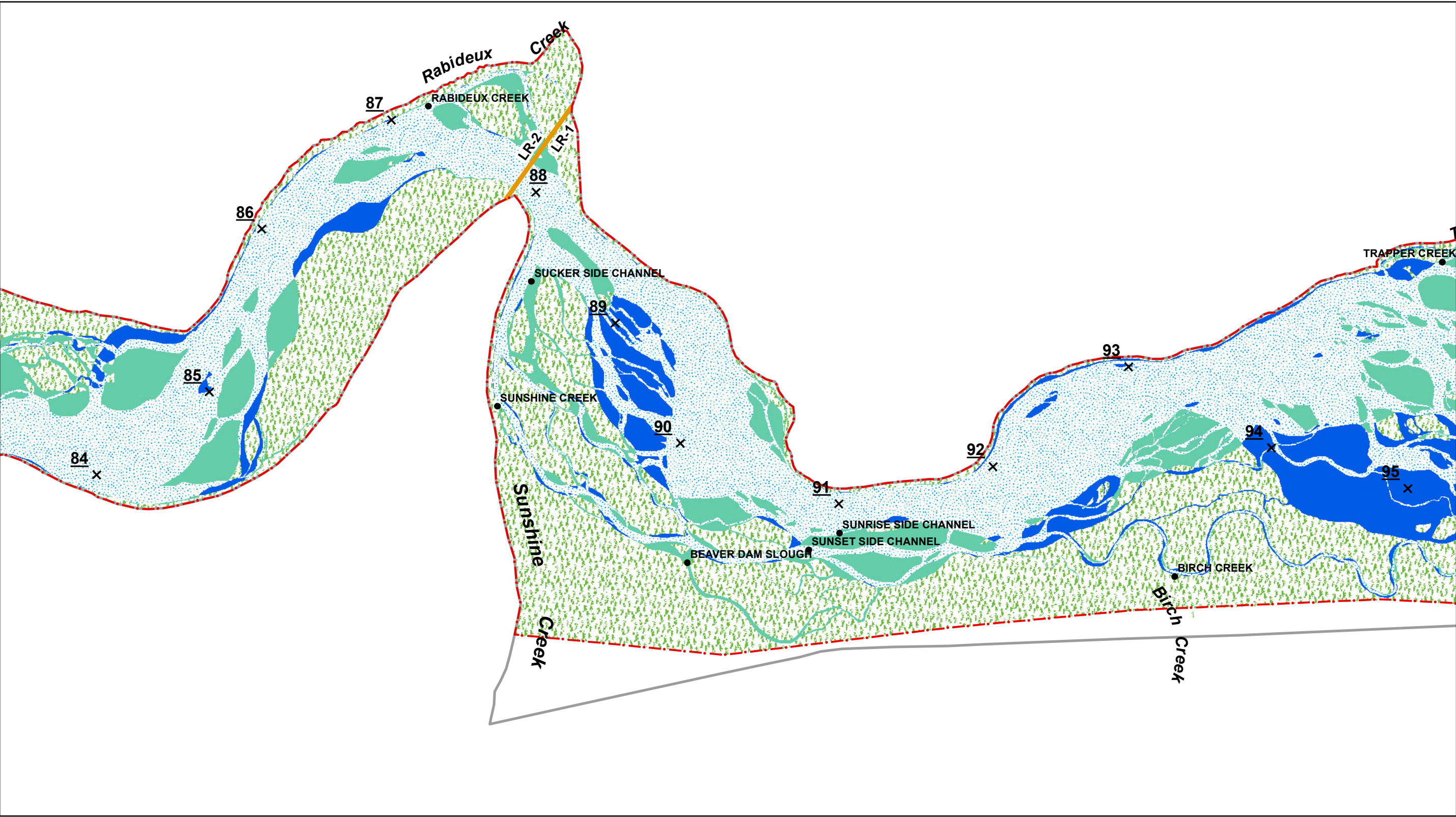
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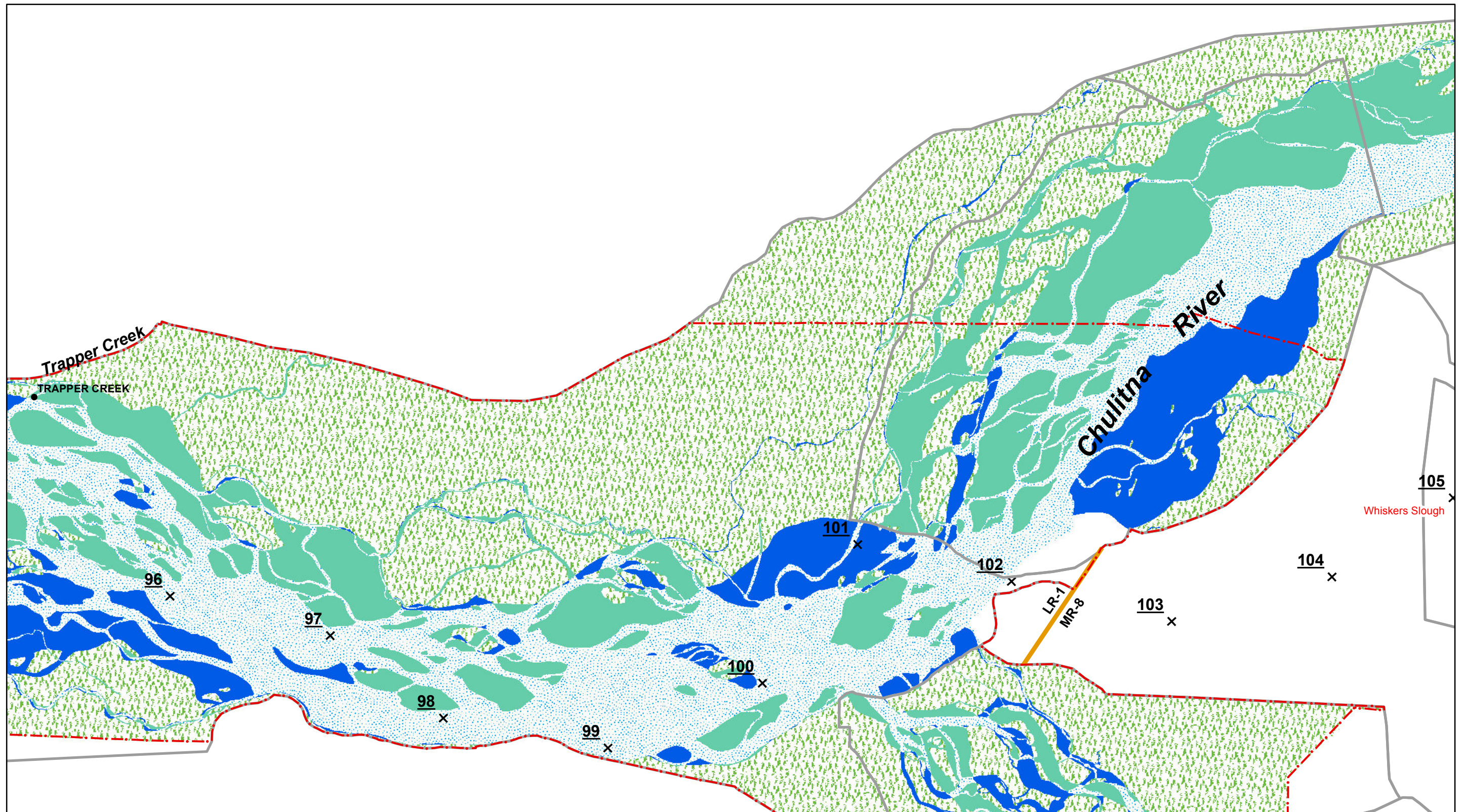
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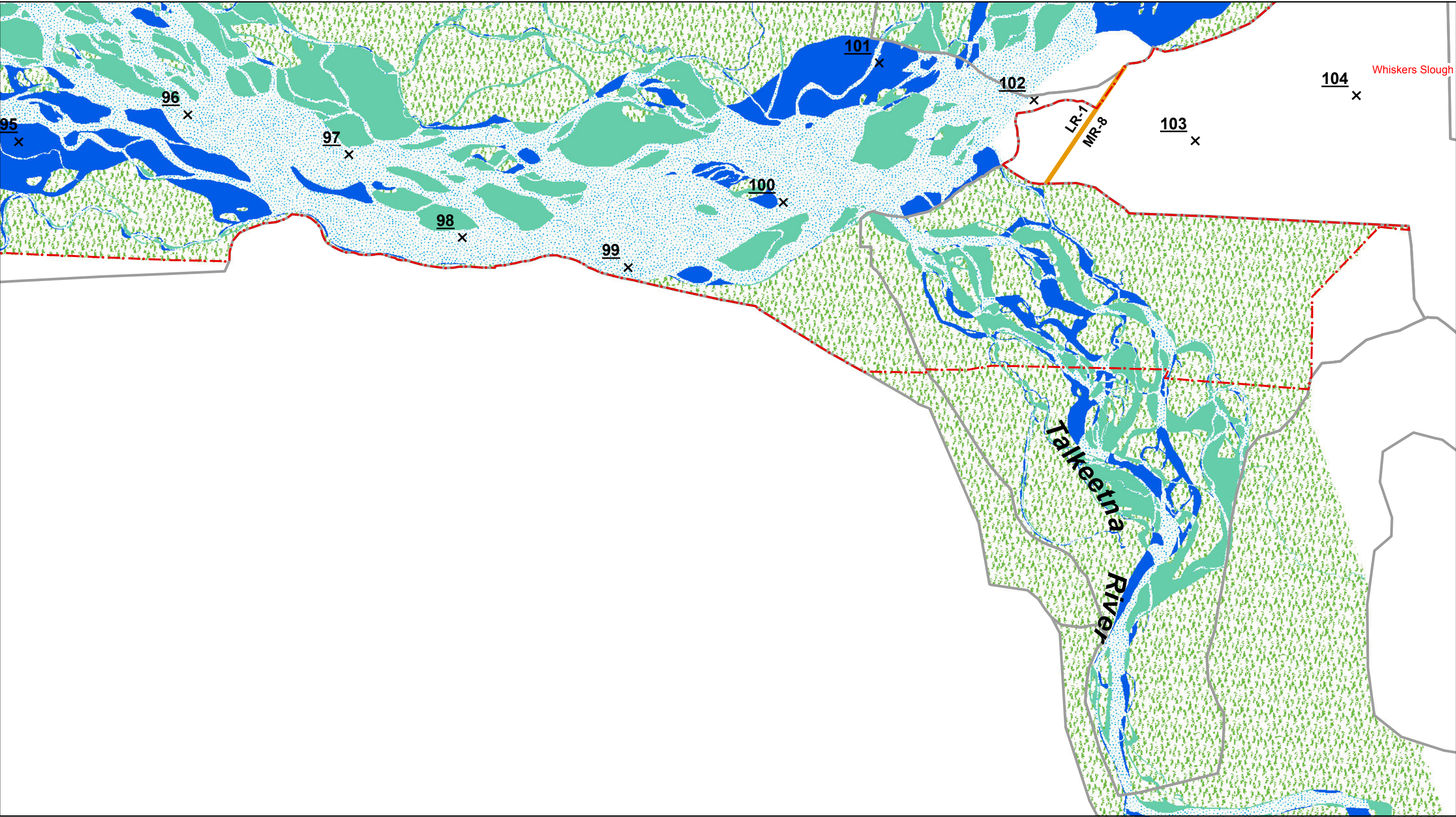
LOWER SUSITNA RIVER SEGMENT
1950s to 2012 TURNOVER

