

# Susitna-Watana Hydroelectric Project Document

## ARLIS Uniform Cover Page

<b>Title:</b>  Geomorphology study (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. Appendices	<b>SuWa 241</b>
<b>Author(s) – Personal:</b>	
<b>Author(s) – Corporate:</b>  Tetra Tech, Inc.	
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<b>Notes:</b> Contents of this volume: Appendices A-T.  The main report (that this set of appendices supplement) is in the regular collection: TK1425.S8S92 no.241	

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**APPENDIX A. 1950s MIDDLE SUSITNA RIVER SEGMENT GEOMORPHIC FEATURES**

**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

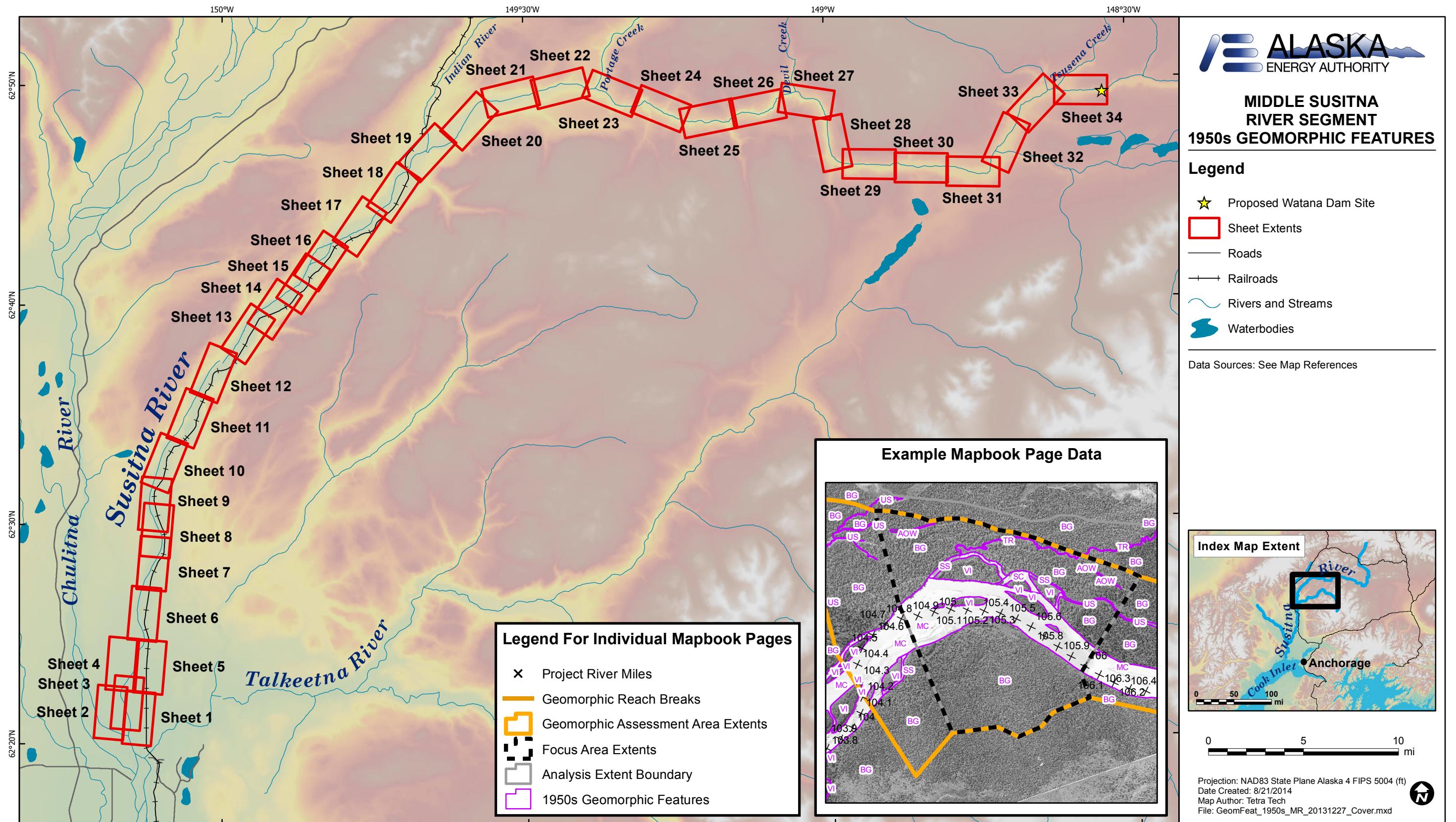
Alaska Energy Authority

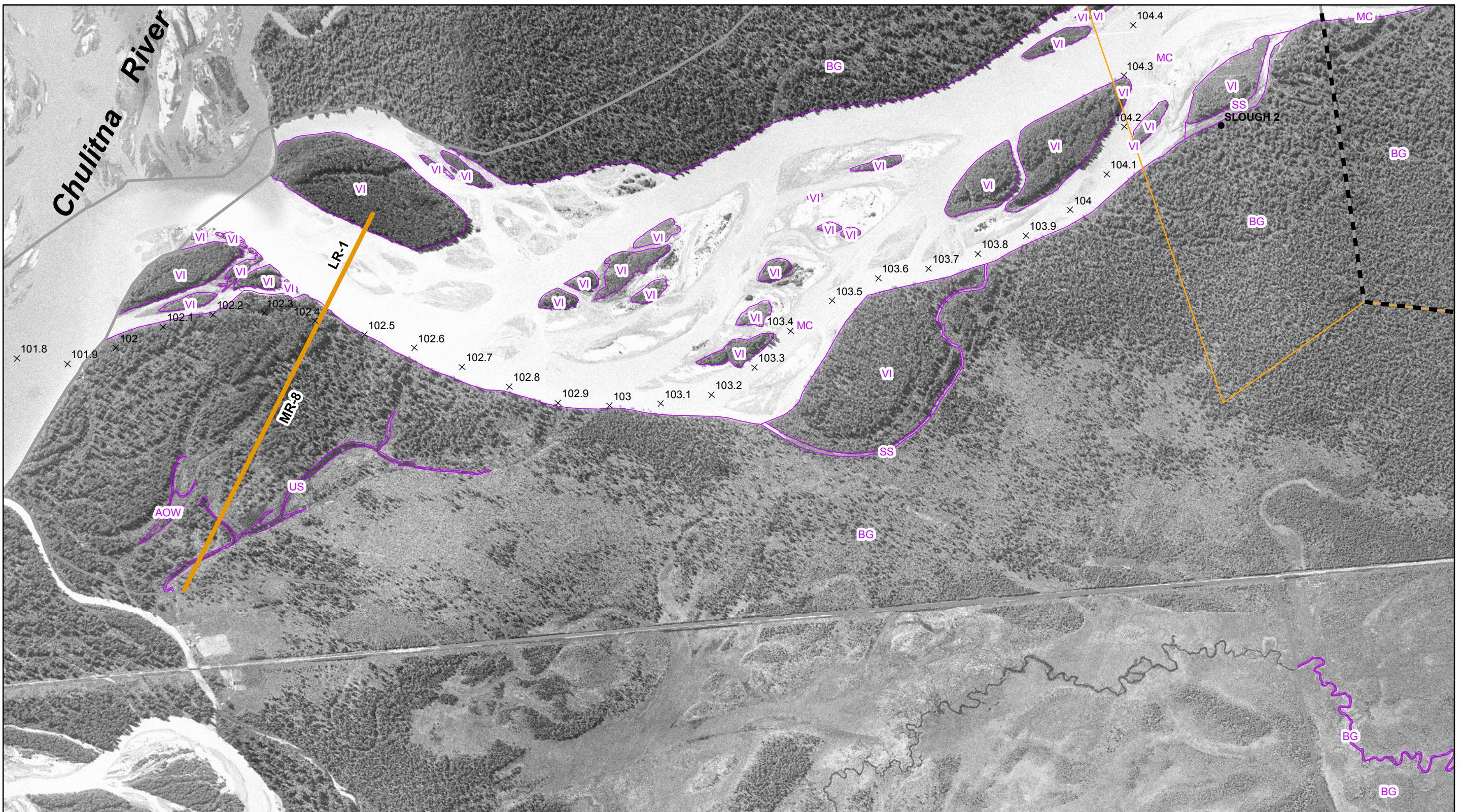


Prepared by

Tetra Tech Inc.

