APPENDIX 5. 2012 LOWER SUSITNA RIVER SEGMENT GEOMORPHIC FEATURES

Susitna-Watana Hydroelectric Project (FERC No. 14241)

Mapping of Geomorphic Features within the Middle and Lower Susitna River Segments from 1980s and 2012 Aerials

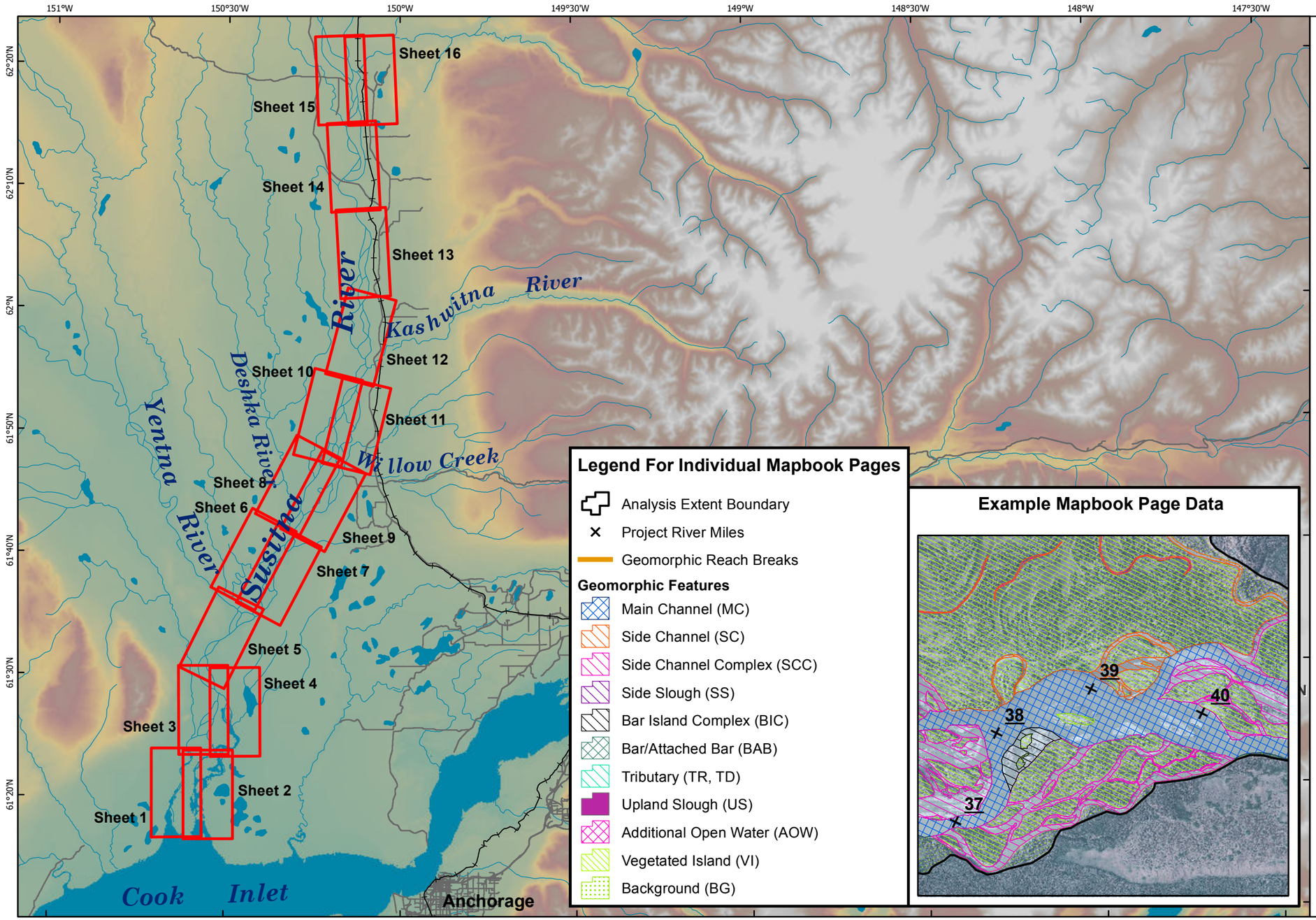
2012 Study Technical Memorandum

Prepared for
Alaska Energy Authority

SUSITNA-WATANA HYDRO
Clean, reliable energy for the next 100 years.

Prepared by
Tetra Tech Inc.

March 2013



Legend For Individual Mapbook Pages

- Analysis Extent Boundary
- Project River Miles
- Geomorphic Reach Breaks

Geomorphic Features

- Main Channel (MC)
- Side Channel (SC)
- Side Channel Complex (SCC)
- Side Slough (SS)
- Bar Island Complex (BIC)
- Bar/Attached Bar (BAB)
- Tributary (TR, TD)
- Upland Slough (US)
- Additional Open Water (AOW)
- Vegetated Island (VI)
- Background (BG)

