

Legend

- ▲ Instream Flow Focus Area
- Geomorphic Reach
- Impediment
- Remote Line Mapping Map Extent and Number

Orthophoto Source: 2010 MDA Information Systems, USGS, NASA

Macrohabitat

- Main Channel
- Split Main Channel
- - - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

Mesohabitat

- Tributary Mouth
- - - Cascade
- - - Rapid
- - - Boulder Riffle
- - - Riffle
- Run/Glide

Other Features

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

ALASKA ENERGY AUTHORITY

0 10 Miles

Map 1 of 55

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zabolney
 File: Map_SCRB_FA_AQHAB_MSME.mxd

Map Key

= Map Extent

0 100 mi



- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

- Macrohabitat**
- Main Channel
 - Split Main Channel
 - Multi-Split Main Channel
 - Side Channel
 - Side Slough
 - Upland Slough

- Mesohabitat**
- Tributary Mouth
 - Cascade
 - Rapid
 - Boulder Riffle
 - Riffle
 - Run/Glide

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

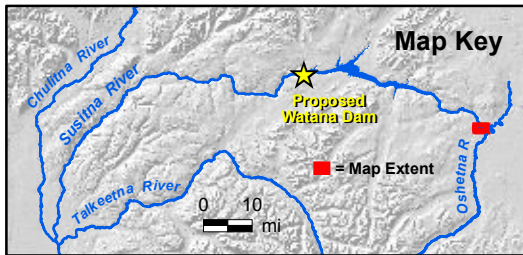
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Map 2 of 55

ALASKA ENERGY AUTHORITY

0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zablony
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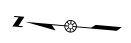
- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

- Macrohabitat**
- Main Channel
 - - - Split Main Channel
 - · - · - Multi-Split Main Channel
 - Side Channel
 - Side Slough
 - Upland Slough

- Mesohabitat**
- Tributary Mouth
 - - - Cascade
 - · - · - Rapid
 - · - · - Boulder Riffle
 - - - Riffle
 - Run/Glide

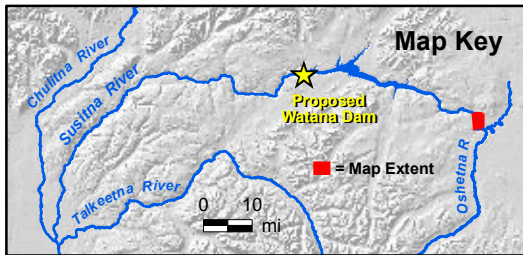
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project



Map 3 of 55

Projection: AK SP Zone 4 NAD 1983
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

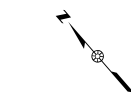
Macrohabitat

- Main Channel
- Split Main Channel
- Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

— Tributary Mouth

- Mesohabitat**
- Cascade
 - Rapid
 - Boulder Riffle
 - Riffle
 - Run/Glide

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

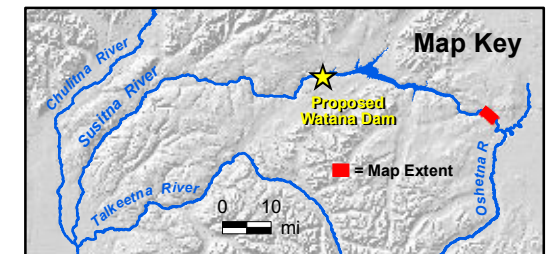


Map 4 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zablony
 File: Map_SCRB_FA_AQHAB_MS12.mxd





- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project


Macrohabitat

- Main Channel
- - - Split Main Channel
- · - · - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

— Tributary Mouth

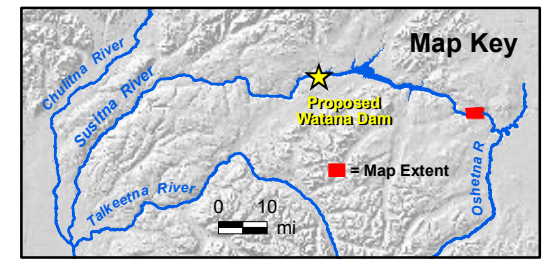
- Mesohabitat**
- - - Cascade
 - · - · - Rapid
 - · - · - Boulder Riffle
 - - - Riffle
 - Run/Glide