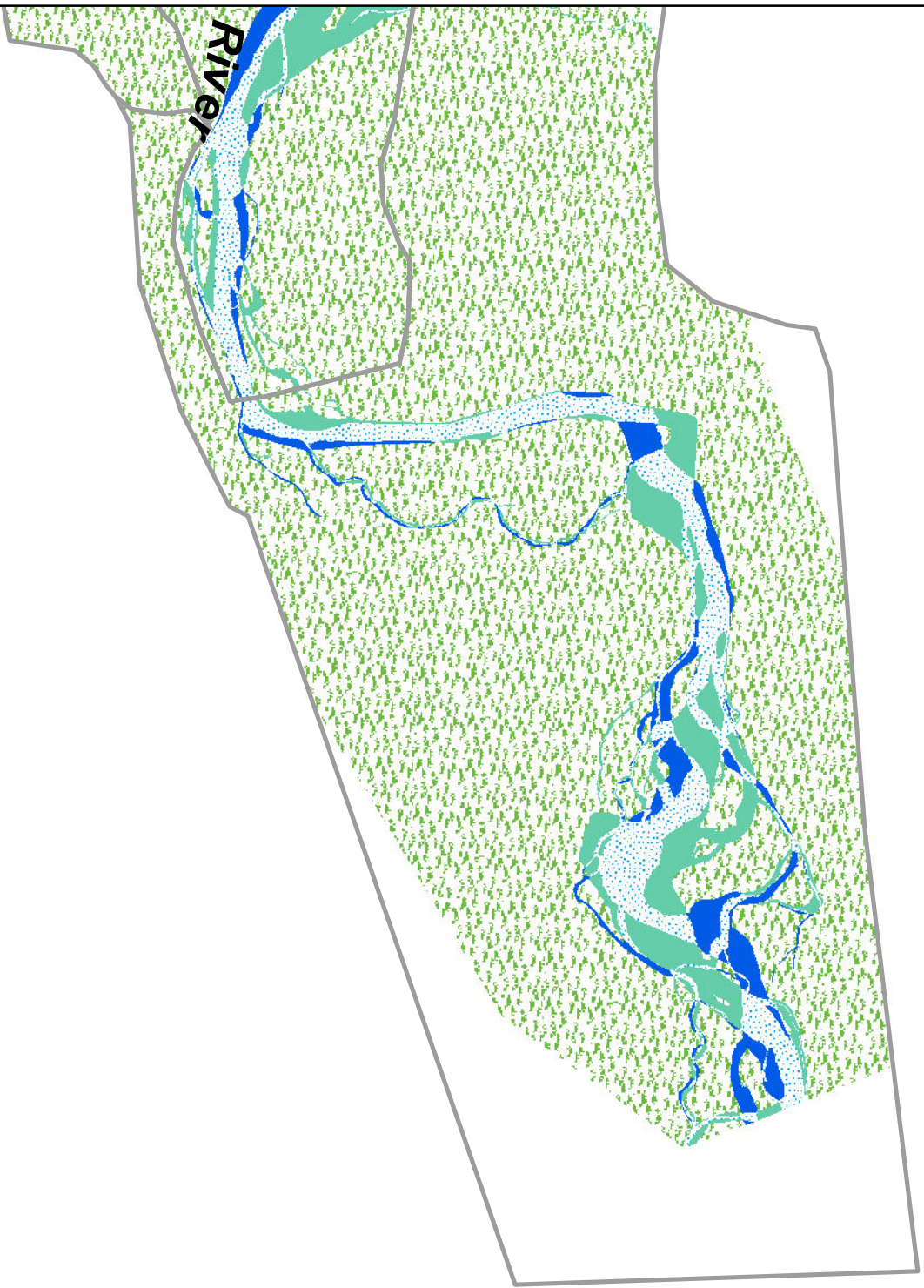












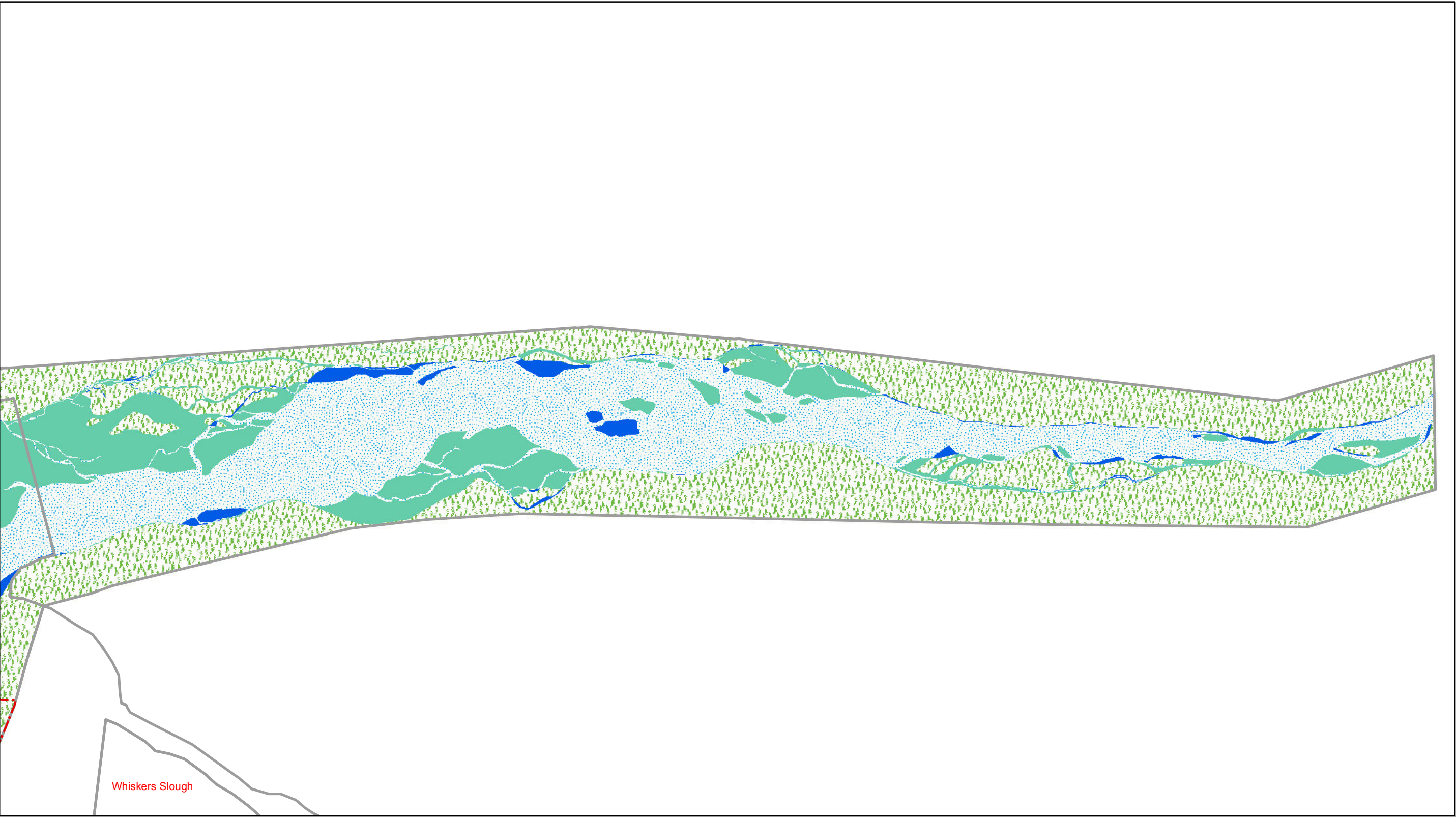
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See index page for legend and additional data information.

1 inch = 3,000 feet

Sheet 17 of 18

LOWER SUSITNA RIVER SEGMENT
1950s to 2012 TURNOVER



APPENDIX Q. 2012 GEOMORPHIC FEATURES IN THE THREE RIVER CONFLUENCE