September 2014





**MIDDLE SUSITNA RIVER SEGMENT  
1950s GEOMORPHIC FEATURES**

Sheet 1 of 34

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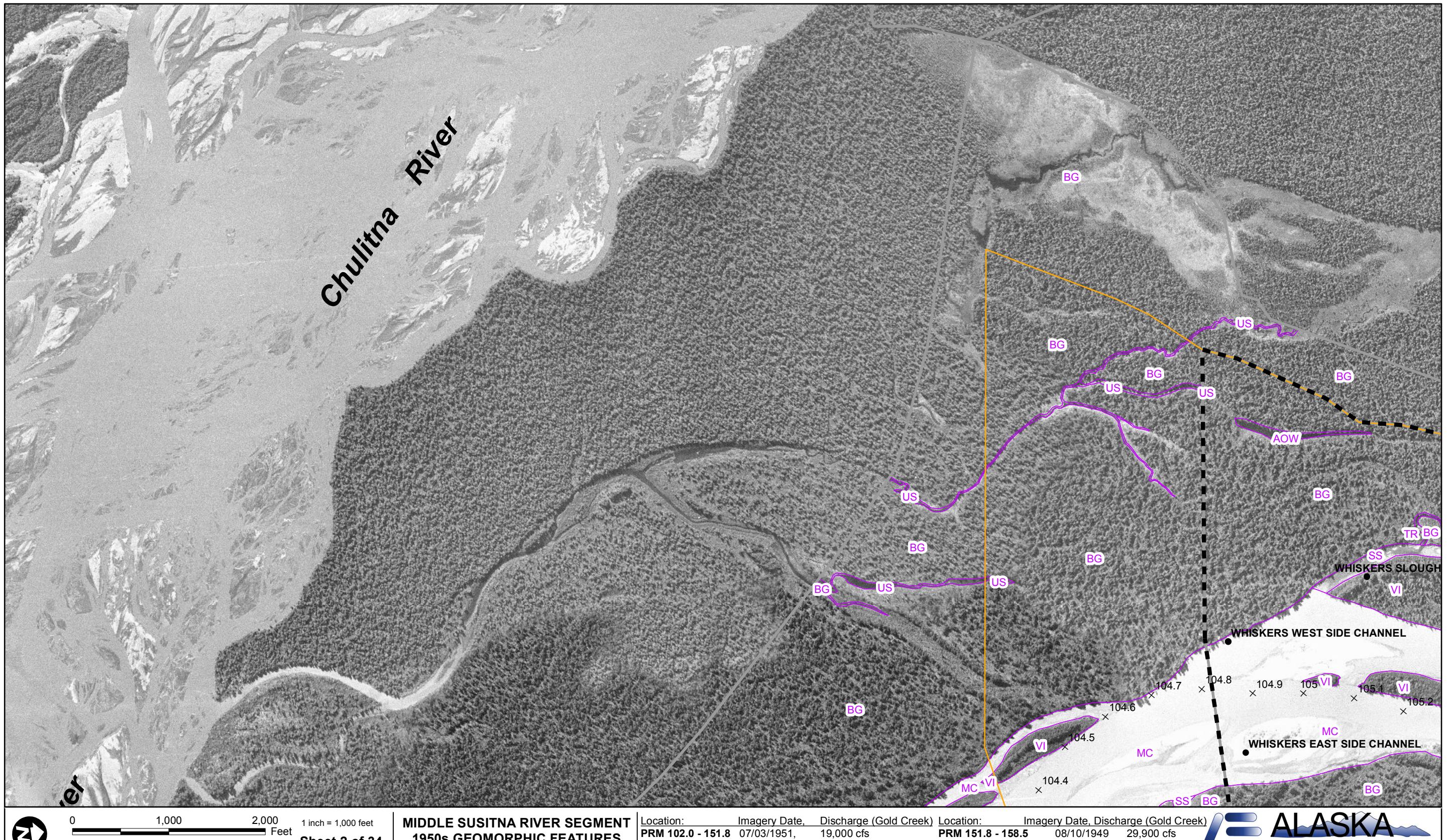
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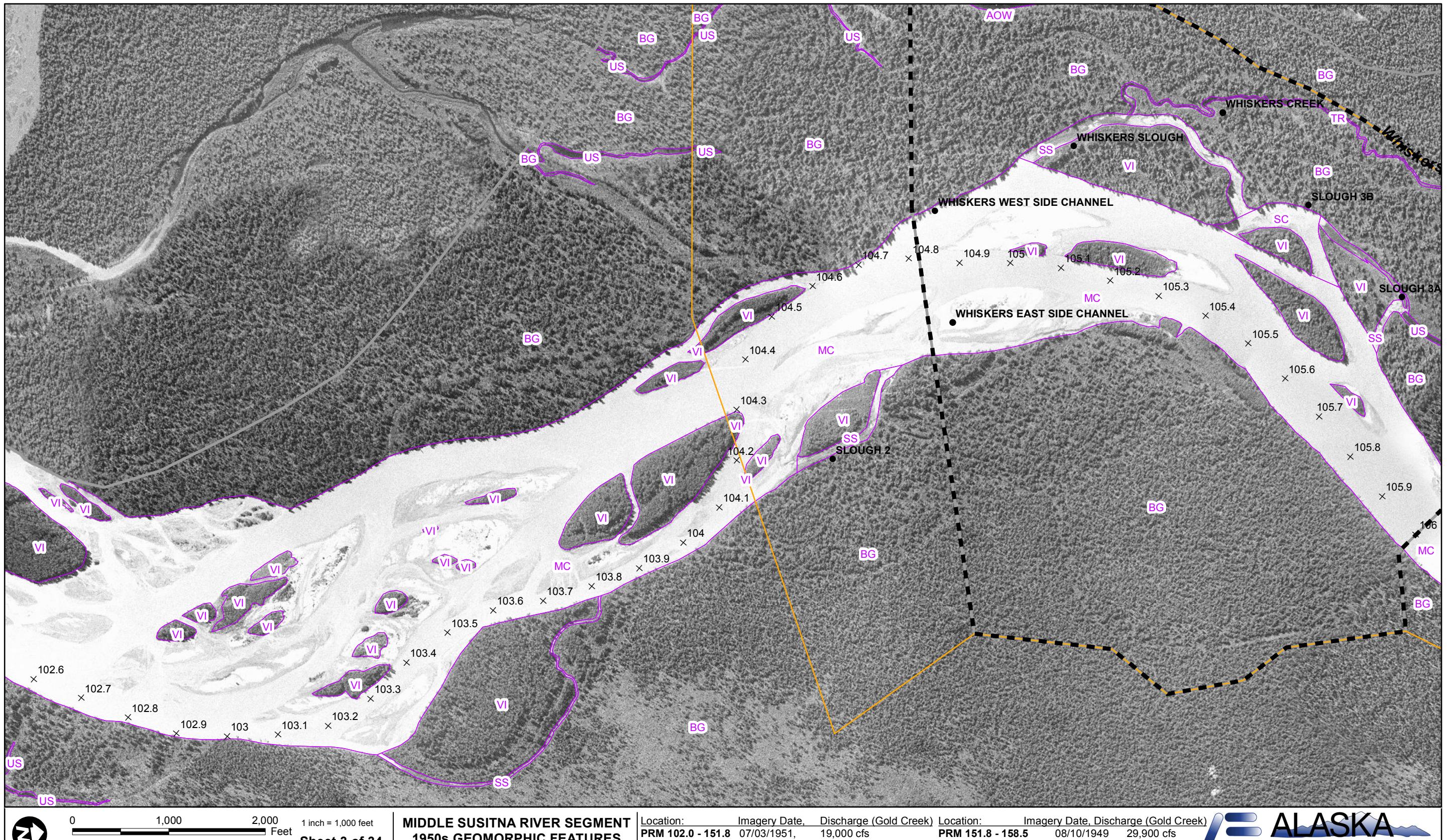
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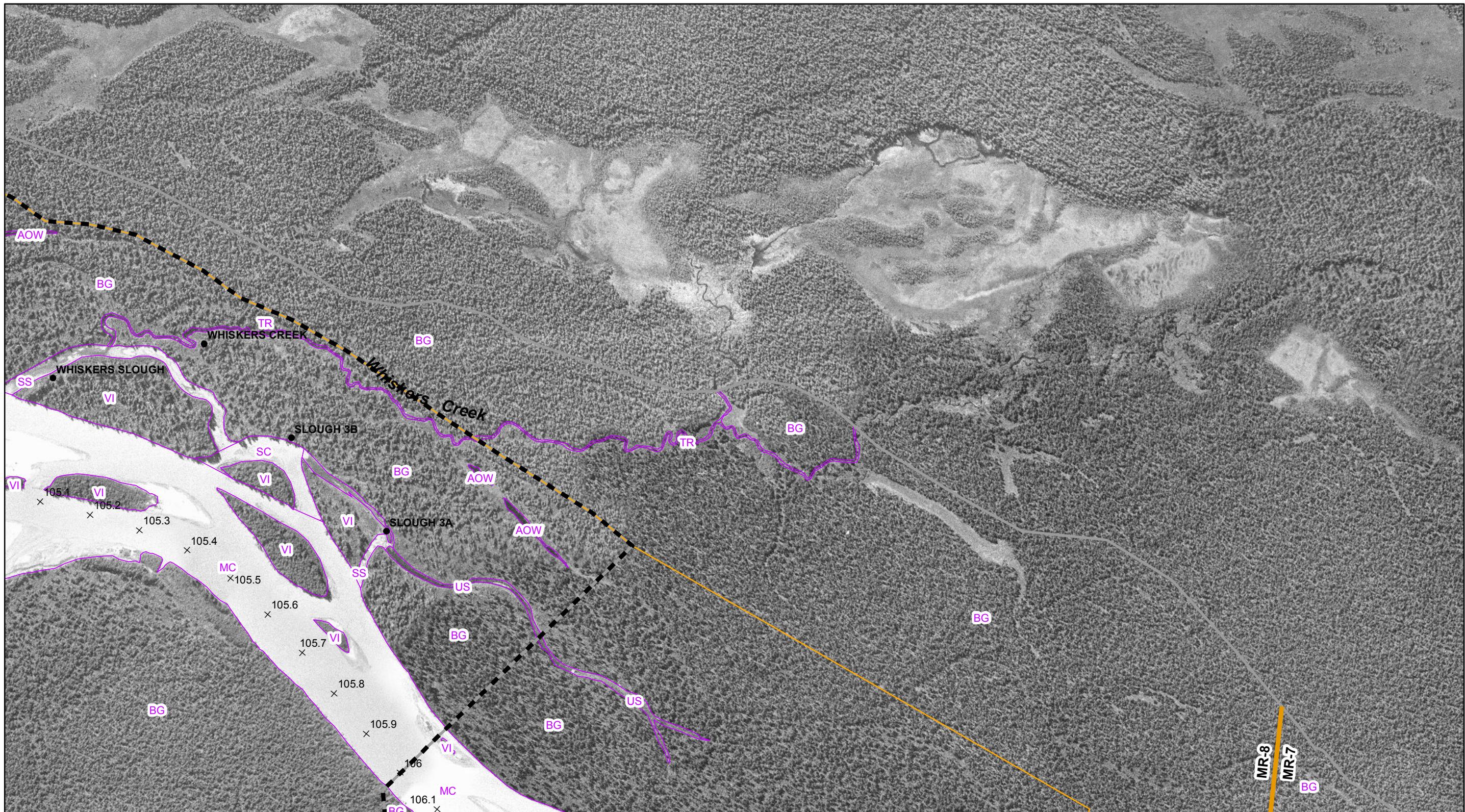
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See index page for legend and additional data information.

**ALASKA ENERGY AUTHORITY**







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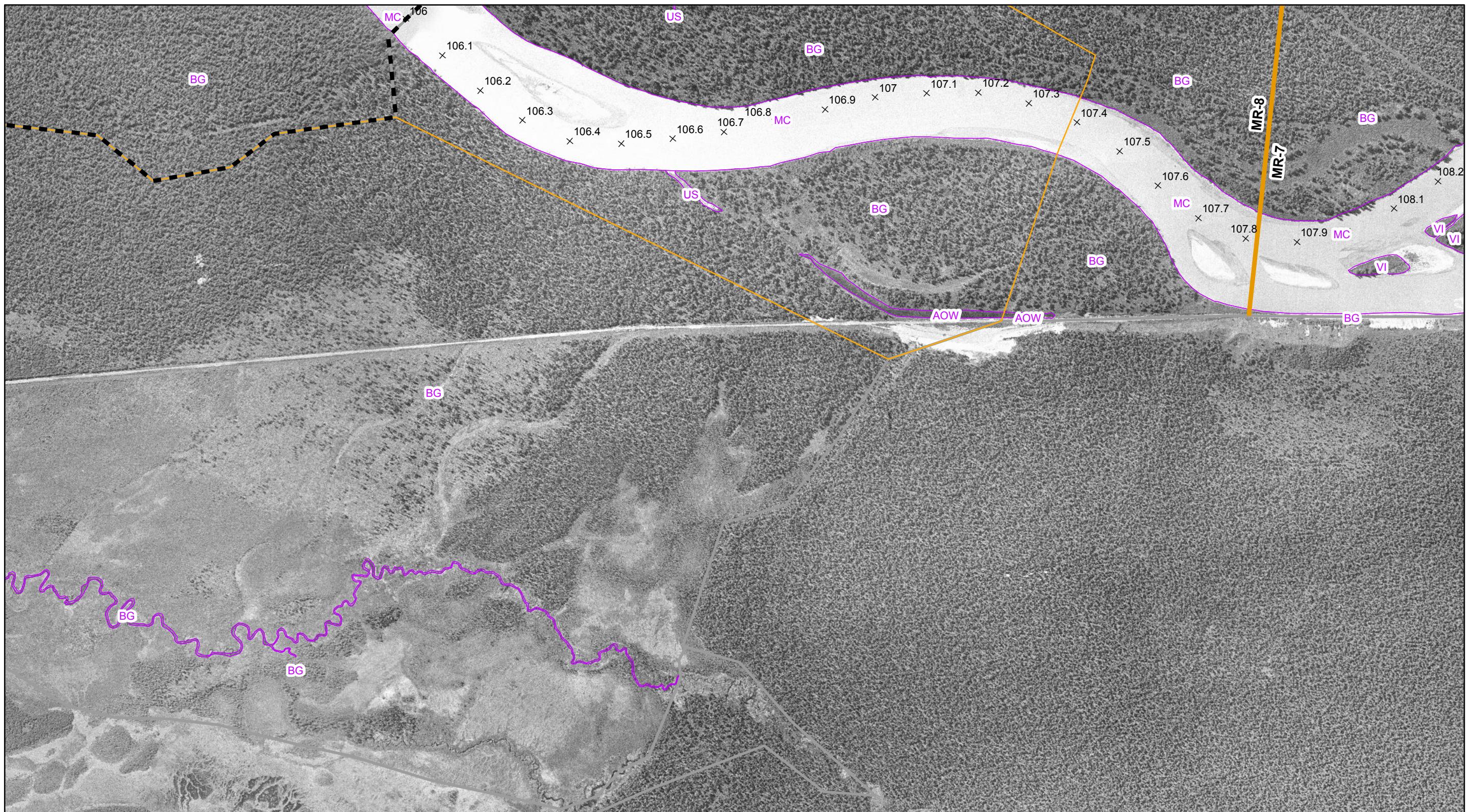
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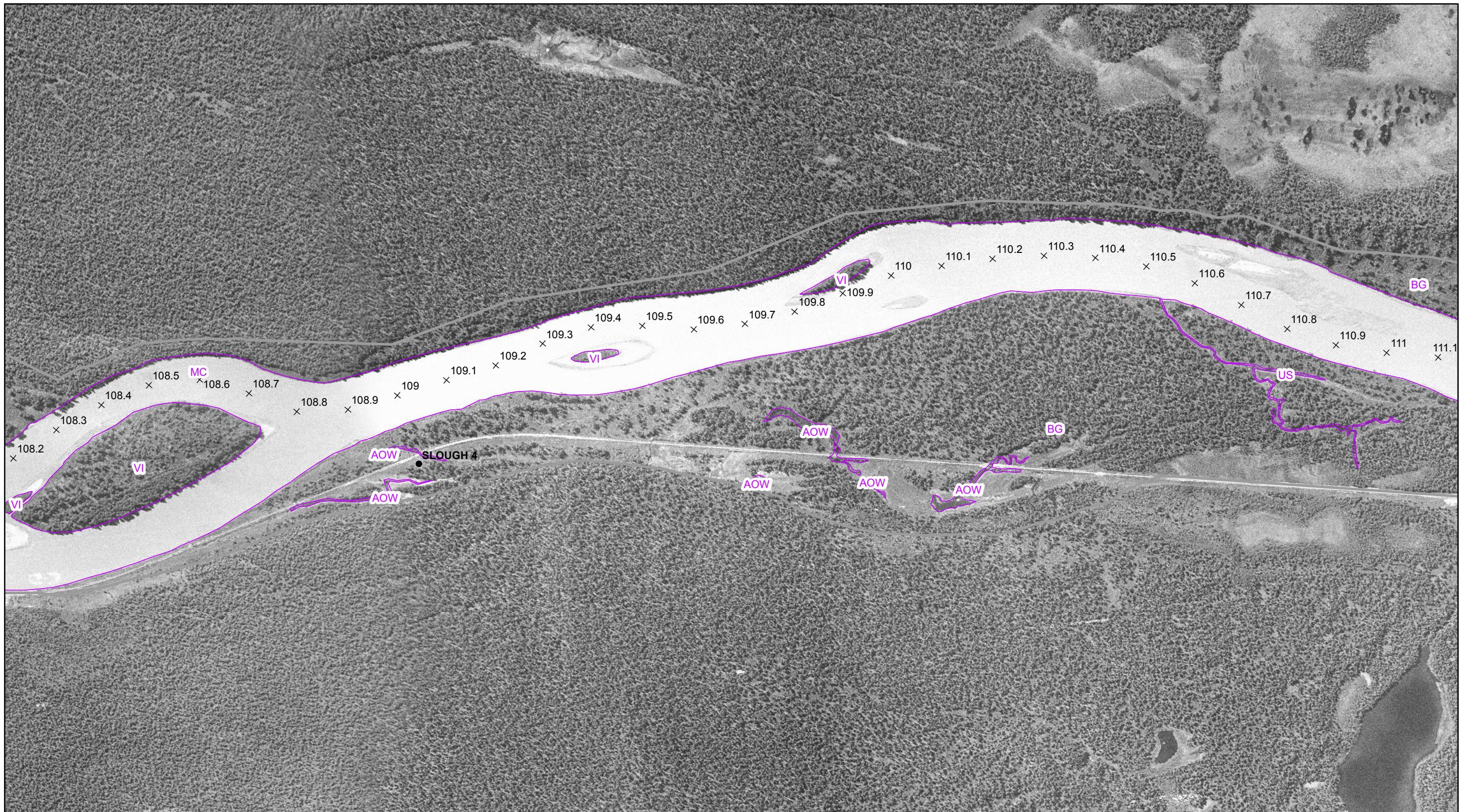
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**1950s GEOMORPHIC FEATURES**