Example Mapbook Page Data

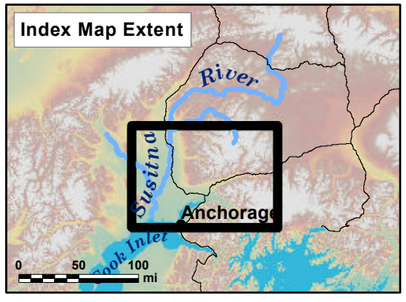
ALASKA ENERGY AUTHORITY

LOWER SUSITNA RIVER SEGMENT GEOMORPHIC FEATURES 2012

Legend

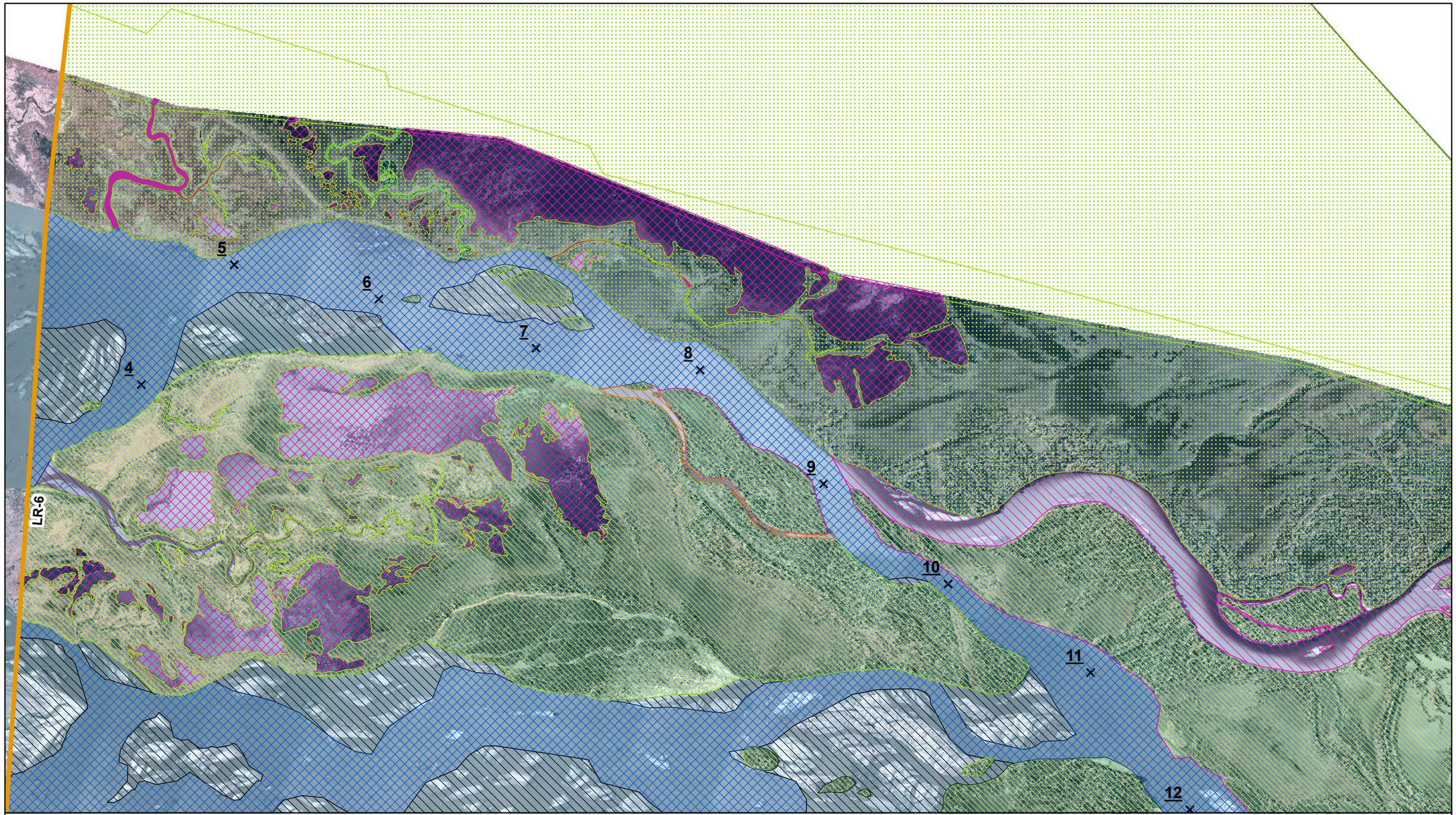
- Sheet Extents
- Roads
- Railroads
- Rivers and Streams
- Waterbodies

Data Sources: See Map References



0 10 20 mi

Projection: NAD83 State Plane Alaska 4 FIPS 5004 (ft)
Date Created: 3/14/2013
Map Author: Tetra Tech
File: 2012_MapbookGeomorph_Lower_v1.mxd



0 3,000 6,000 Feet

1 inch = 3,000 feet

Sheet 1 of 16

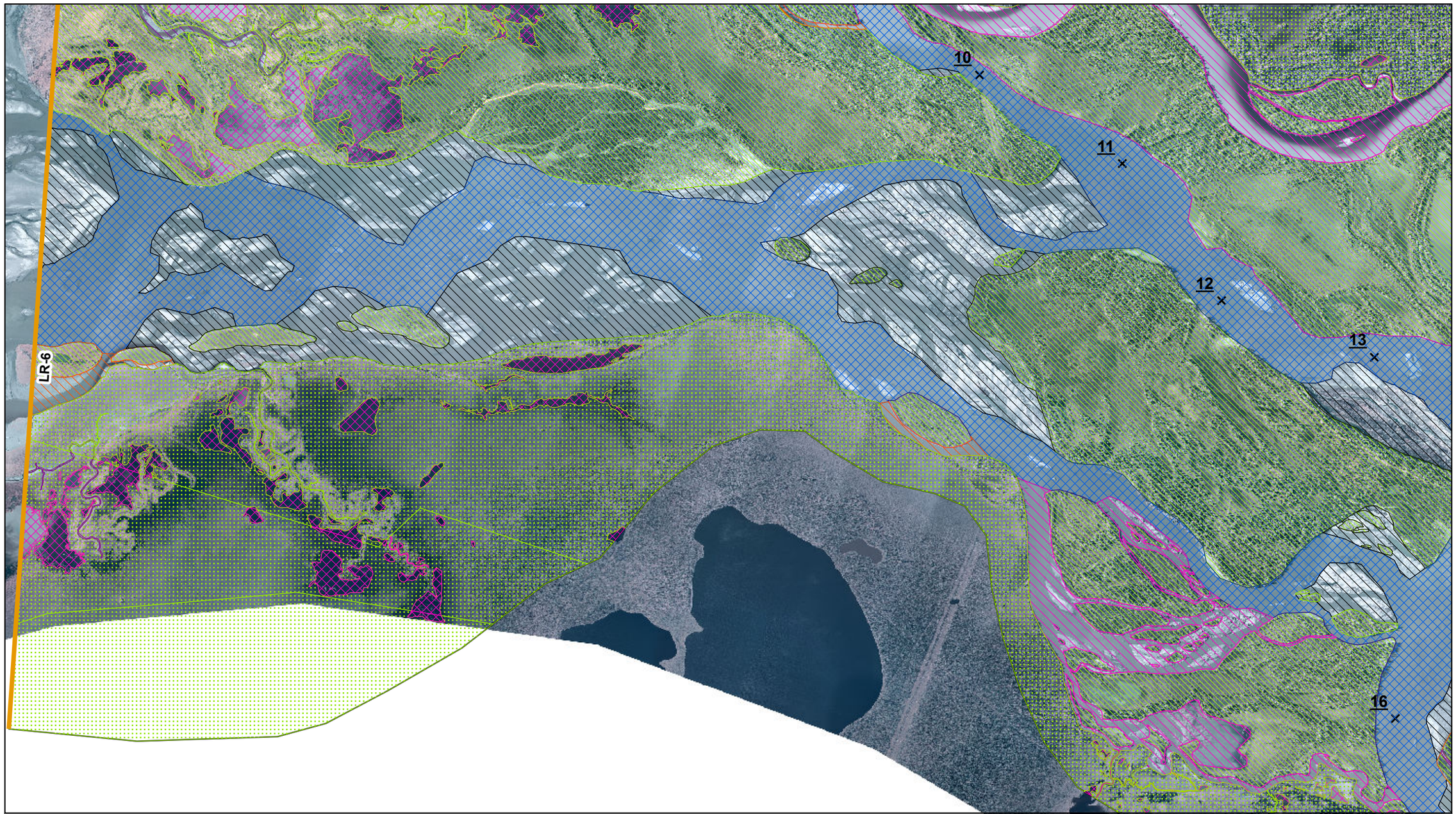
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LOWER SUSITNA RIVER SEGMENT
2012 GEOMORPHIC FEATURES