**Susitna-Watana Hydroelectric Project
(FERC No. 14241)**

Geomorphology Study (6.5)

**Mapping of Geomorphic Features and Turnover
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Technical Memorandum**

Prepared for

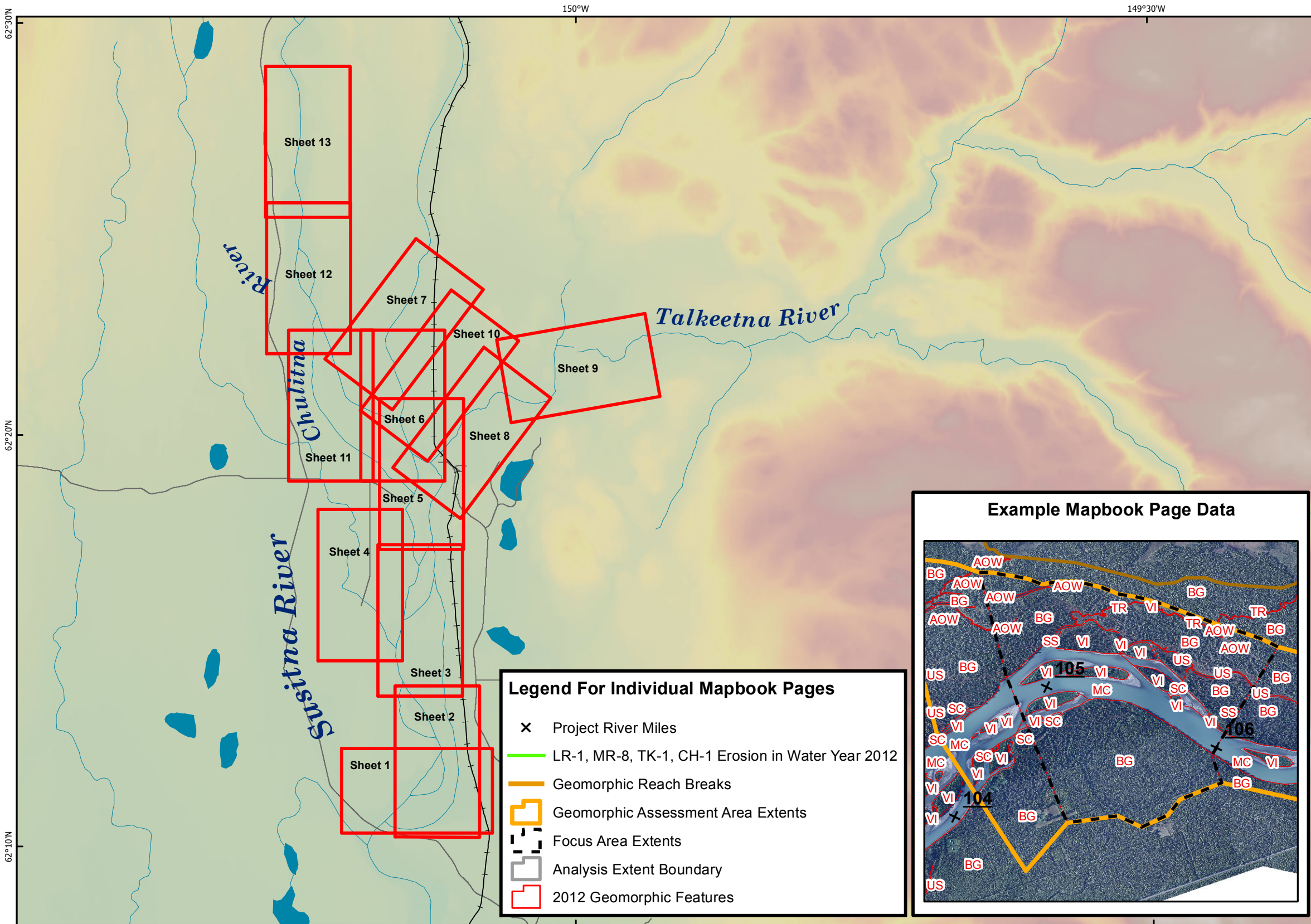
Alaska Energy Authority



Prepared by

Tetra Tech Inc.