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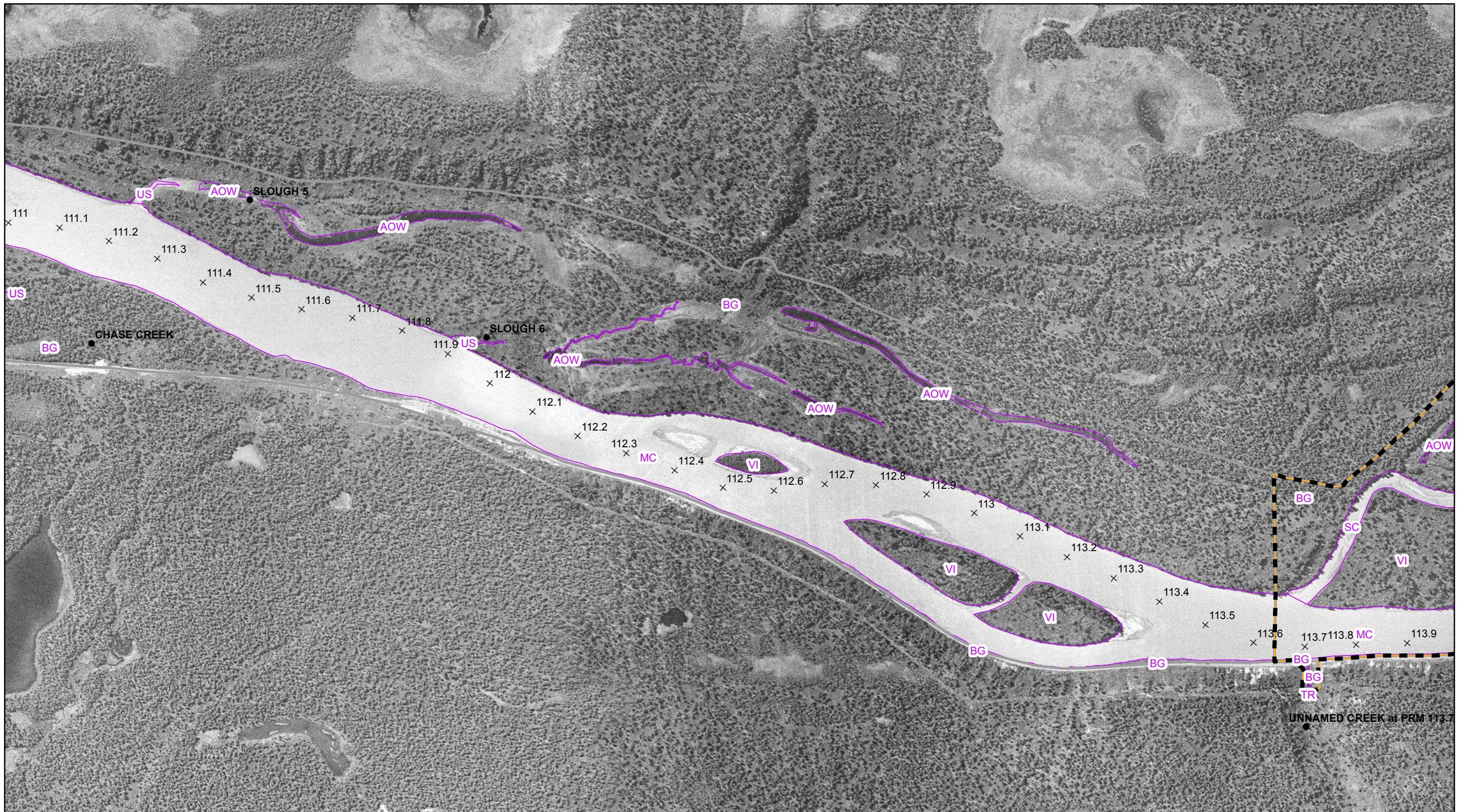
MIDDLE SUSITNA RIVER SEGMENT  
Sheet 6 of 34

1950s GEOMORPHIC FEATURES

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**MIDDLE SUSITNA RIVER SEGMENT  
1950s GEOMORPHIC FEATURES**

Sheet 7 of 34

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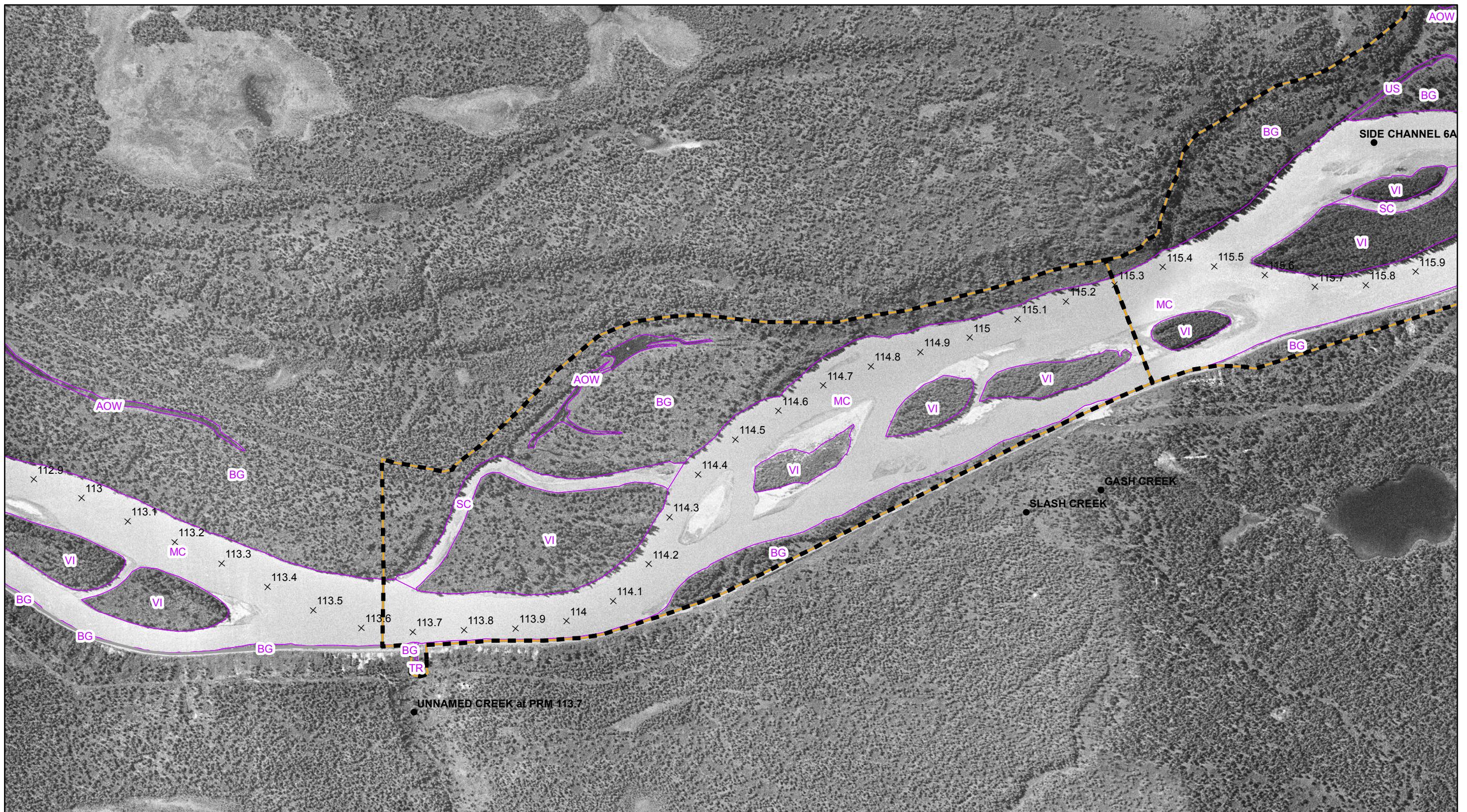
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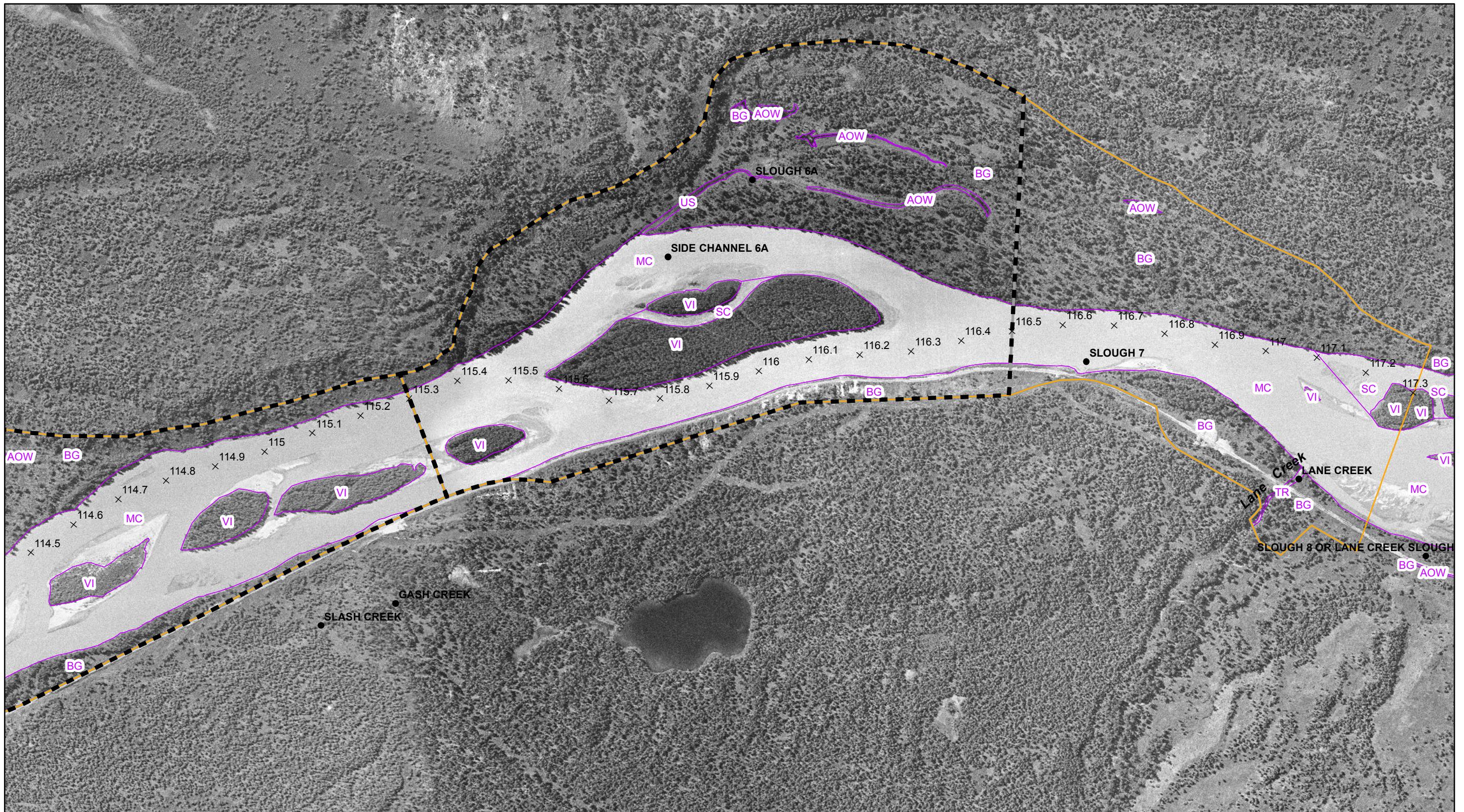
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1950s GEOMORPHIC FEATURES**