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PRM 22.5 - 33.5, 69 - 78:	09/30/2012,	48,000 cfs

Location:	Imagery Date,	Discharge (Sunshine)
PRM 78 - 102:	09/10/2012,	38,200 cfs

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0 3,000 6,000 Feet

1 inch = 3,000 feet

Sheet 2 of 16

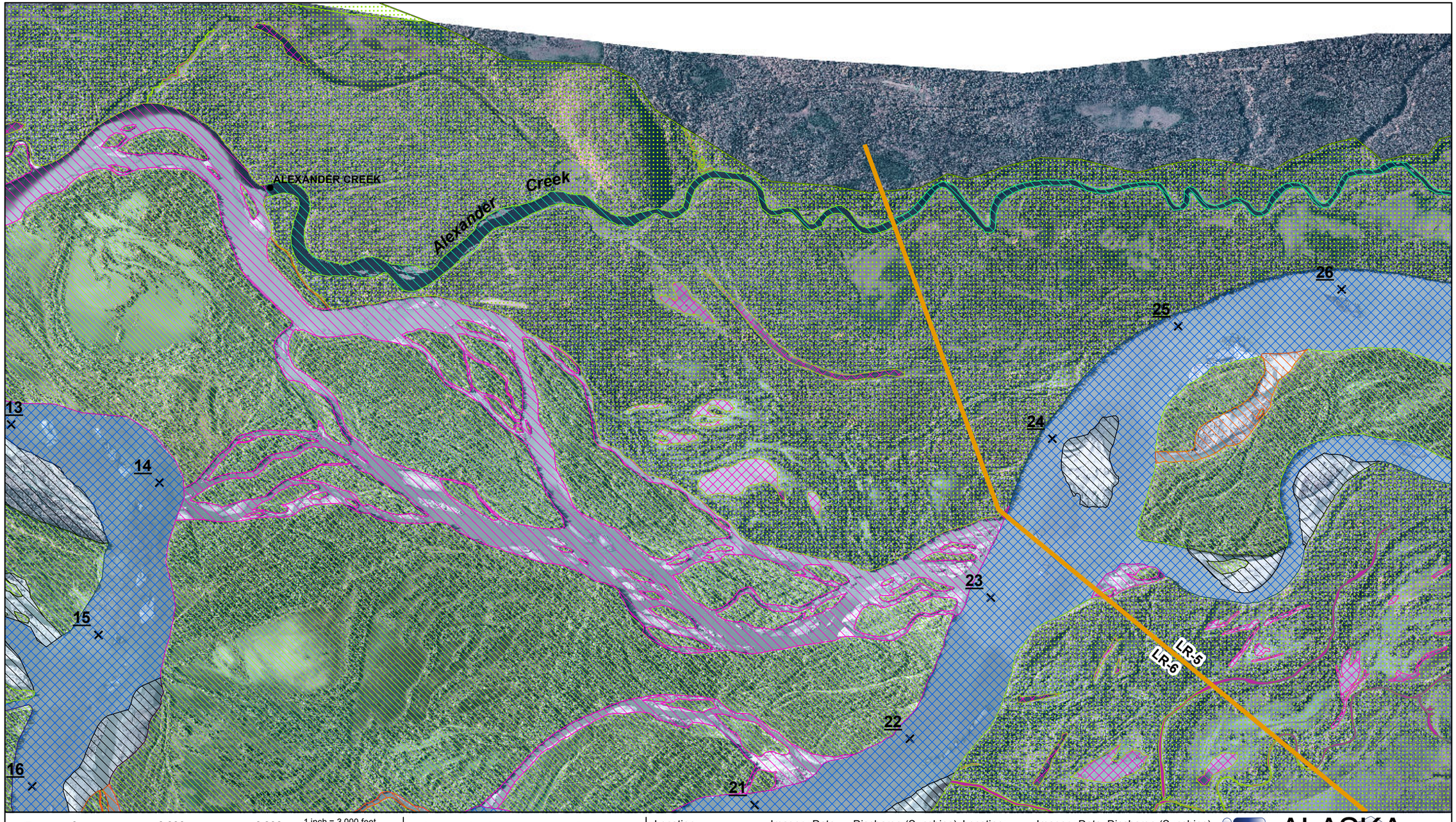
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0 3,000 6,000 Feet

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Sheet 3 of 16

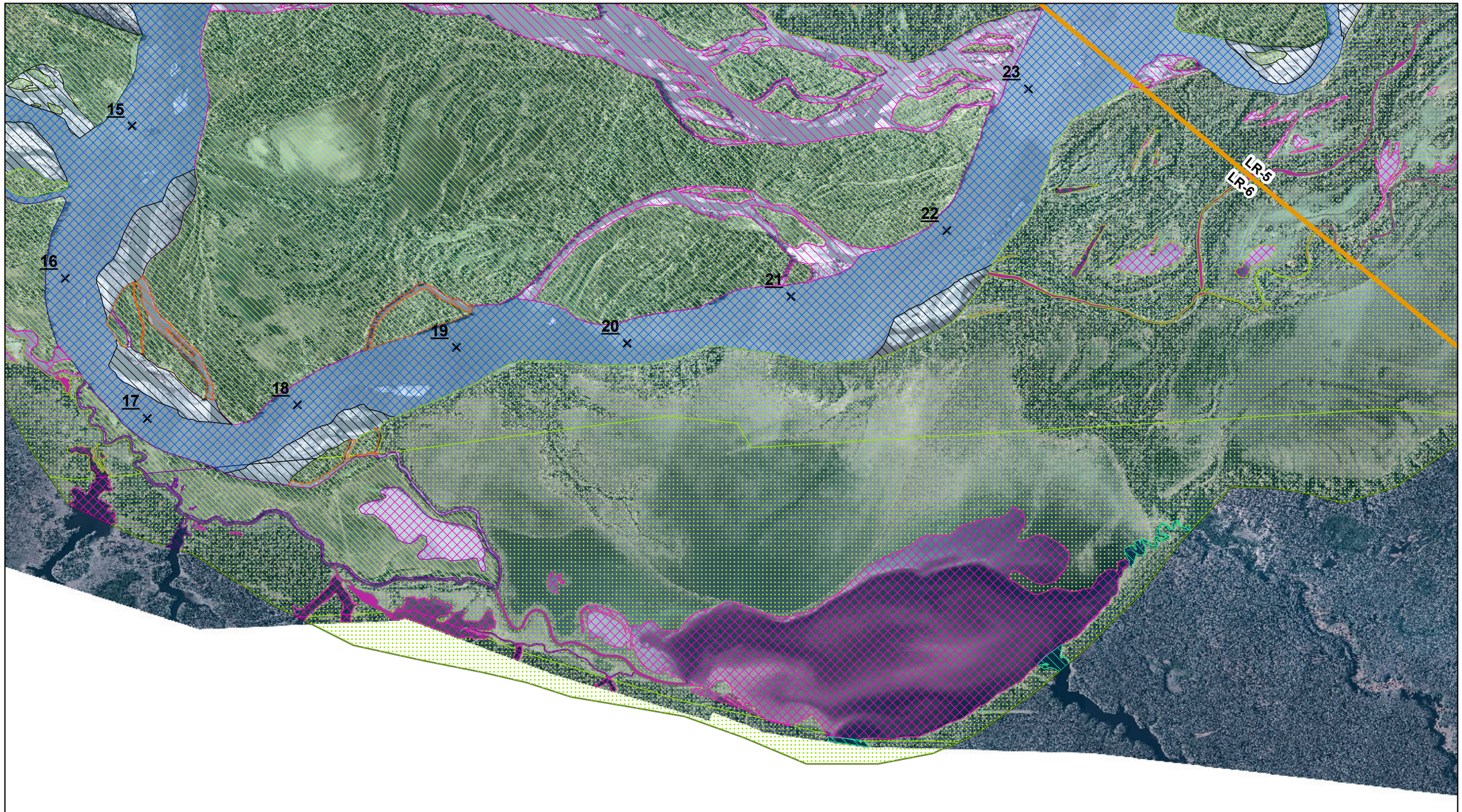
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2012 GEOMORPHIC FEATURES