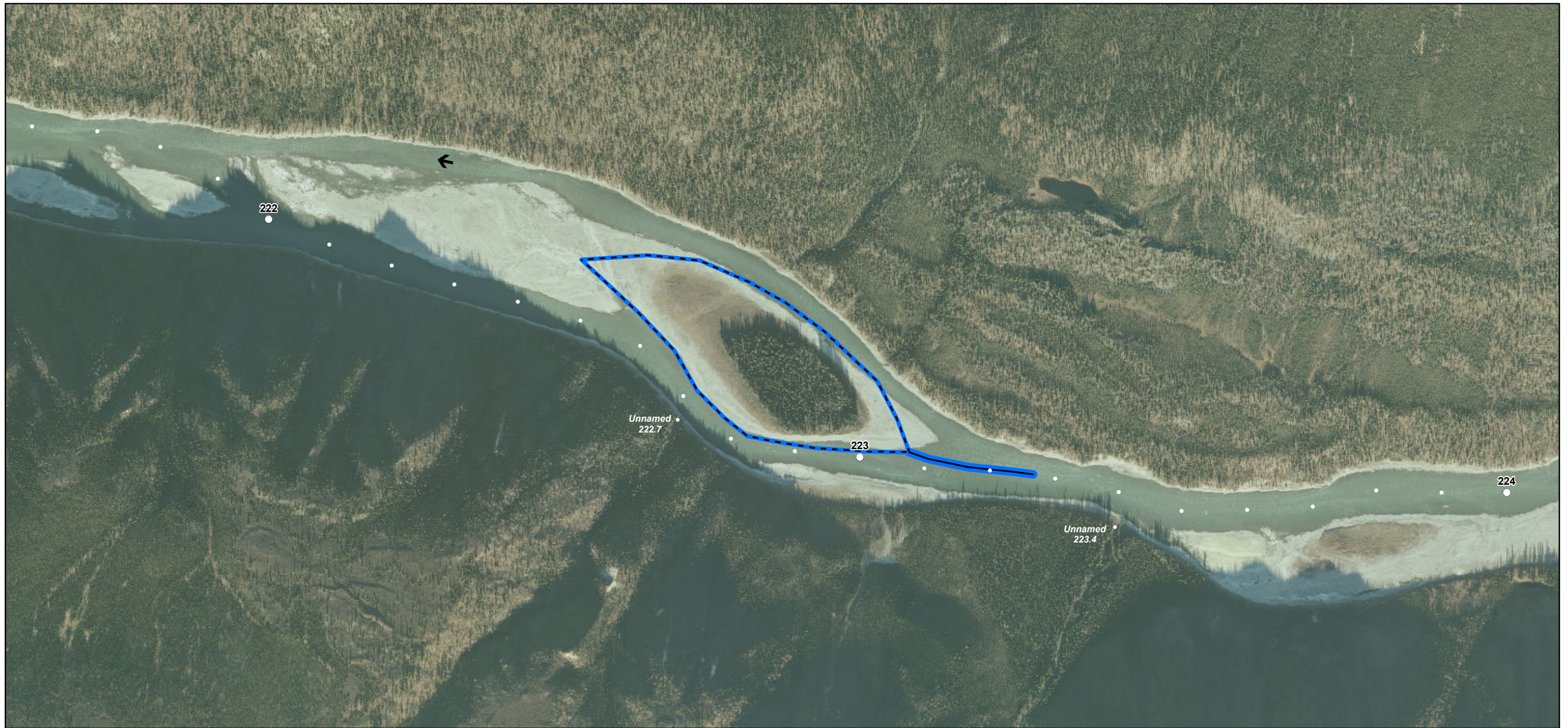
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond


Map 5 of 55



Projection: AK SP Zone 4 NAD 1983
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

- Macrohabitat**
- Main Channel
 - Split Main Channel
 - - - - Multi-Split Main Channel
 - Side Channel
 - Side Slough
 - Upland Slough

- Mesohabitat**
- Tributary Mouth
 - - - - Cascade
 - - - - Rapid
 - - - - Boulder Riffle
 - - - - Riffle
 - Run/Glide

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

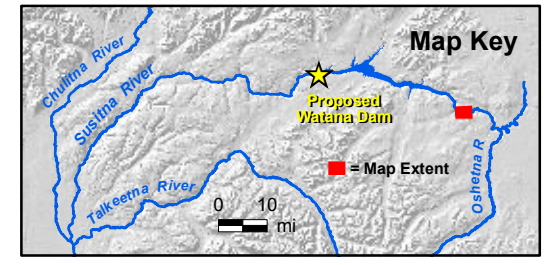
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