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PRM 158.5 - 187.0 08/15/1949 25,800 cfs

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<b>Sheet 9 of 34</b>	<b>1950s GEOMORPHIC FEATURES</b>			<b>PRM 158.5 - 187.0</b>	<b>08/15/1949</b>	<b>25,800 cfs</b>







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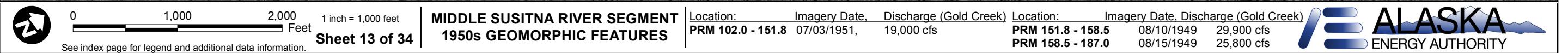
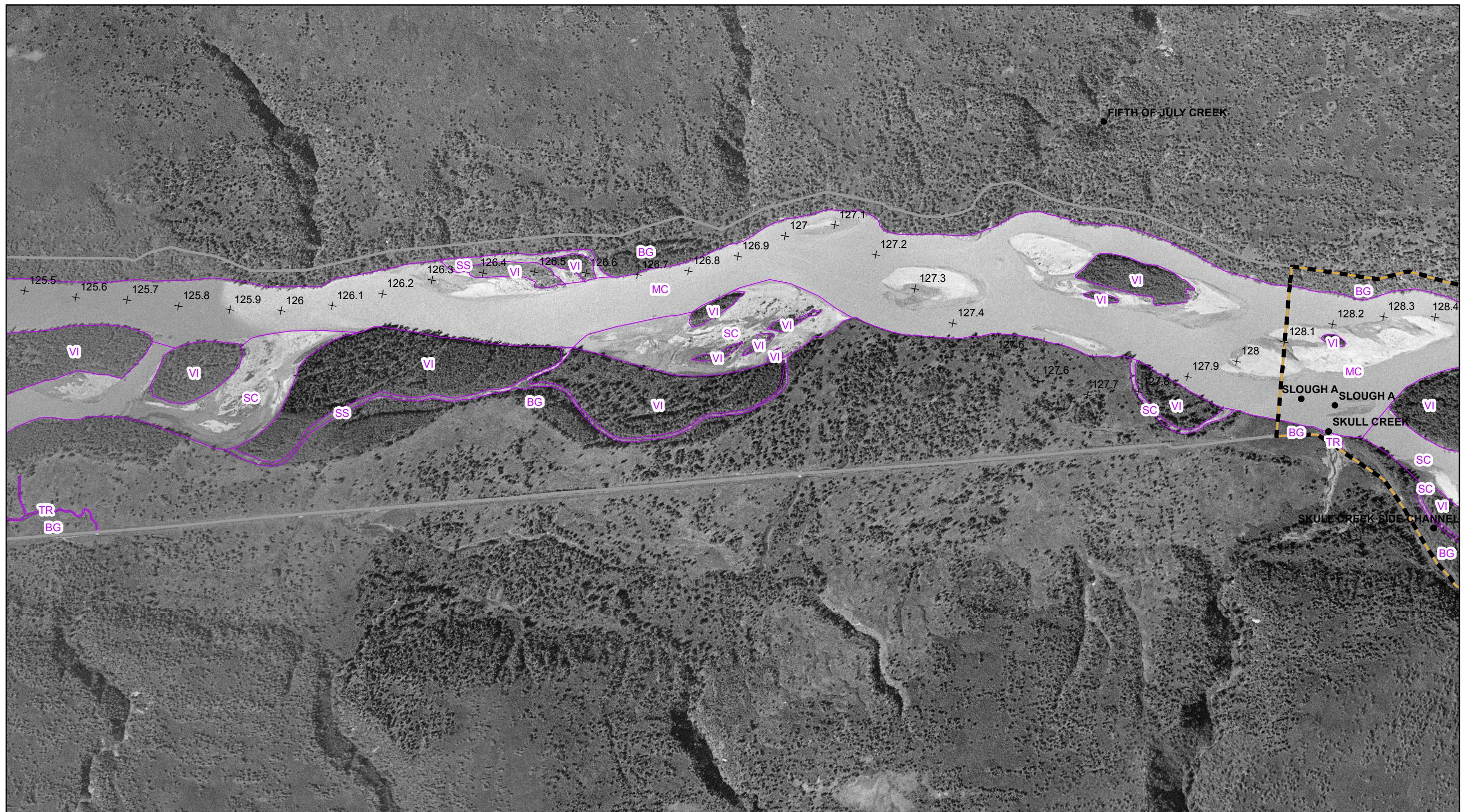


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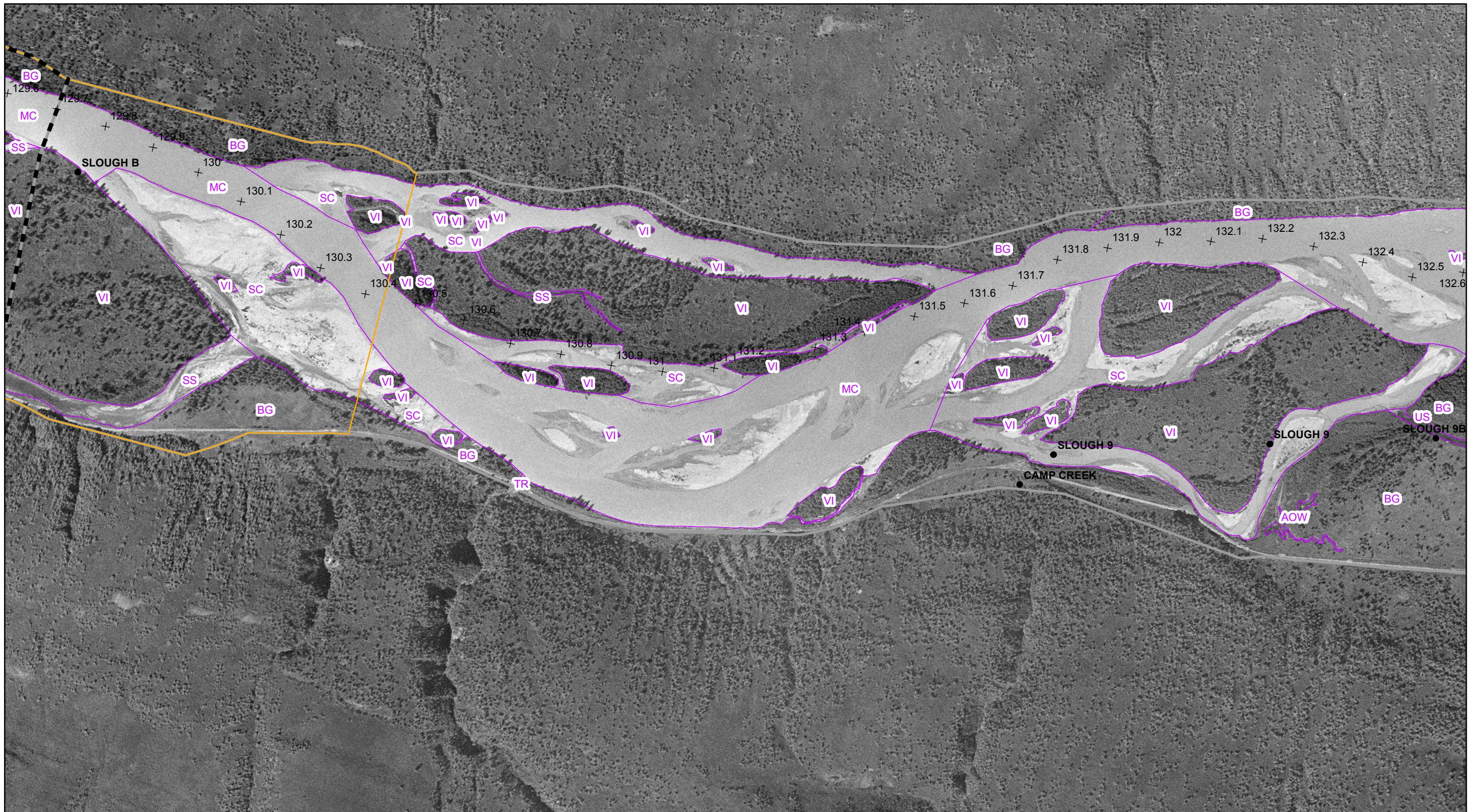




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<b>Sheet 14 of 34</b>			19,000 cfs	08/10/1949	29,900 cfs	
				PRM 158.5 - 187.0	08/15/1949	25,800 cfs

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**1950s GEOMORPHIC FEATURES**