September 2014



LR-1, MR-8, TK-1, CH-1 2012 GEOMORPHIC FEATURES

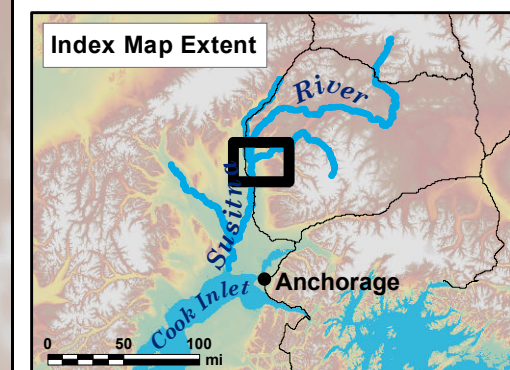
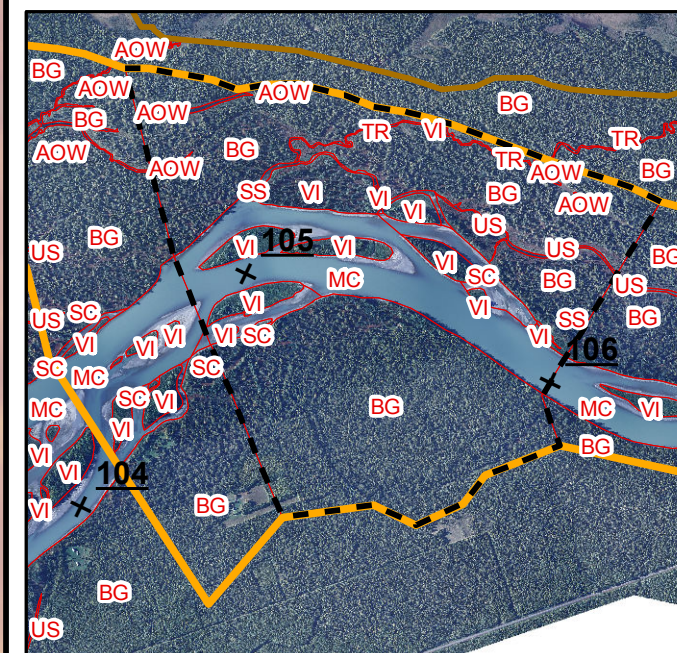
Legend

- Sheet Extent
- Roads
- Railroads
- Rivers and Streams
- Waterbodies

Data Sources: See Map References

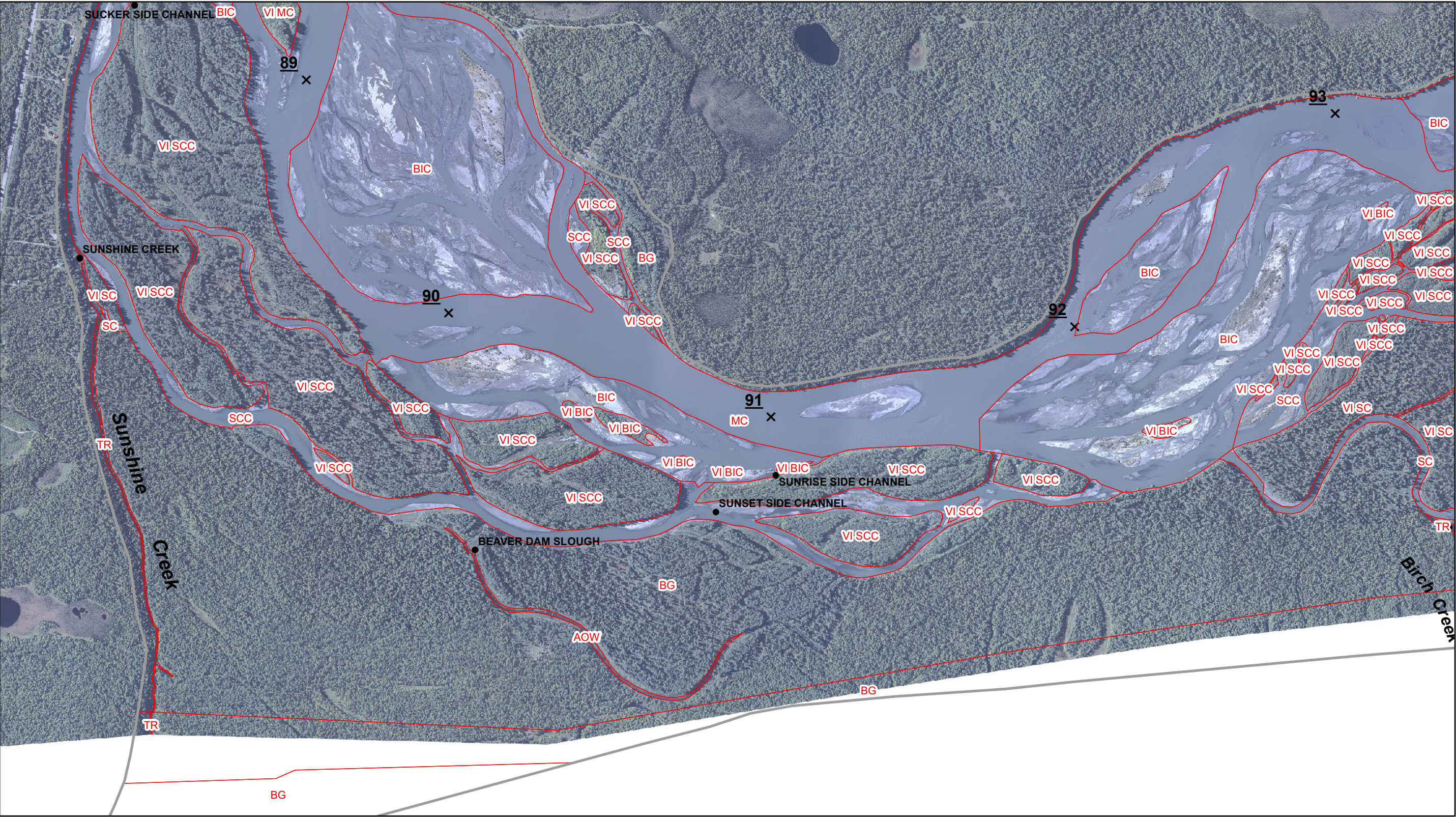
- ### Legend For Individual Mapbook Pages
- Project River Miles
 - LR-1, MR-8, TK-1, CH-1 Erosion in Water Year 2012
 - Geomorphic Reach Breaks
 - Geomorphic Assessment Area Extents
 - Focus Area Extents
 - Analysis Extent Boundary
 - 2012 Geomorphic Features