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PRM 22.5 - 33.5, 69 - 78:	09/30/2012,	48,000 cfs

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0 3,000 6,000 Feet

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Sheet 4 of 16

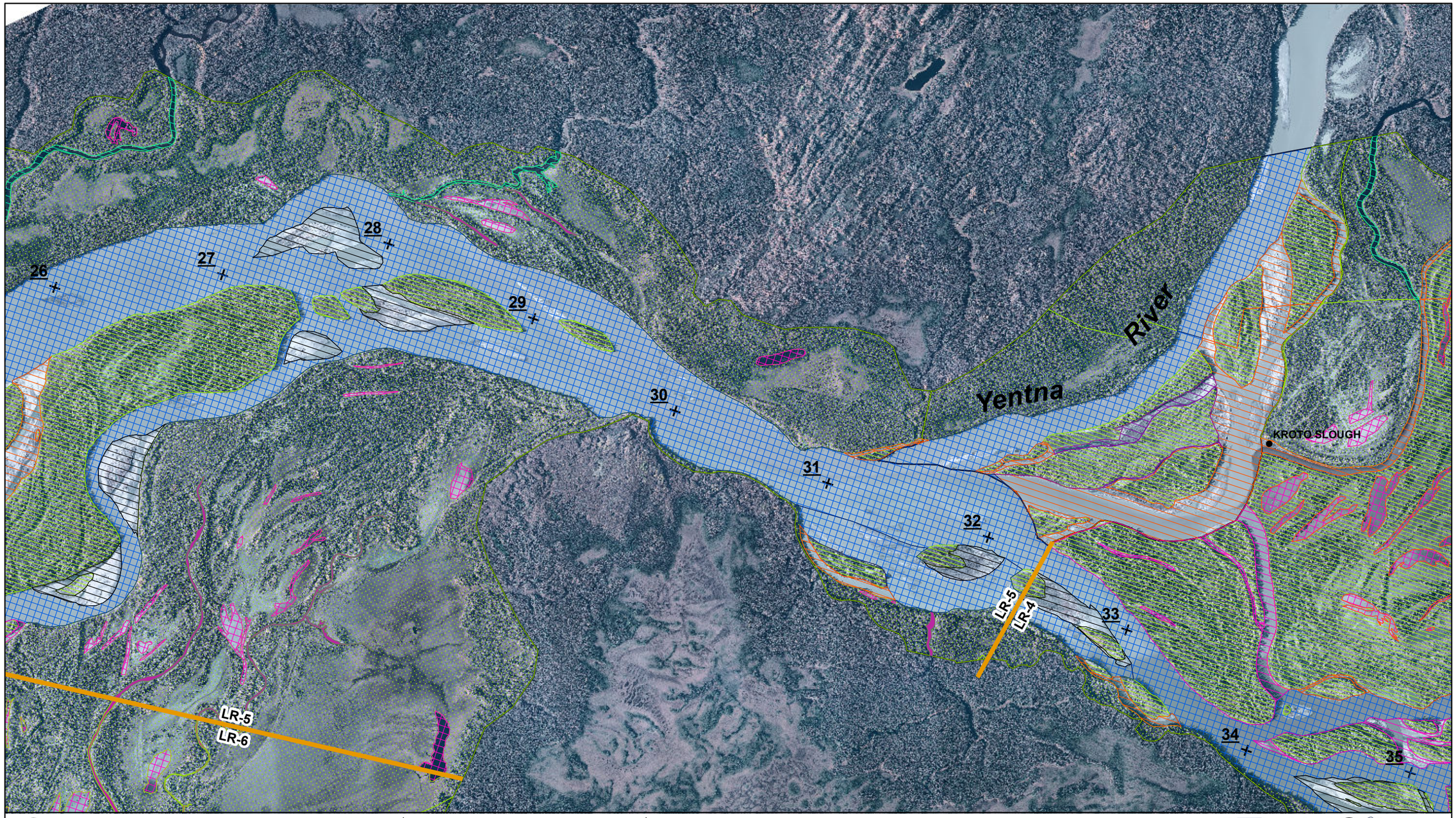
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0 3,000 6,000 Feet

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Sheet 5 of 16

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2012 GEOMORPHIC FEATURES

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Sheet 6 of 16

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2012 GEOMORPHIC FEATURES

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Location:	Imagery Date,	Discharge (Sunshine)
PRM 78 - 102:	09/10/2012,	38,200 cfs