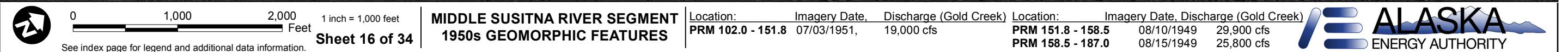
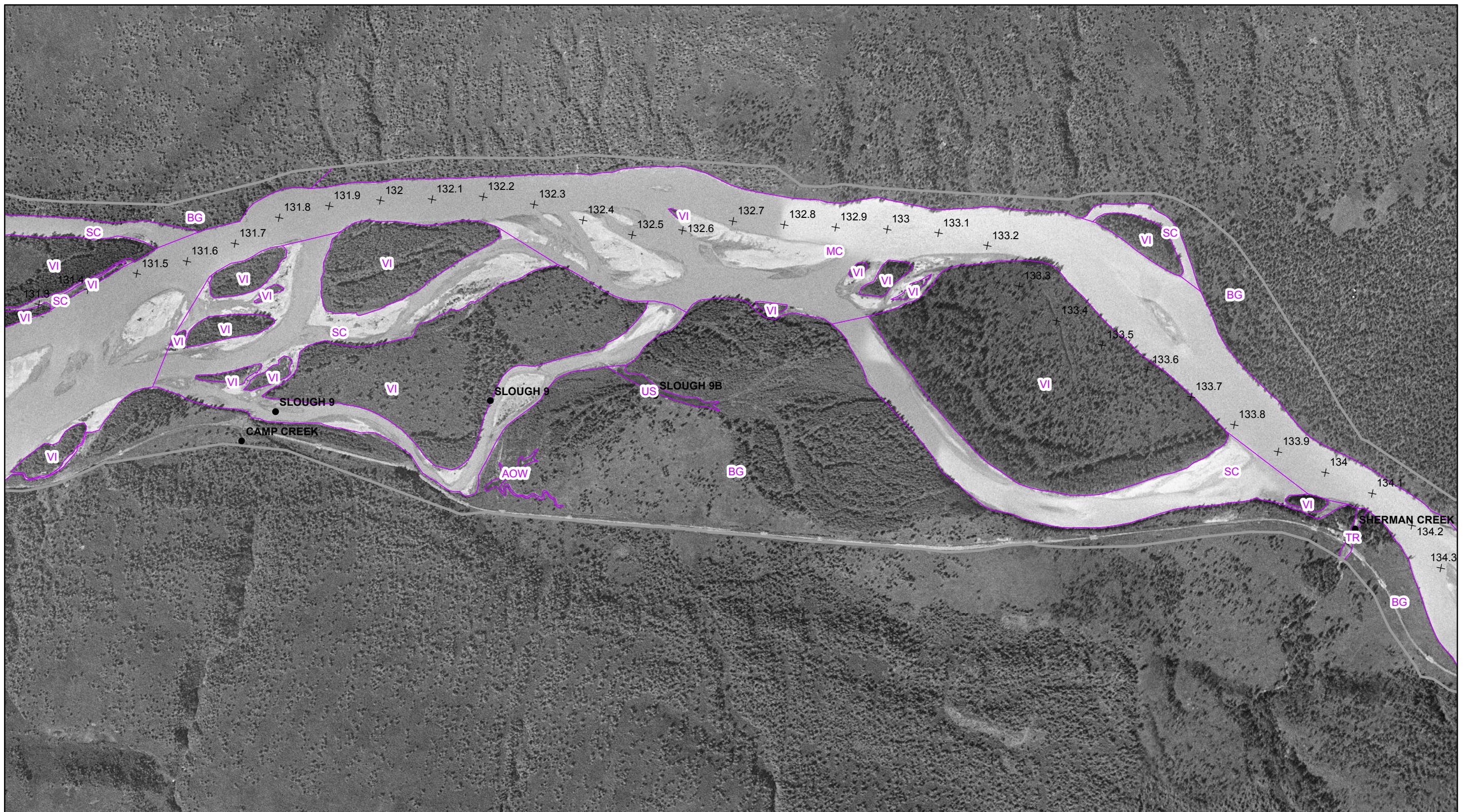
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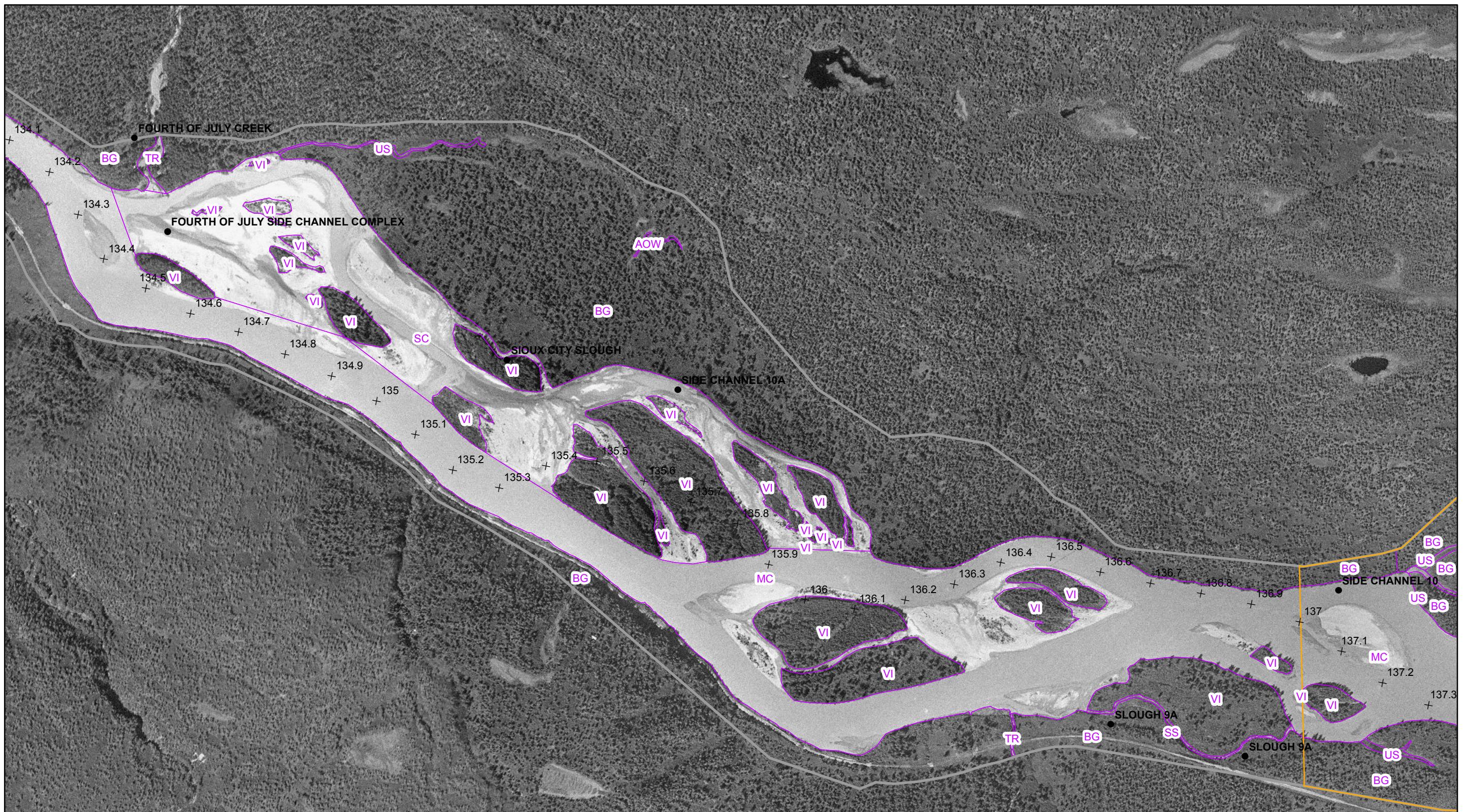
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Location: PRM 158.5 - 187.0 Imagery Date, 08/15/1949, Discharge (Gold Creek) 25,800 cfs

**ALASKA ENERGY AUTHORITY**



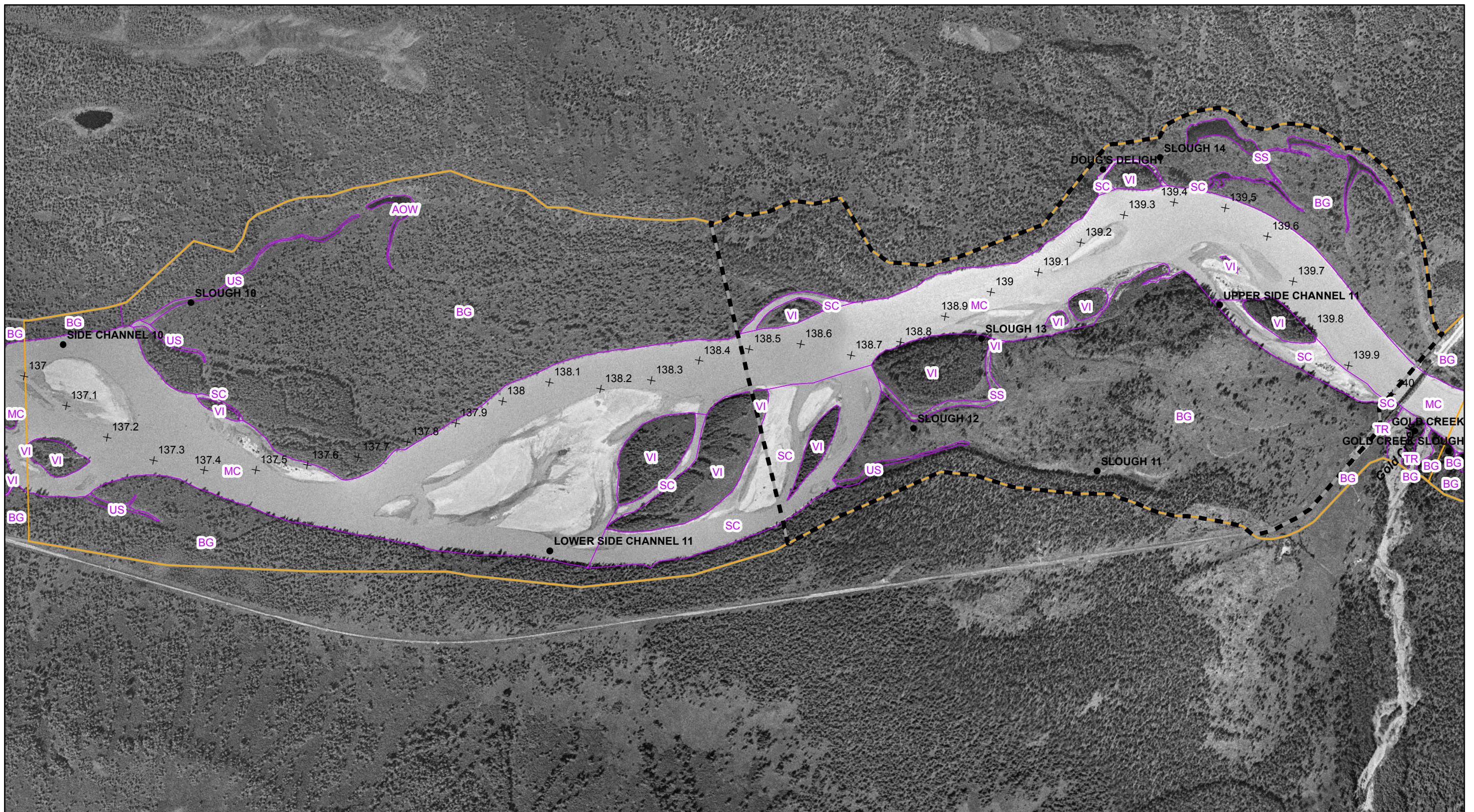


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**1950s GEOMORPHIC FEATURES**  
**Sheet 17 of 34**

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			PRM 158.5 - 187.0	08/15/1949 25,800 cfs

See index page for legend and additional data information.

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**MIDDLE SUSITNA RIVER SEGMENT**  
1950s GEOMORPHIC FEATURES

Sheet 18 of 34

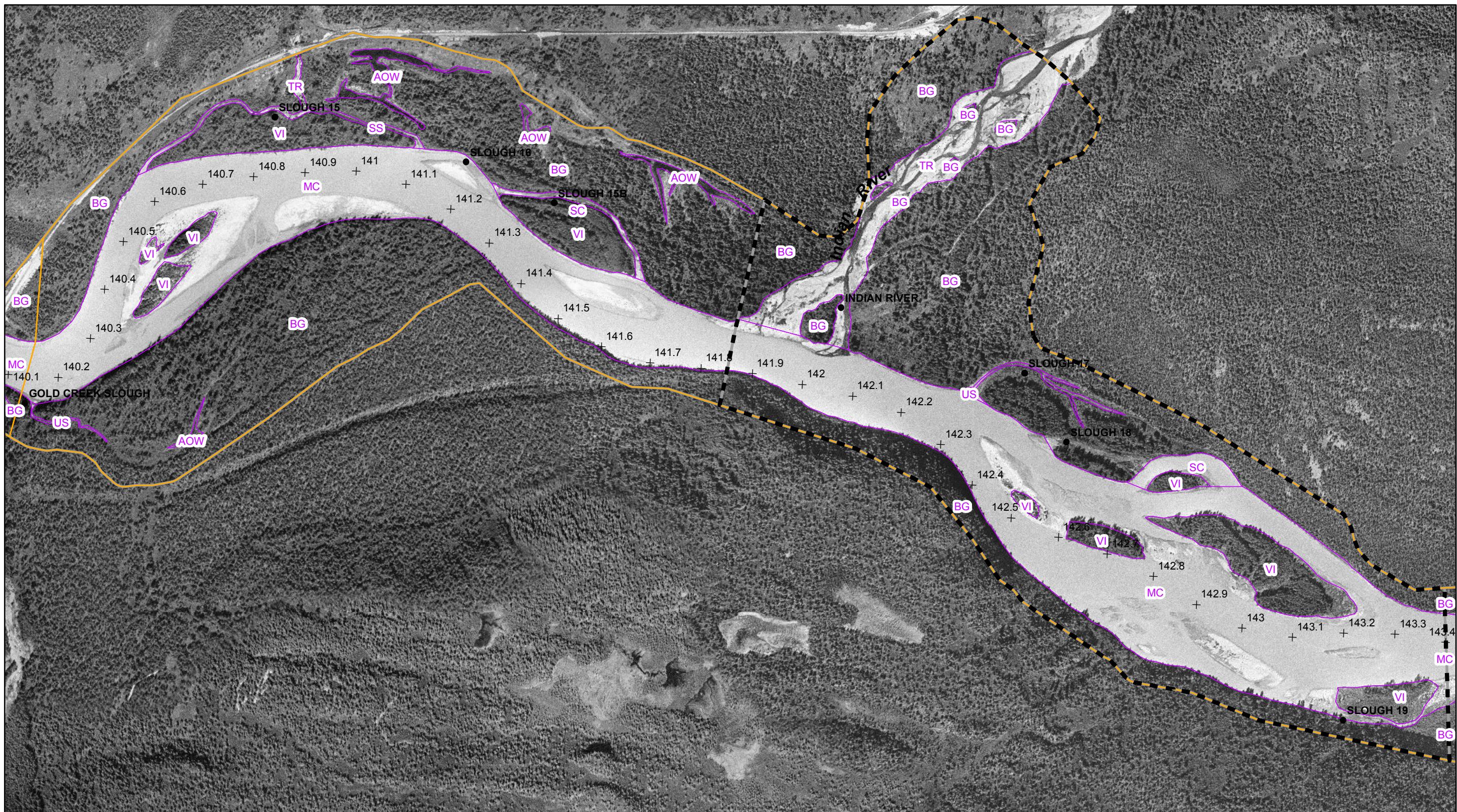
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ALASKA ENERGY AUTHORITY