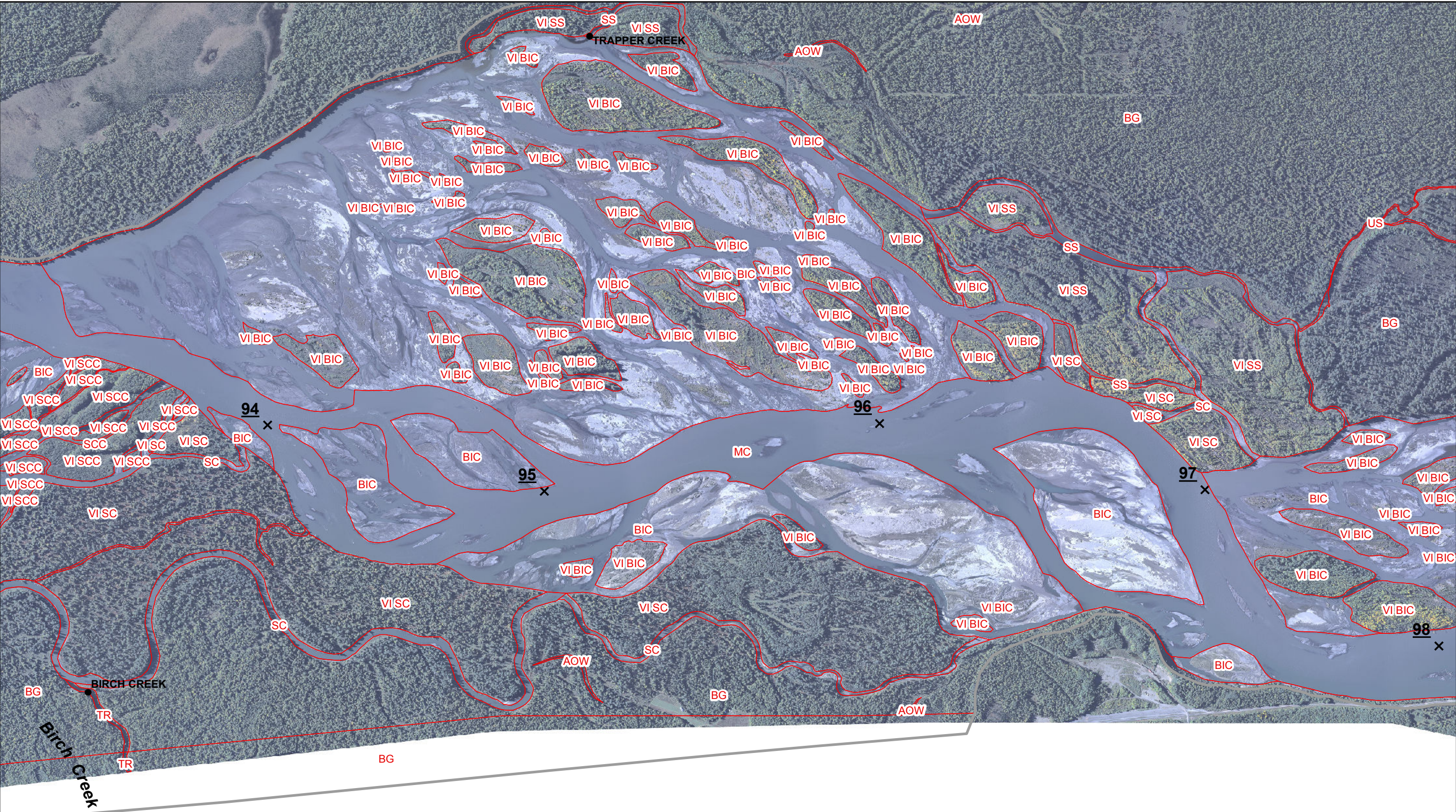
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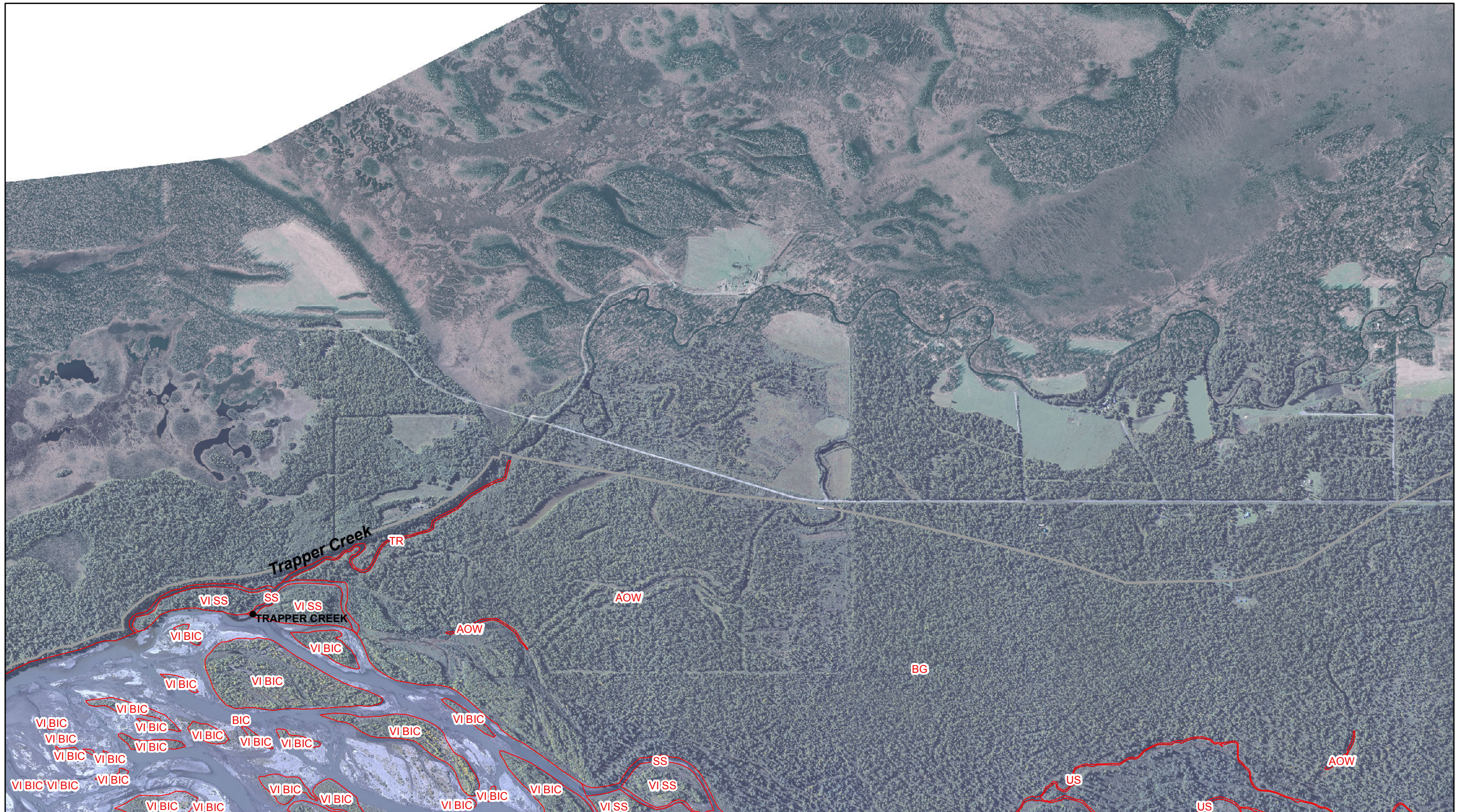