ALASKA ENERGY AUTHORITY

KROTO SLOUGH

DESHKA RIVER

35

36 EAGLES NEST SIDE CHANNEL

37

HOOLIGAN SIDE CHANNEL

38

39

40

41

42

43

44

45

LR-3

LR-4

0 3,000 6,000 Feet

1 inch = 3,000 feet

Sheet 7 of 16

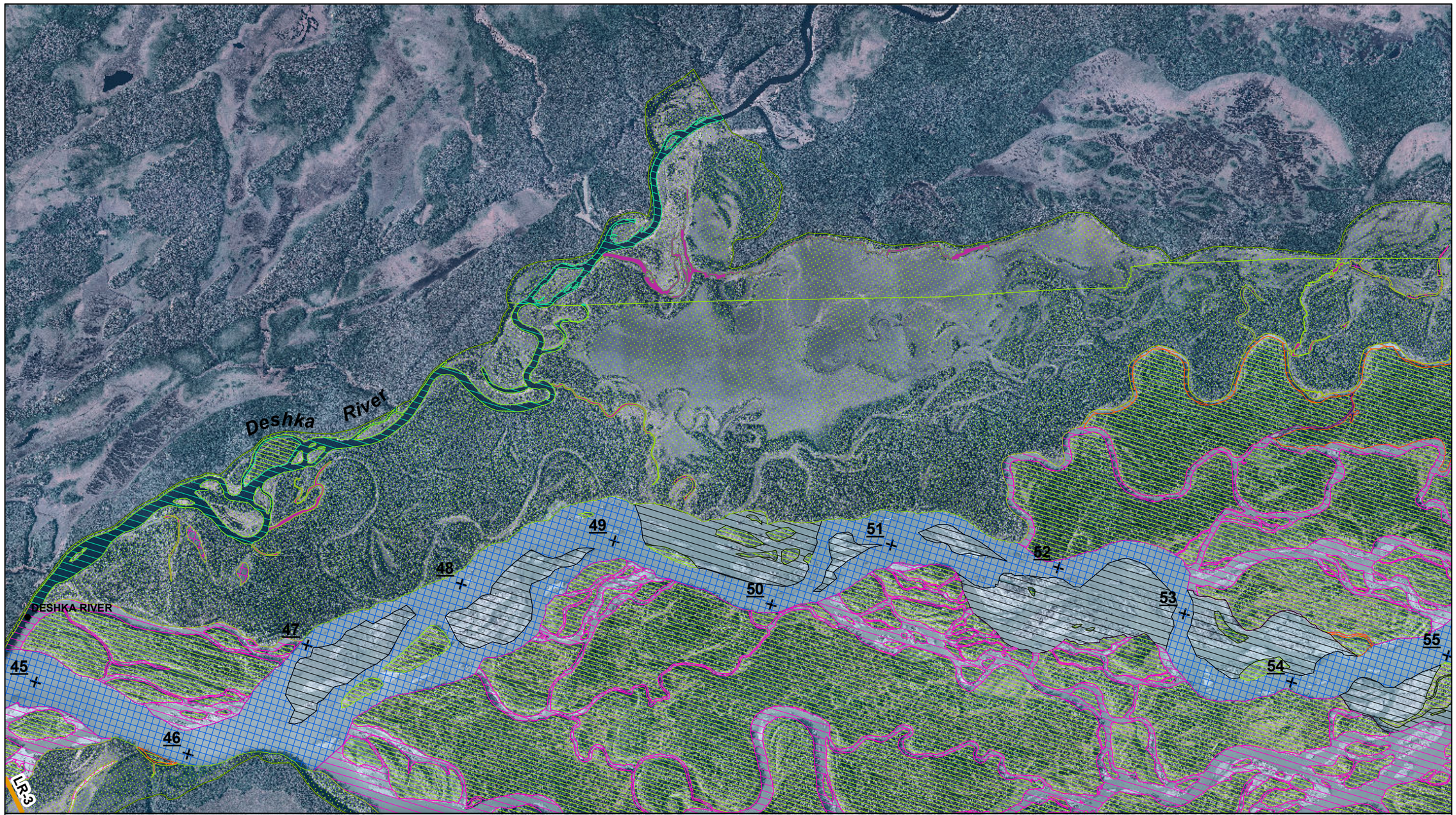
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Sheet 8 of 16

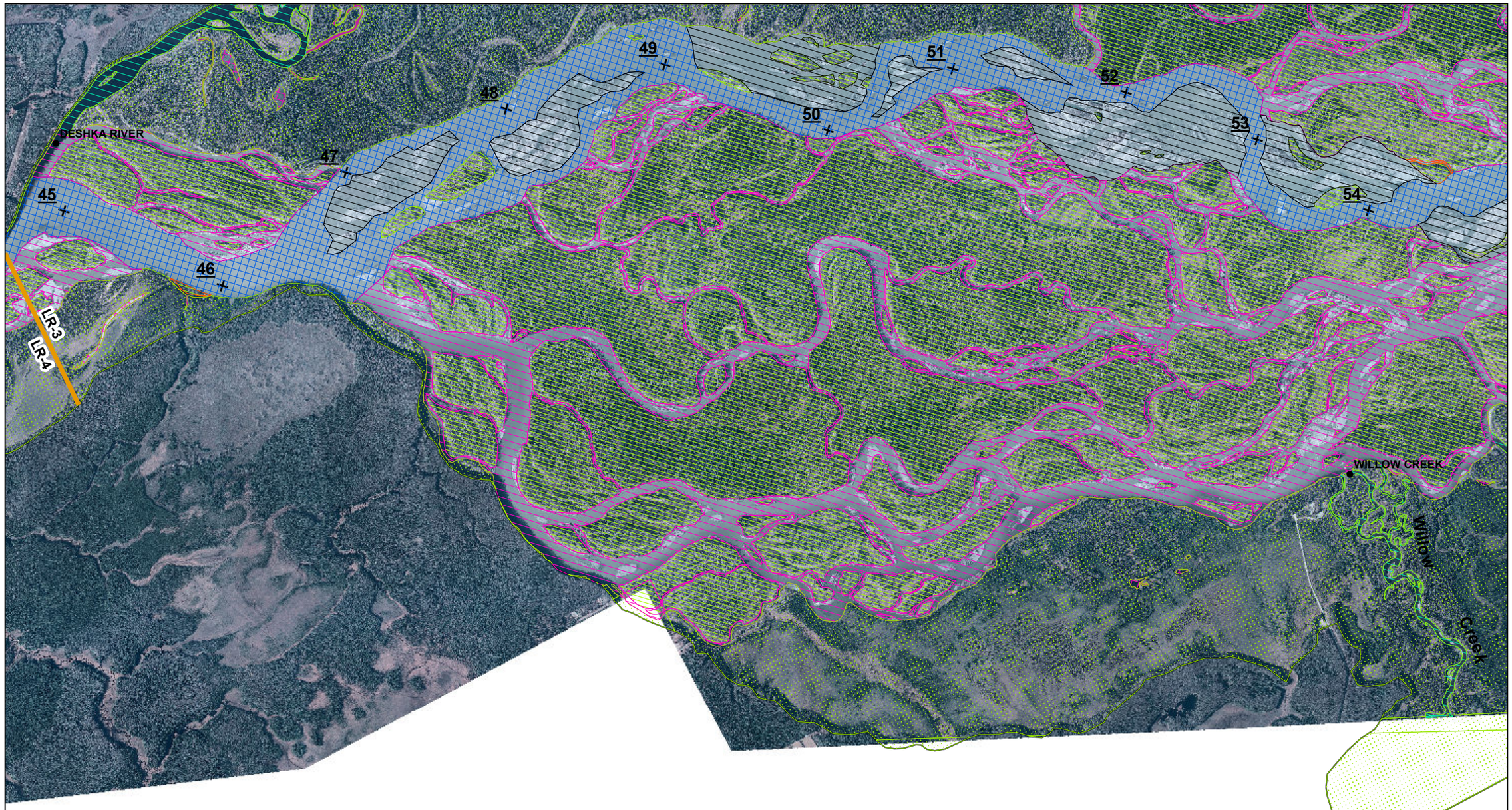
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Sheet 9 of 16