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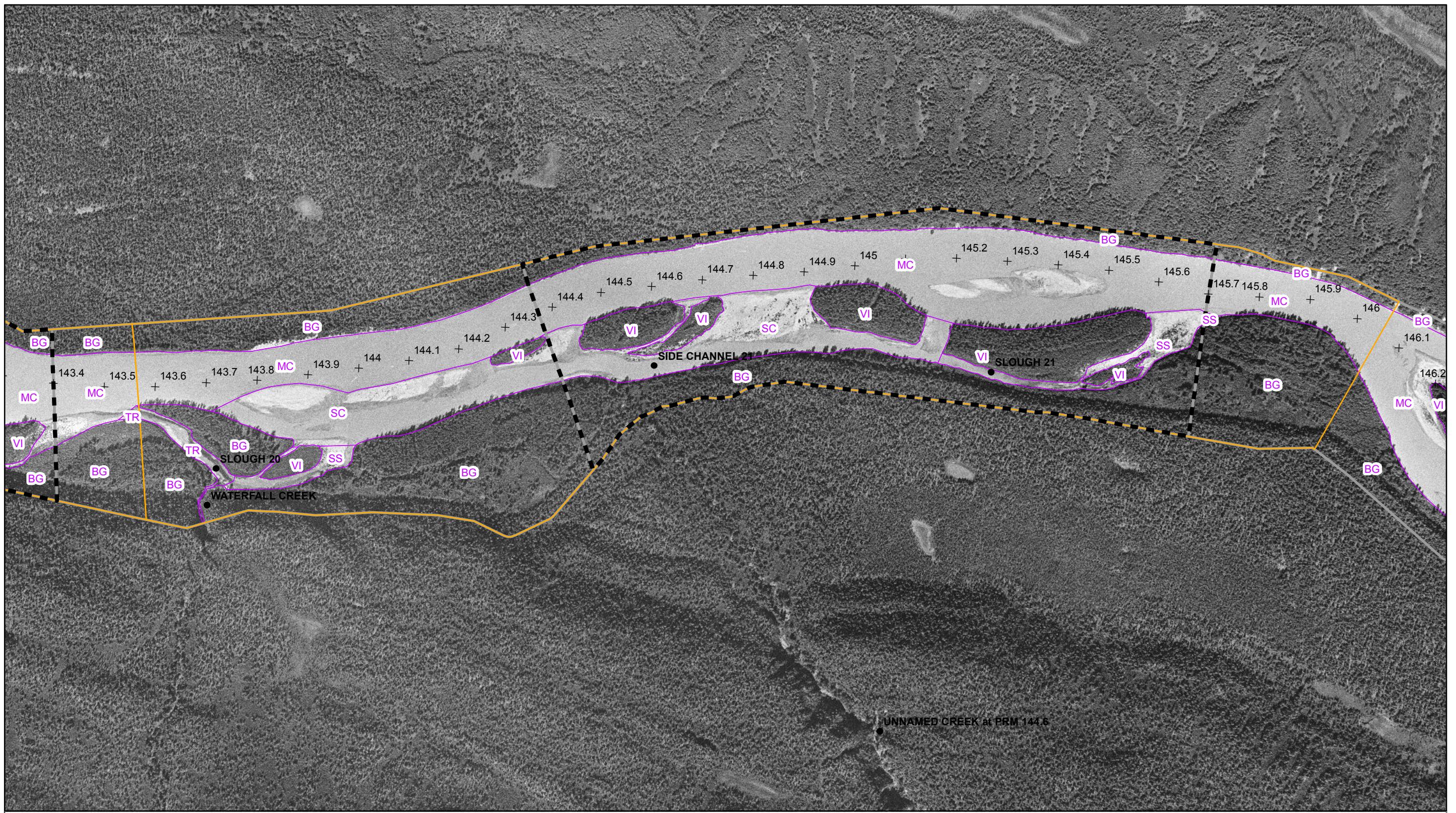


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**MIDDLE SUSITNA RIVER SEGMENT**  
**1950s GEOMORPHIC FEATURES** Sheet 19 of 34

Location: PRM 102.0 - 151.8	Imagery Date, 07/03/1951,	Discharge (Gold Creek) 19,000 cfs	Location: PRM 151.8 - 158.5	Imagery Date, Discharge (Gold Creek) 08/10/1949 29,900 cfs
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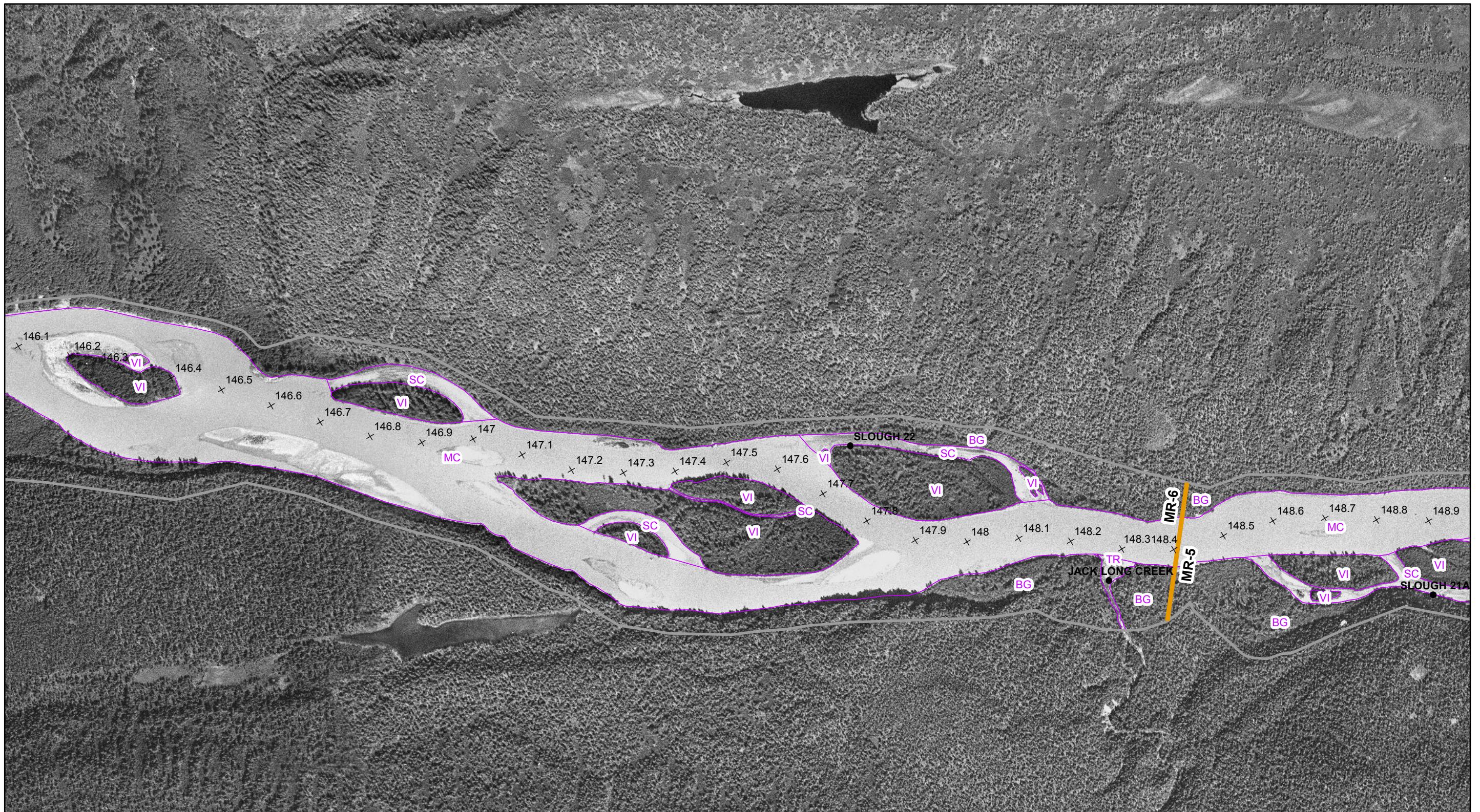


**MIDDLE SUSITNA RIVER SEGMENT**  
1950s GEOMORPHIC FEATURES

Location: PRM 102.0 - 151.8	Imagery Date, 07/03/1951,	Discharge (Gold Creek) 19,000 cfs	Location: PRM 151.8 - 158.5	Imagery Date, Discharge (Gold Creek) 08/10/1949 29,900 cfs
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**MIDDLE SUSITNA RIVER SEGMENT**  
**1950s GEOMORPHIC FEATURES**

Sheet 21 of 34

Location: PRM 102.0 - 151.8 Imagery Date: 07/03/1951, Discharge (Gold Creek): 19,000 cfs

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Location: PRM 158.5 - 187.0 Imagery Date: 08/15/1949, Discharge (Gold Creek): 25,800 cfs

See index page for legend and additional data information.

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MIDDLE SUSITNA RIVER SEGMENT  
1950s GEOMORPHIC FEATURES  
Sheet 22 of 34