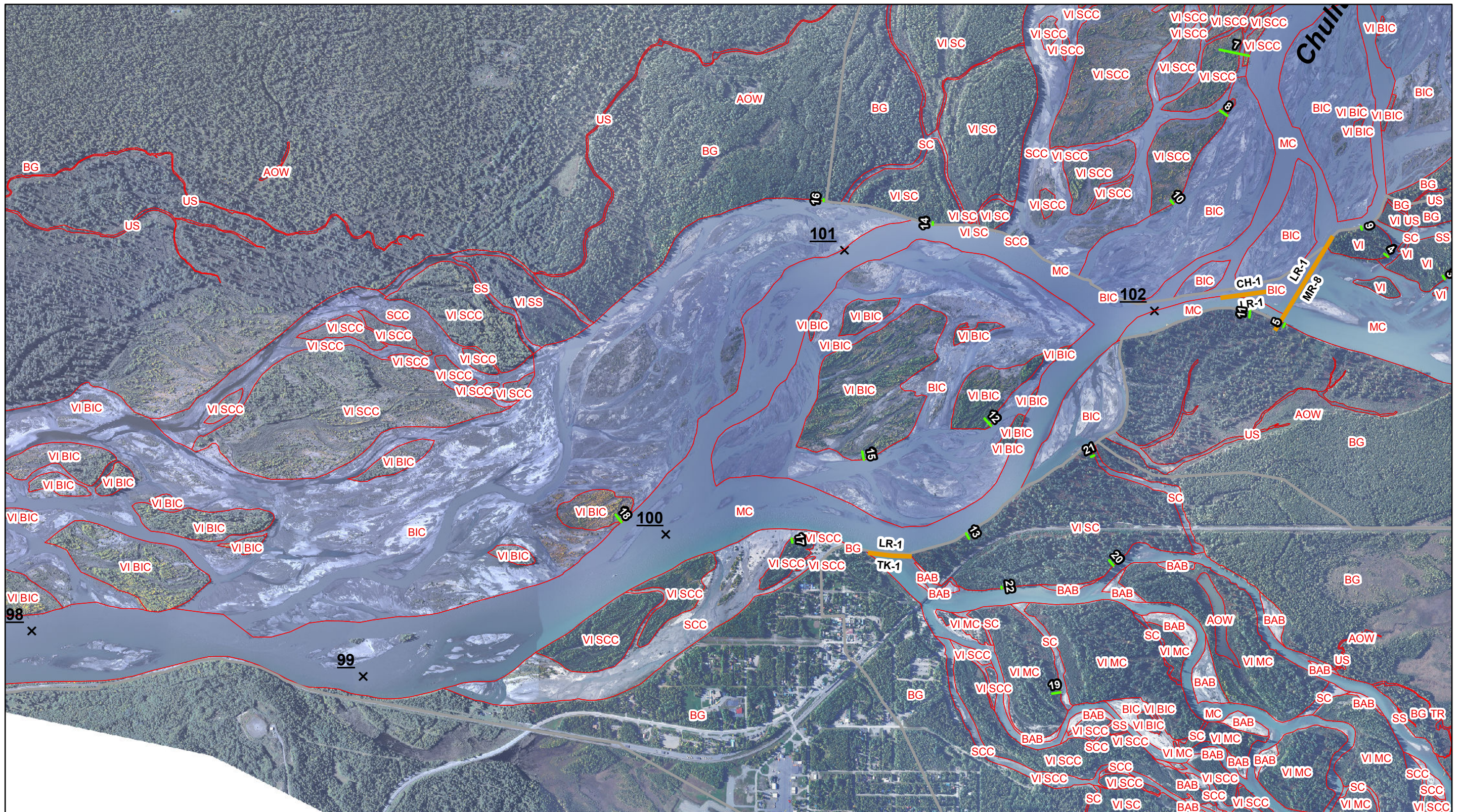
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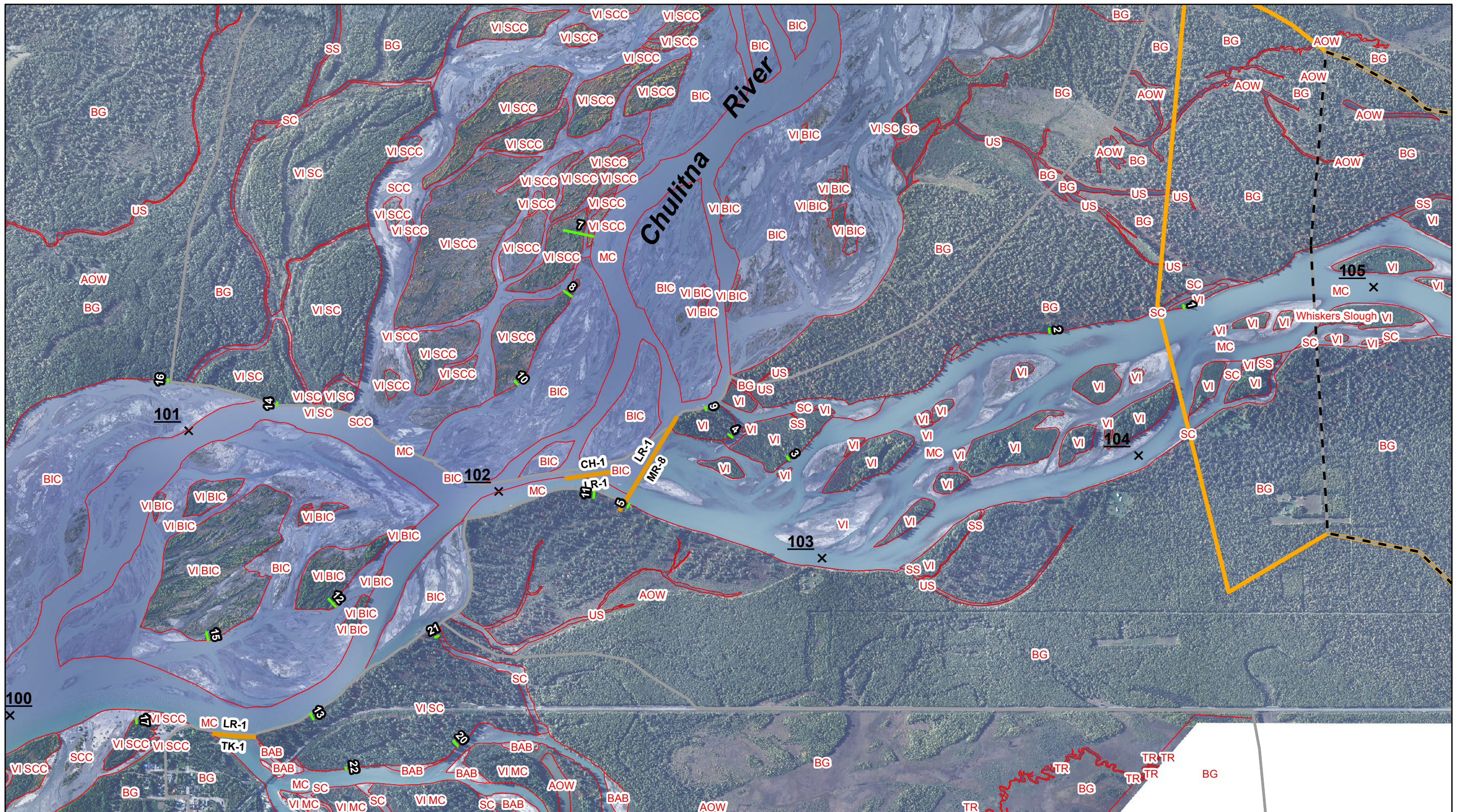