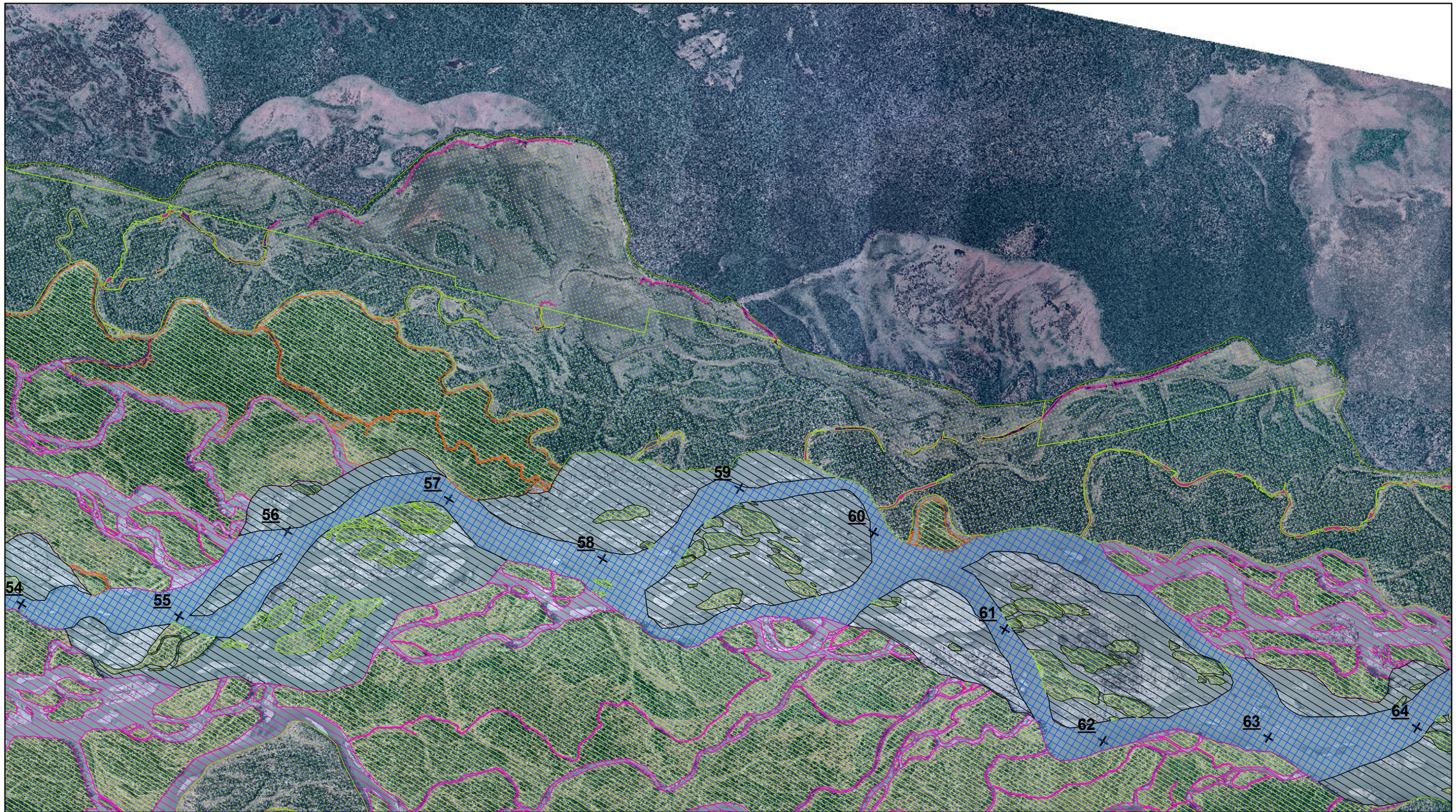
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Sheet 10 of 16

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Sheet 11 of 16

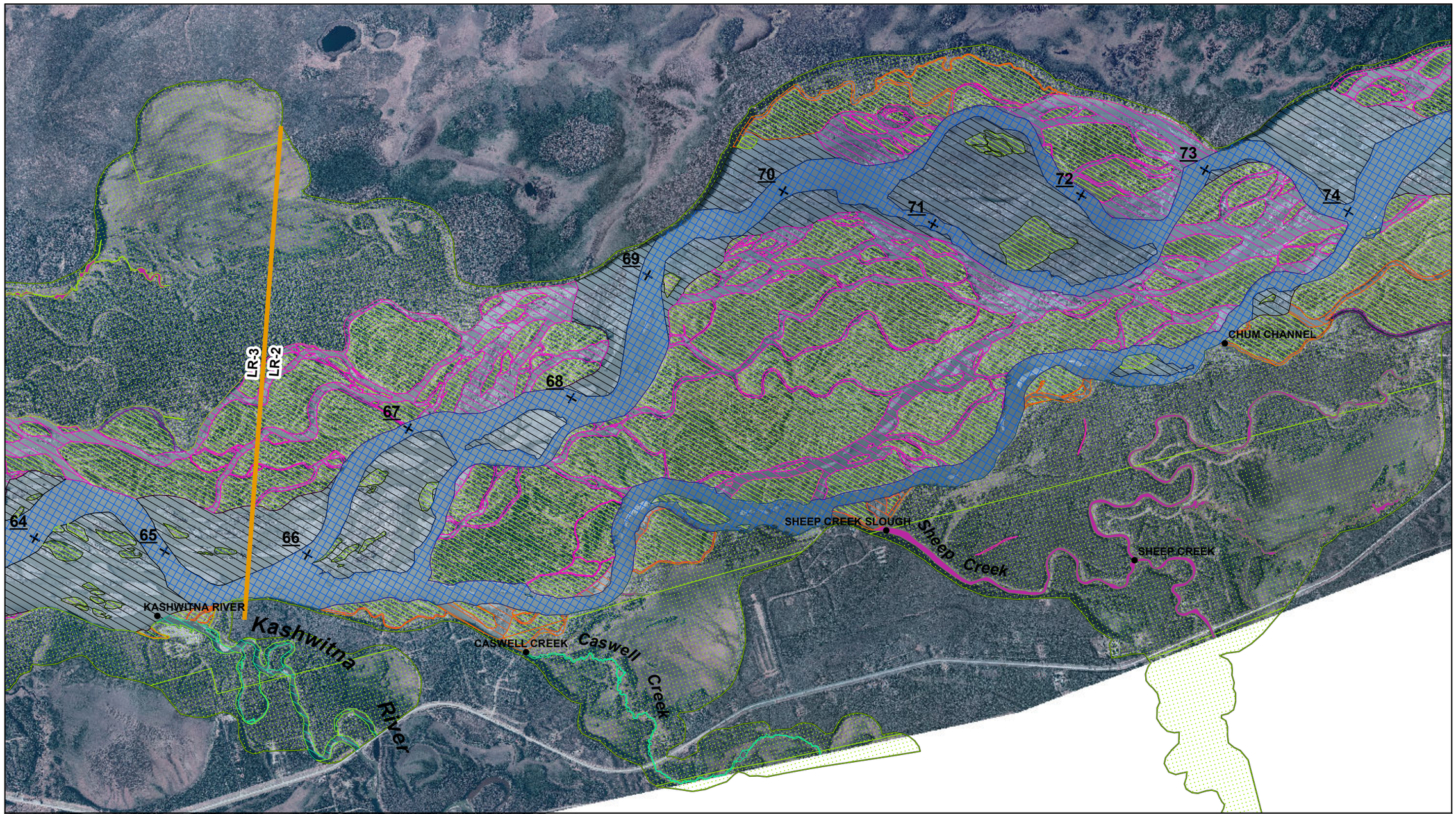
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0 3,000 6,000 Feet