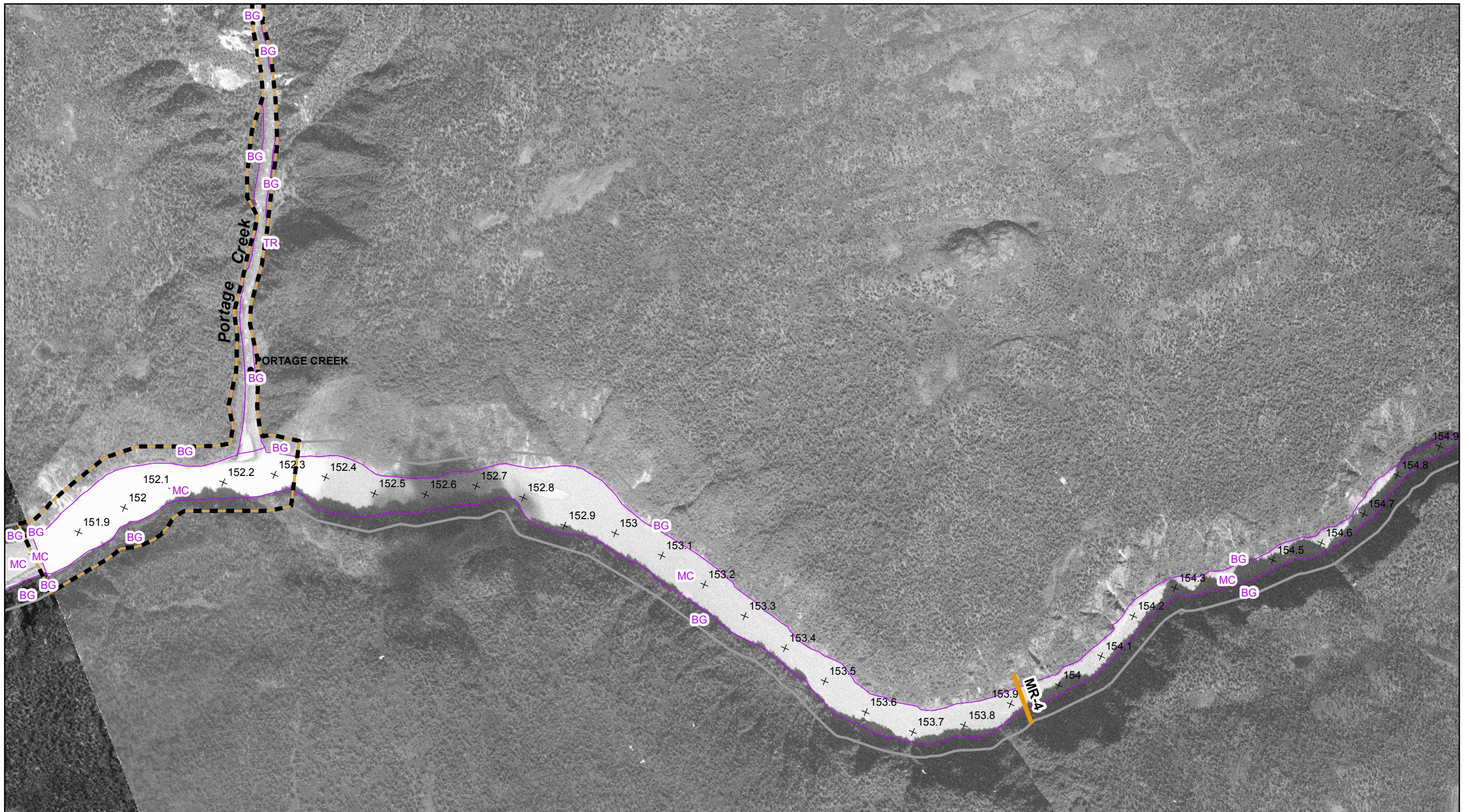
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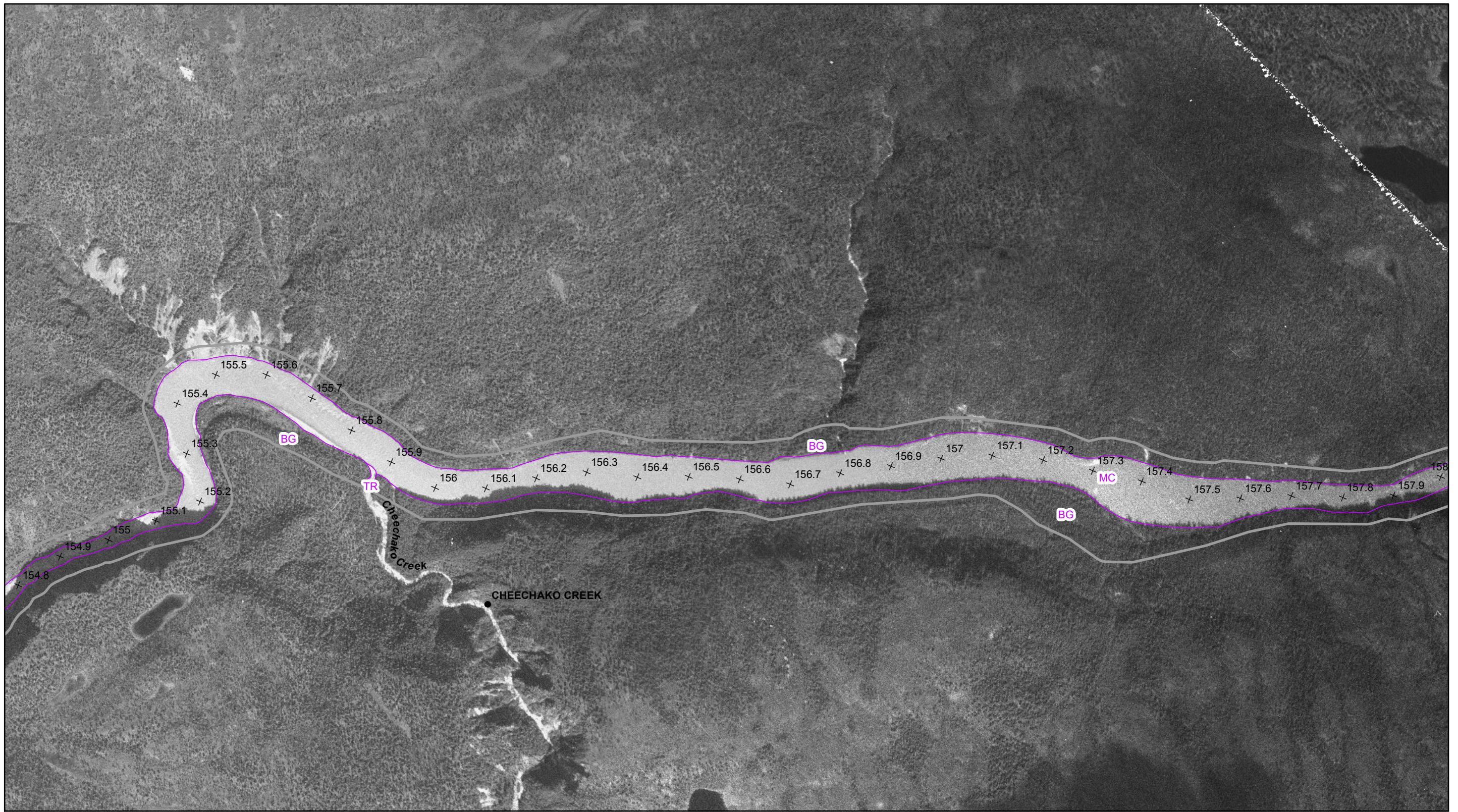
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**ALASKA ENERGY AUTHORITY**

Sheet 23 of 34



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**MIDDLE SUSITNA RIVER SEGMENT**  
**1950s GEOMORPHIC FEATURES**  
Sheet 24 of 34

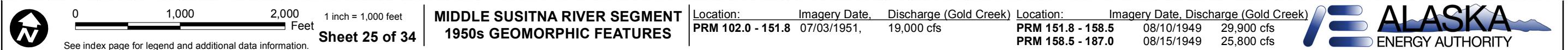
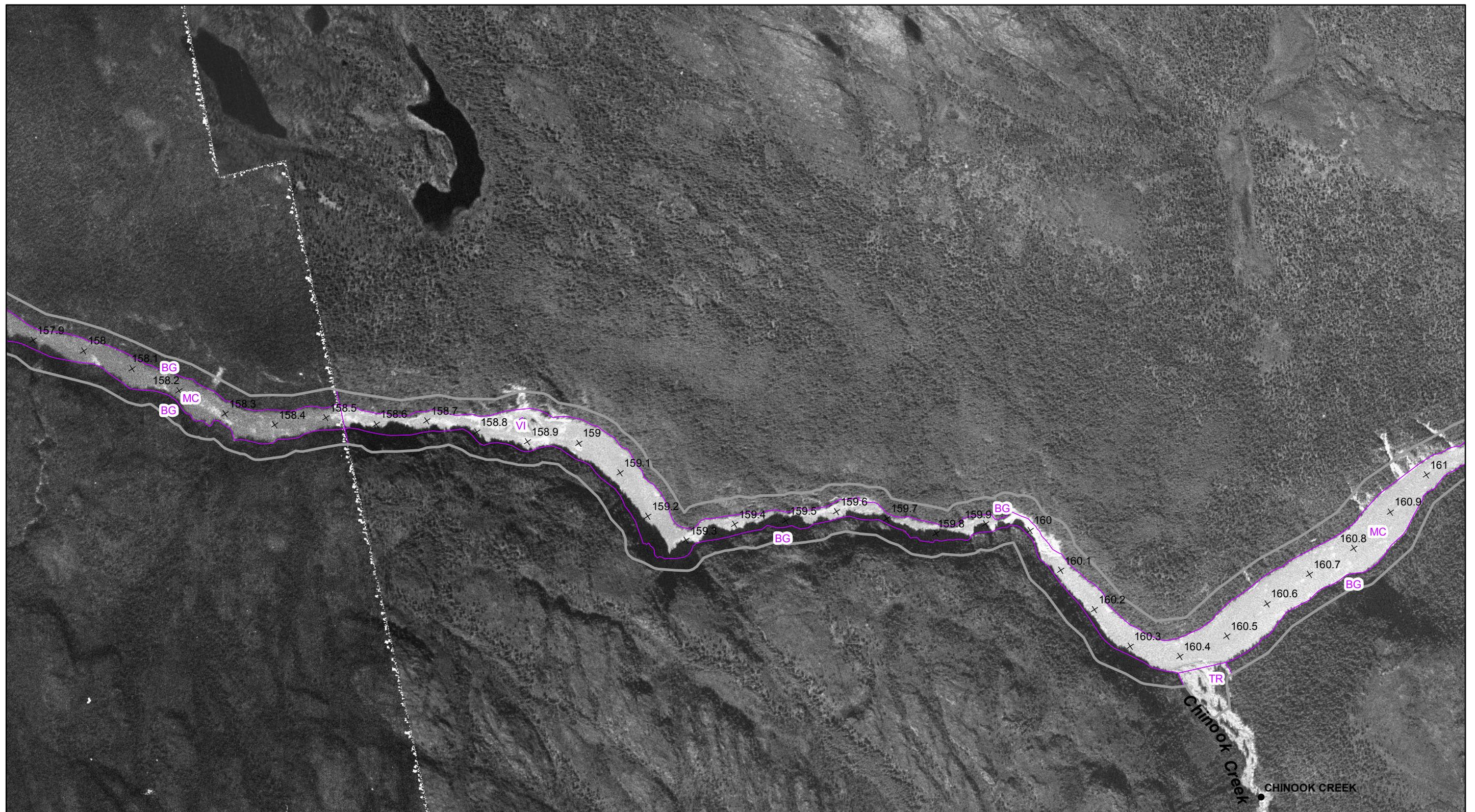
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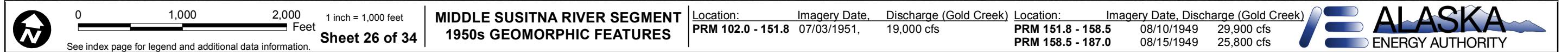
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See index page for legend and additional data information.

**ALASKA ENERGY AUTHORITY**







**MIDDLE SUSITNA RIVER SEGMENT**  
1950s GEOMORPHIC FEATURES

Sheet 27 of 34

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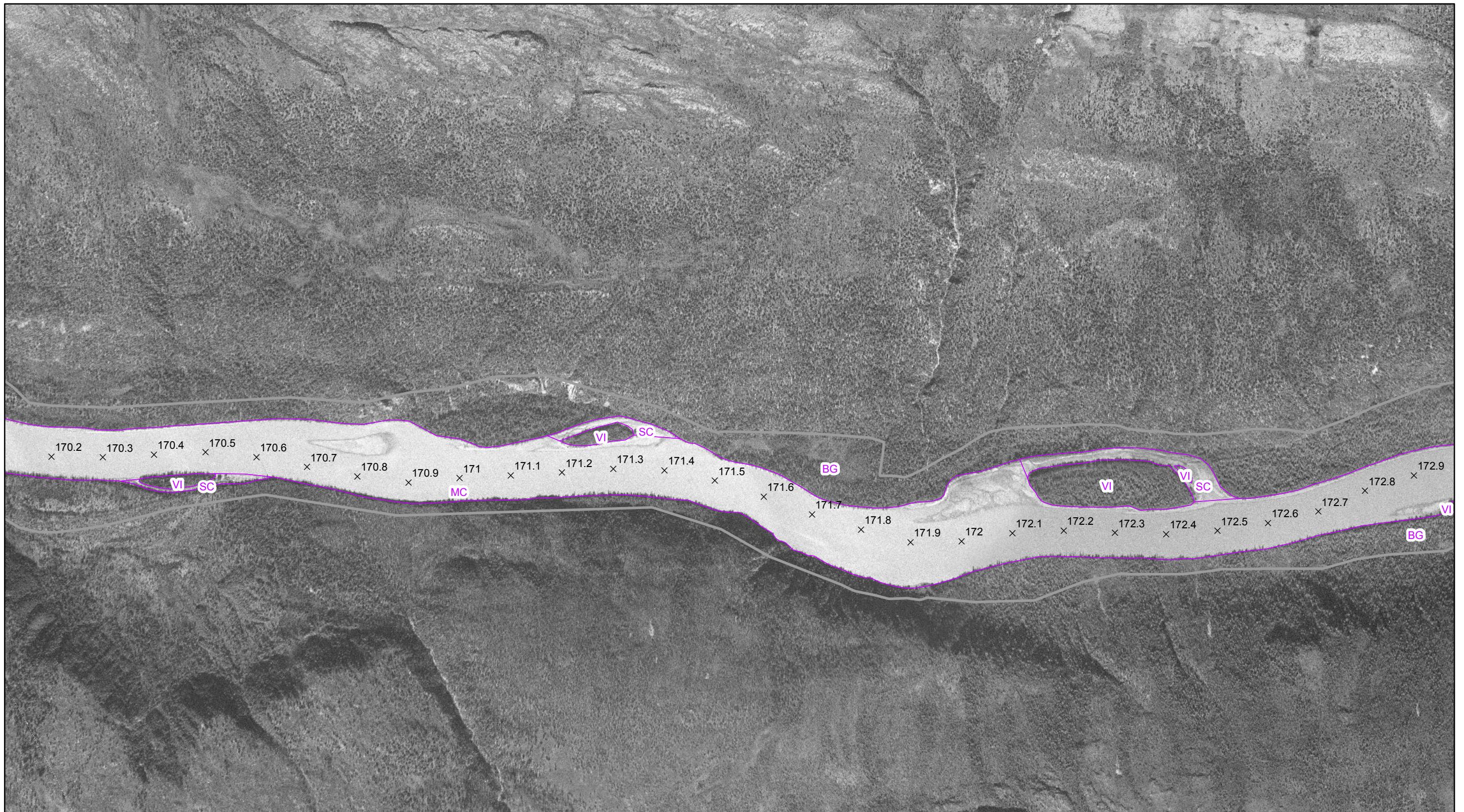
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Sheet 29 of 34