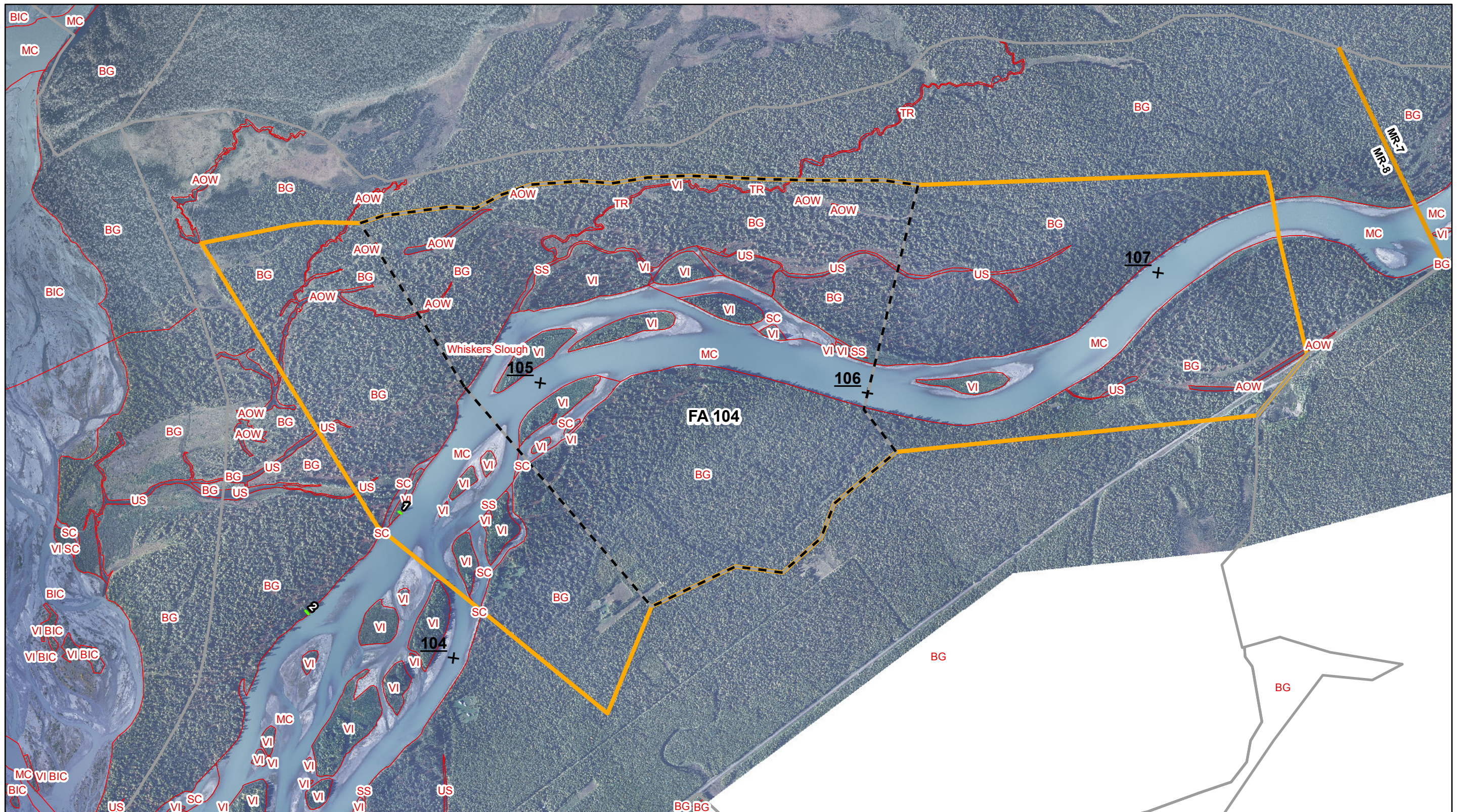


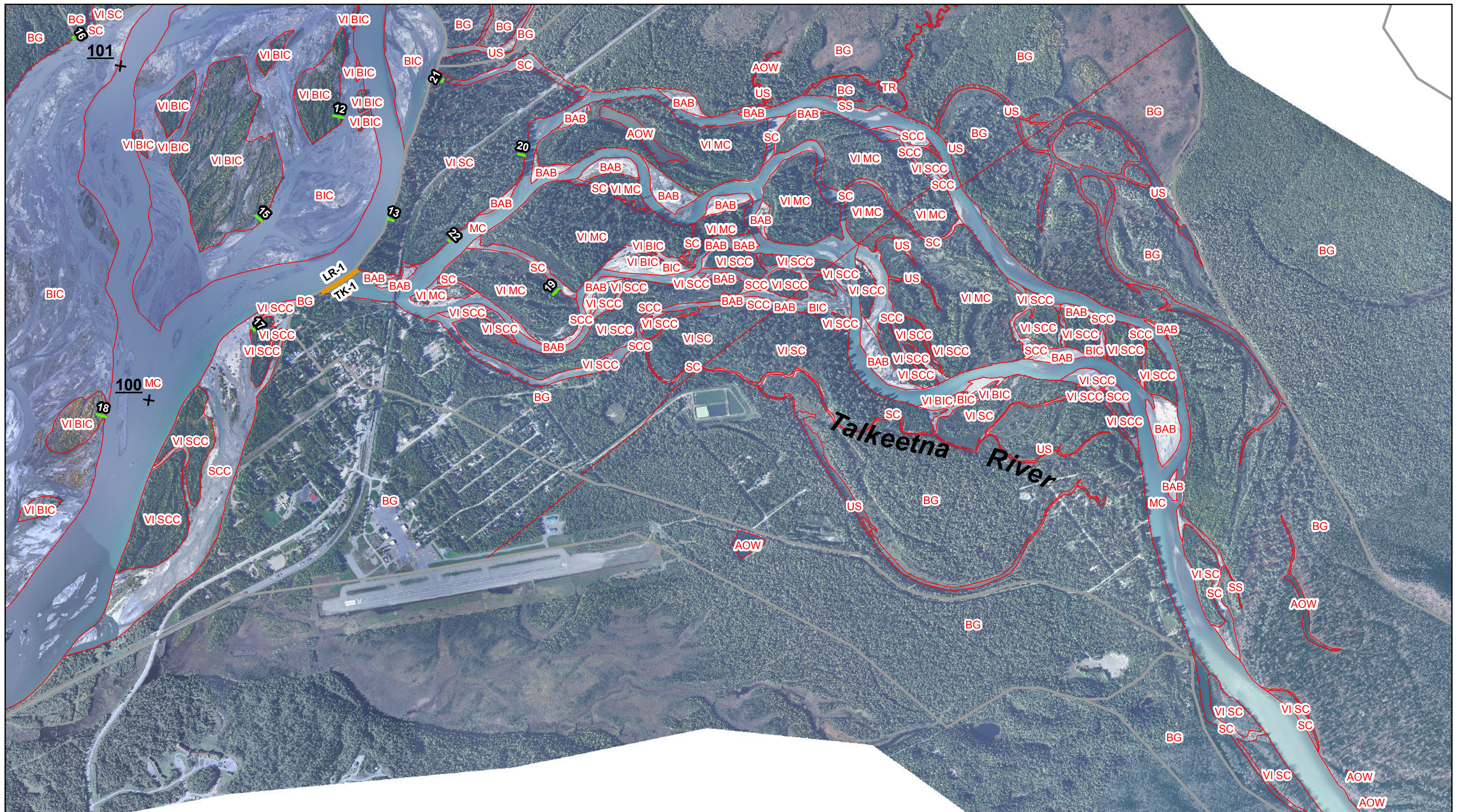


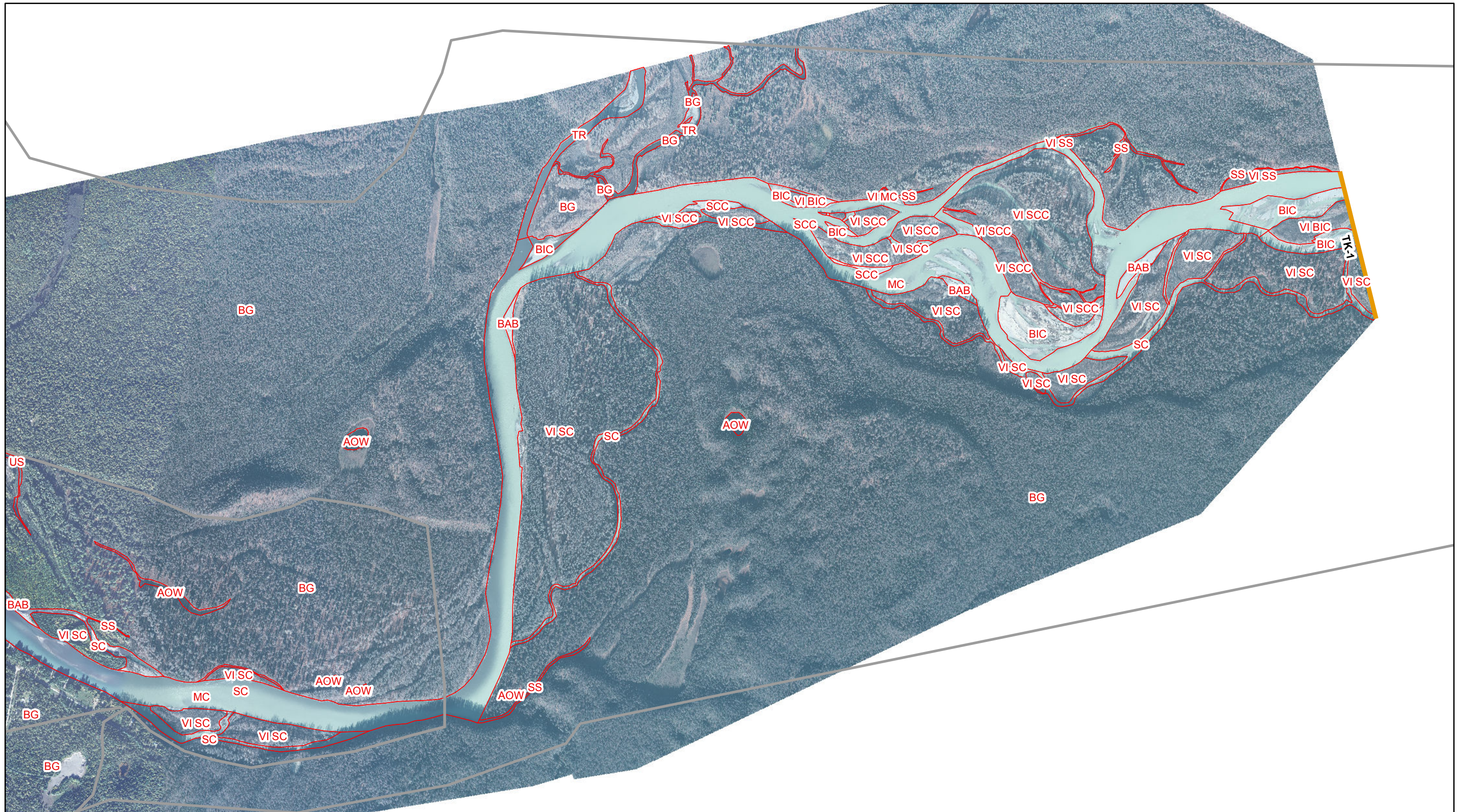


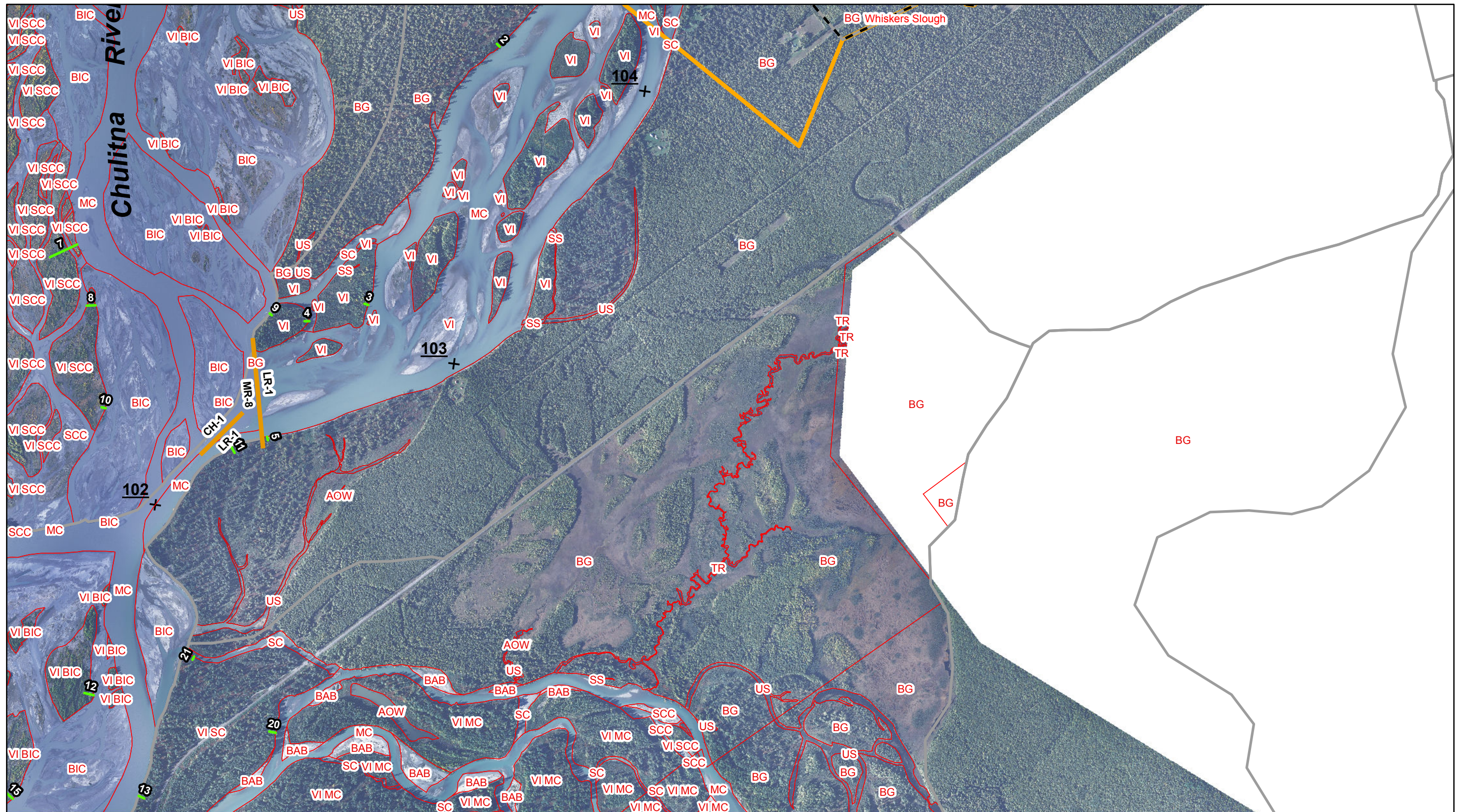












0 1,500 3,000 Feet
See index page for legend and additional data information.

Sheet 10 of 13

LR-1, MR-8, TK-1, CH-1
2012 GEOMORPHIC FEATURES

Location: PRM 77.7 - 102.4:	Imagery Date: 09/10/2012,	Discharge (Sunshine): 37,900 cfs	Location: PRM 102.4 - 143.6:	Imagery Date: 09/10/2012,	Discharge (Gold Creek): 12,900 cfs
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