1 inch = 3,000 feet

Sheet 12 of 16

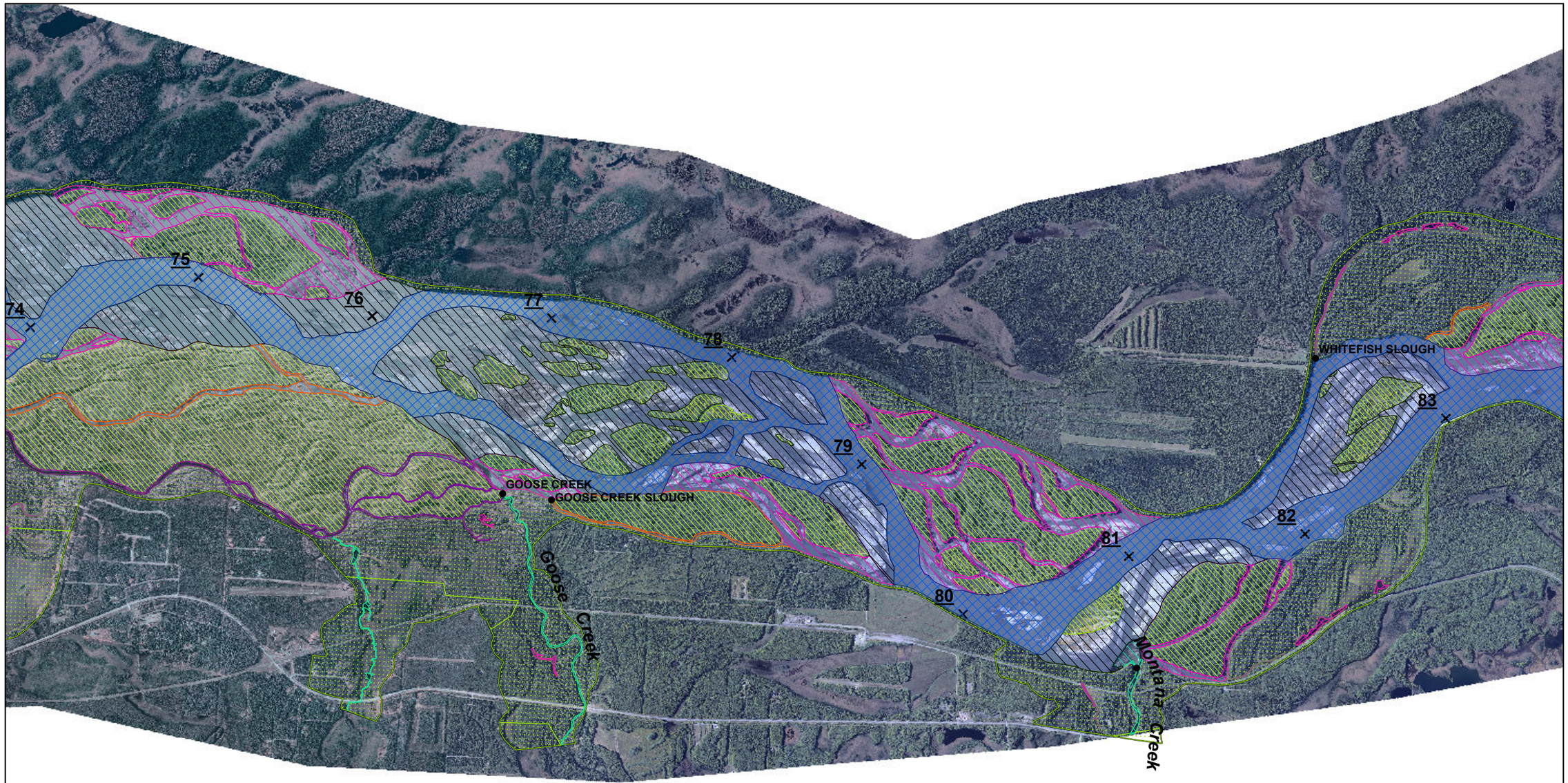
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0 3,000 6,000 Feet