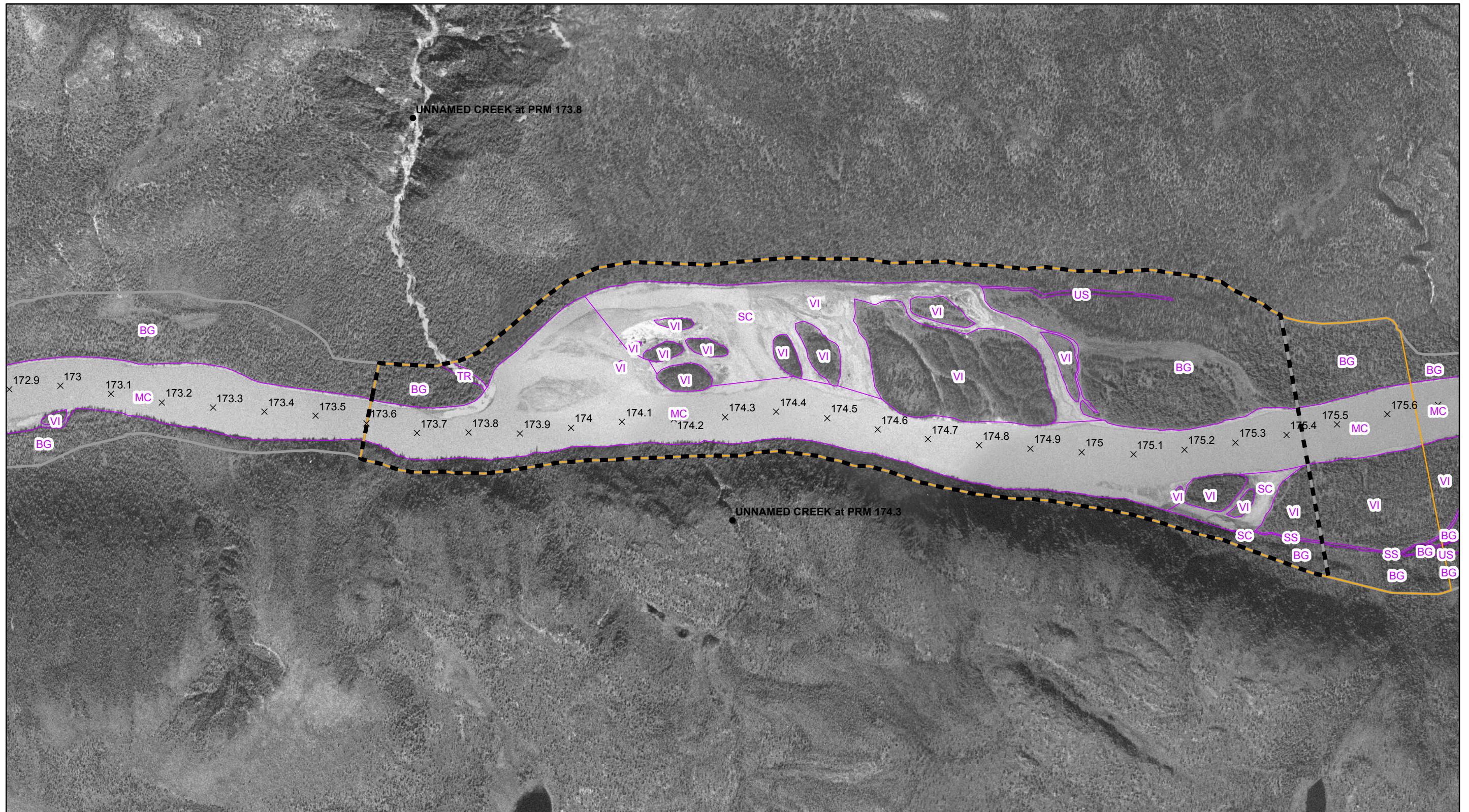
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**MIDDLE SUSITNA RIVER SEGMENT**  
1950s GEOMORPHIC FEATURES

Sheet 31 of 34

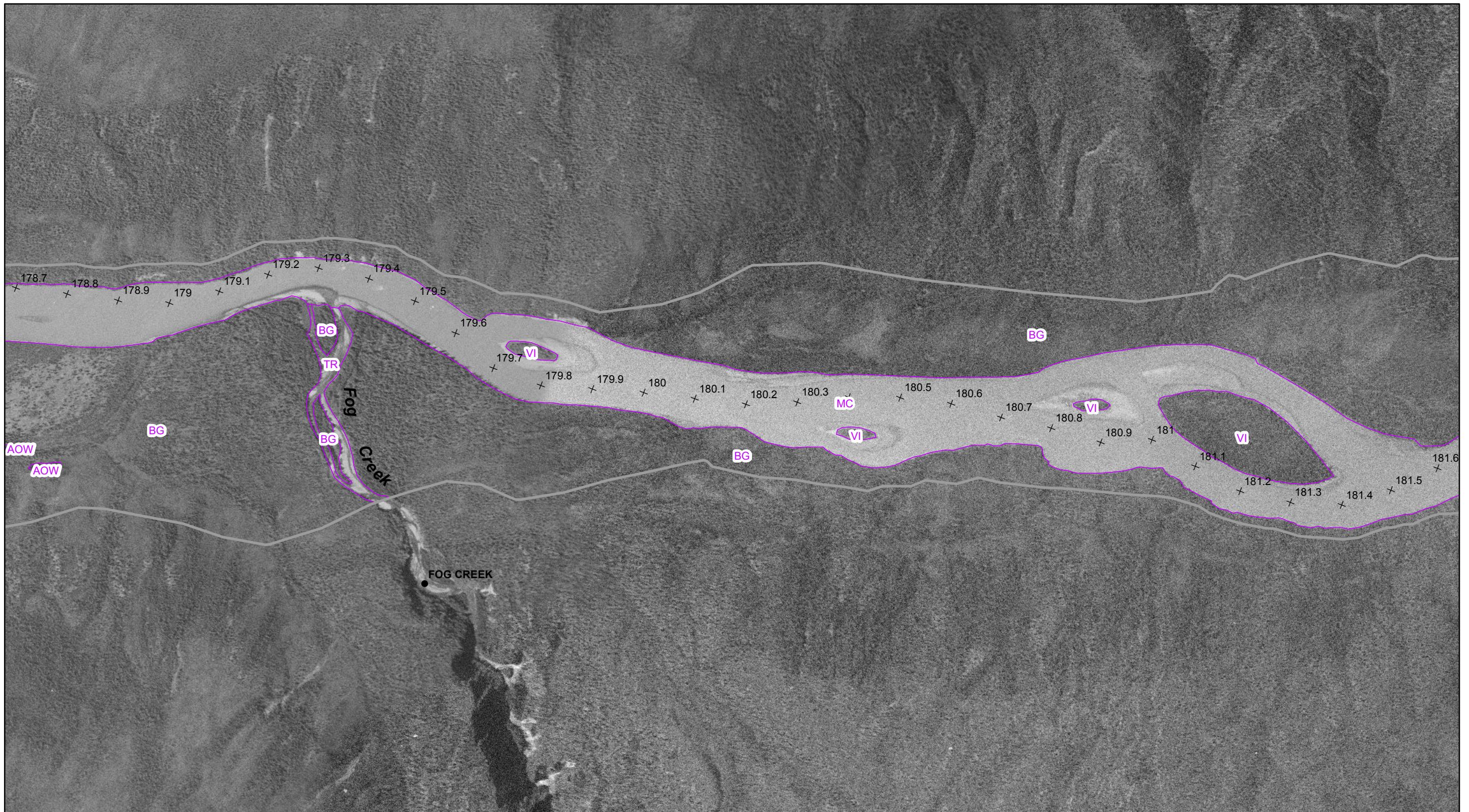
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Sheet 32 of 34

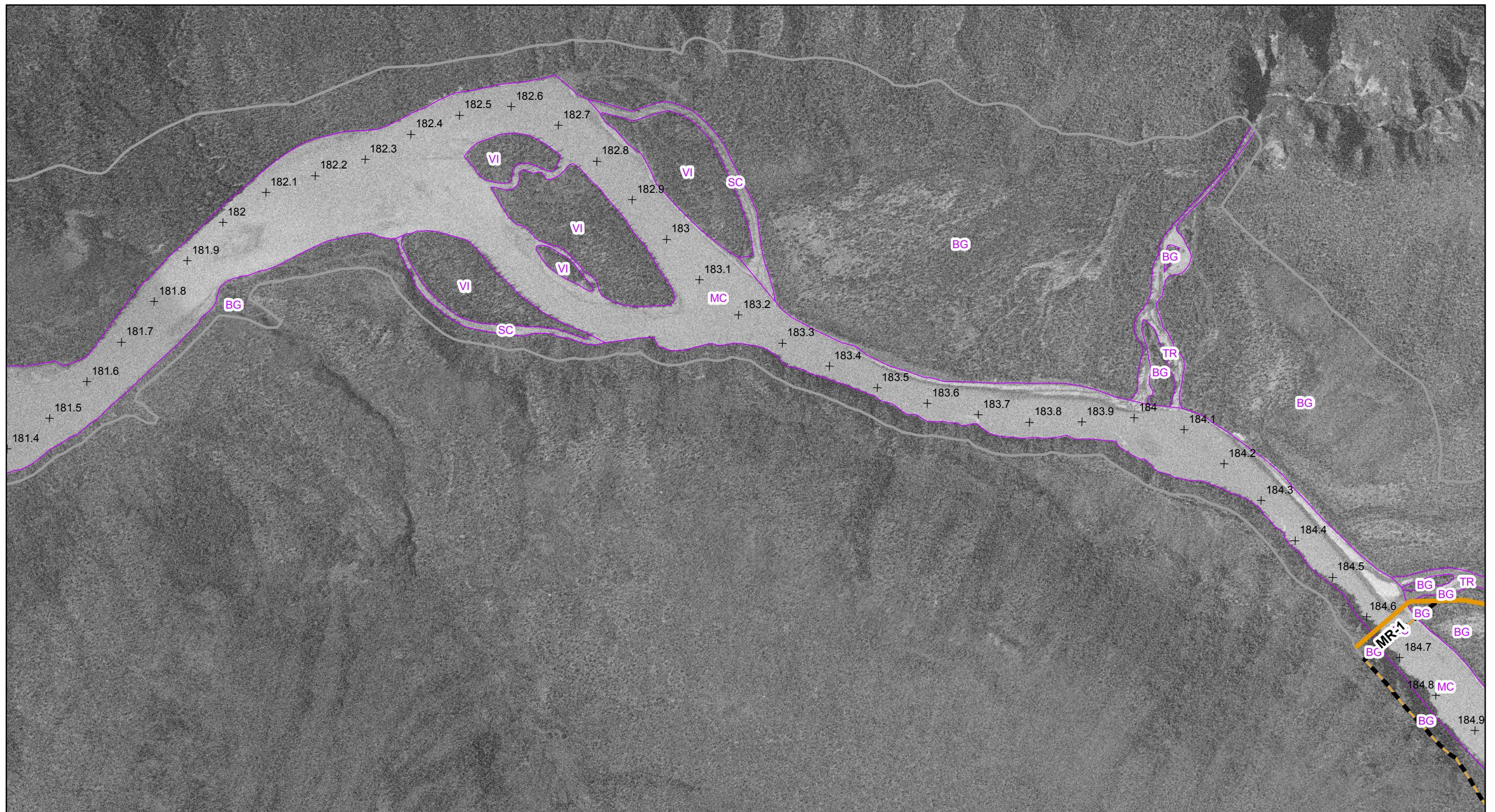
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