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Sheet 13 of 16

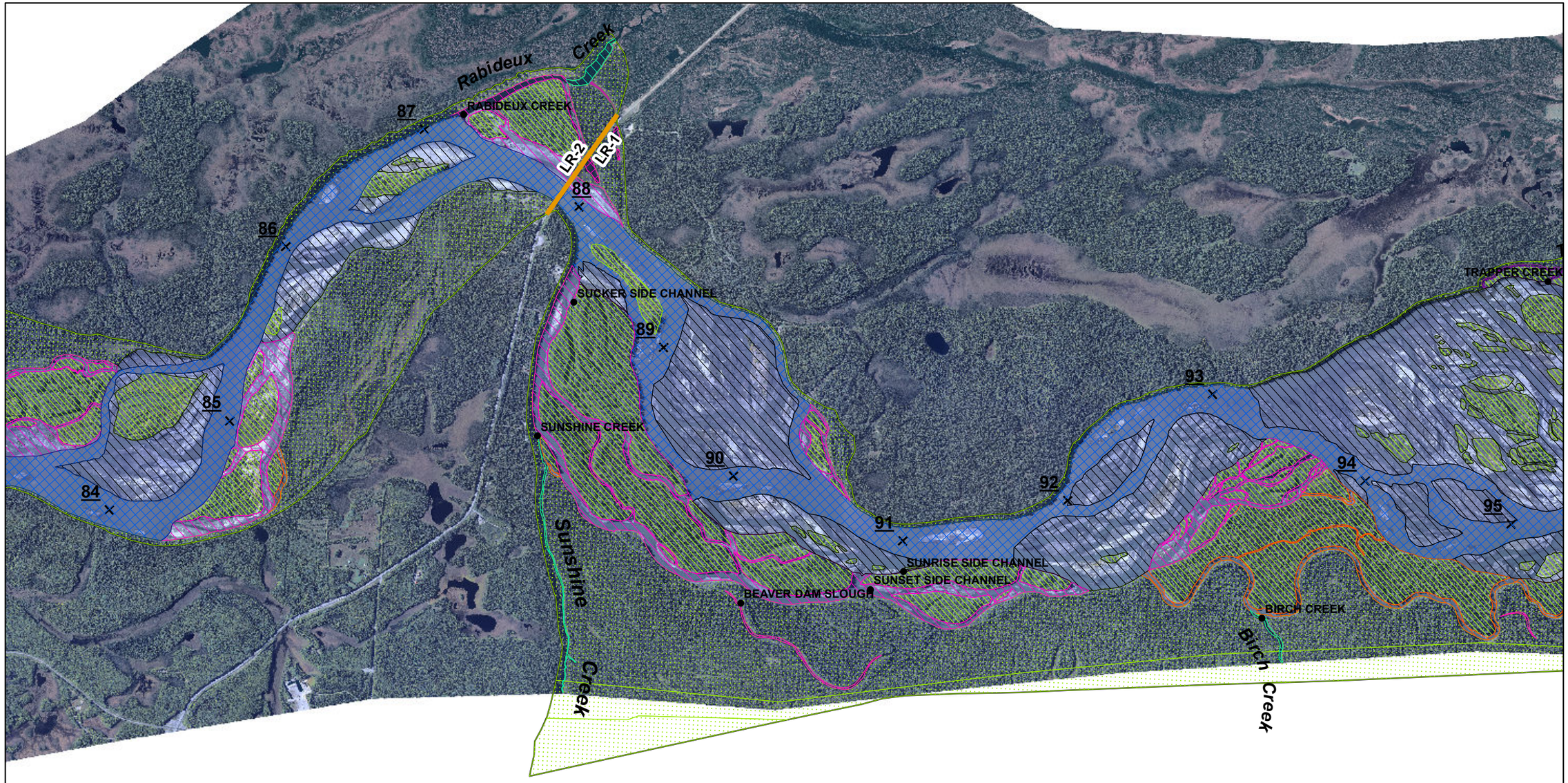
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0 3,000 6,000 Feet

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Trapper Creek

TRAPPER CREEK

Chulitna River

96

97

98

99

100

101

102

LR-1

MR-8

103

104

105

0 3,000 6,000 Feet

1 inch = 3,000 feet

Sheet 15 of 16

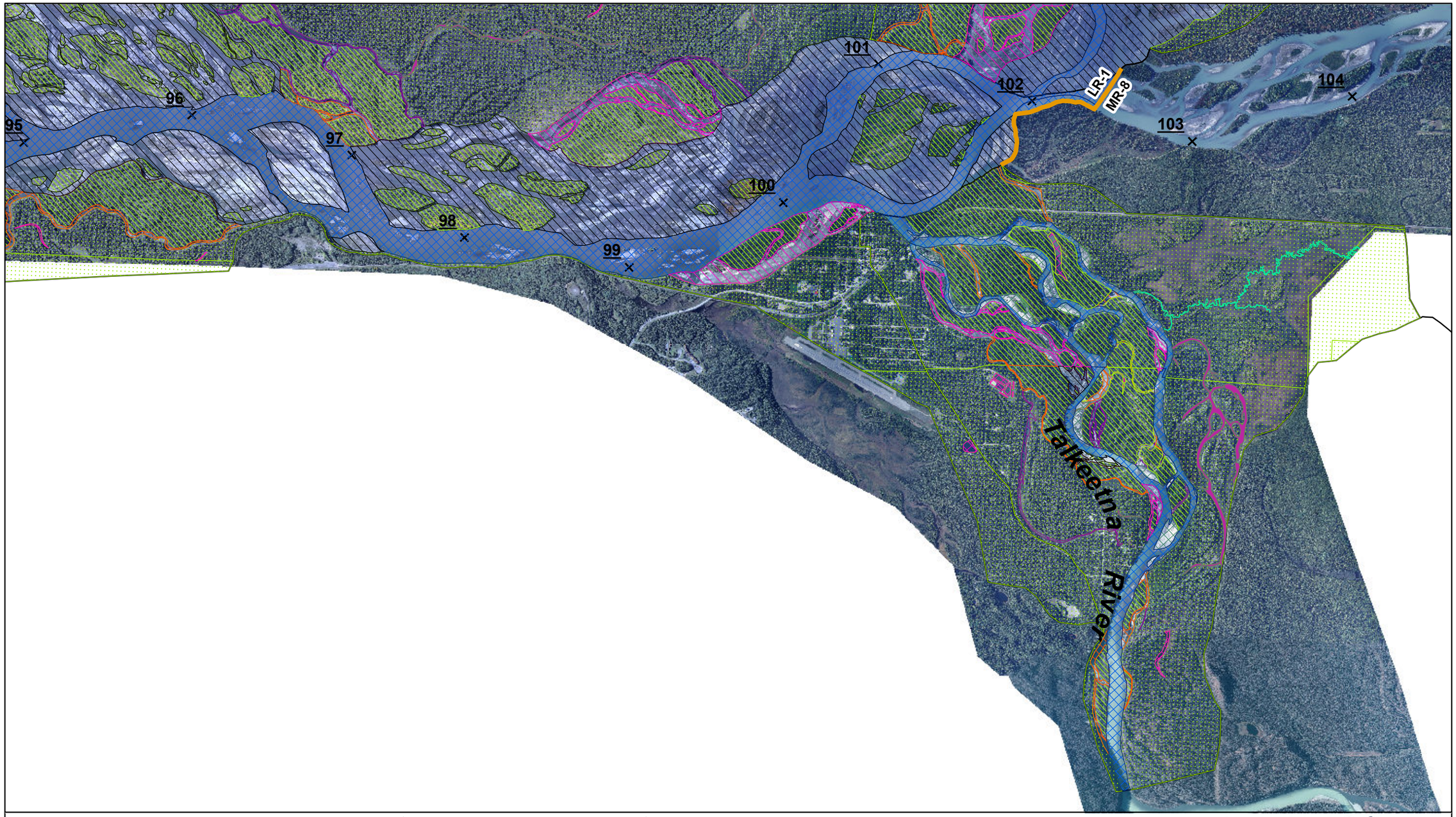
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Sheet 16 of 16

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