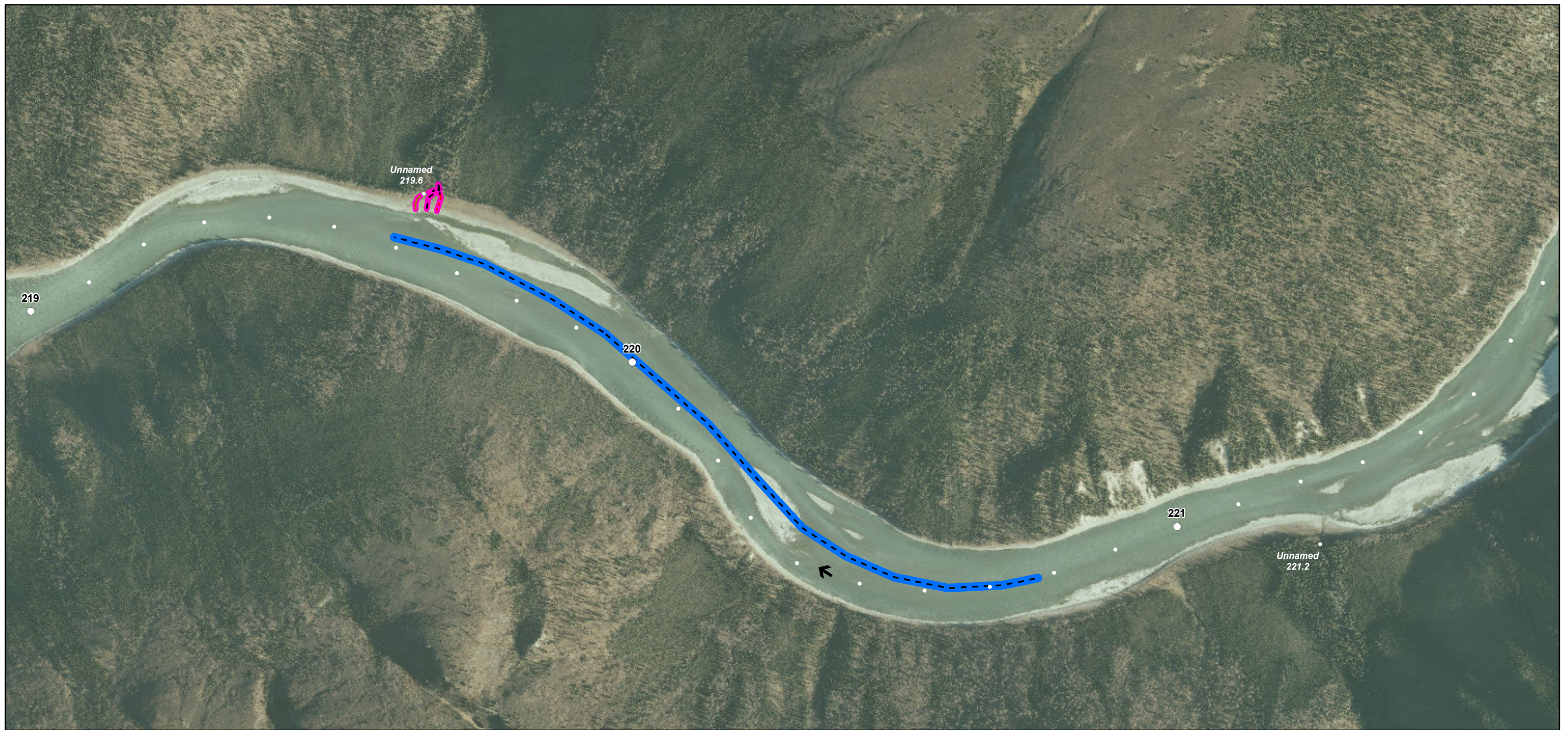
Map 6 of 55

ALASKA ENERGY AUTHORITY

0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zablony
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- - - Split Main Channel
- · - · - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

Mesohabitat

- Tributary Mouth
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- · - · - Rapid
- · - · - Boulder Riffle
- - - Riffle
- Run/Glide
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

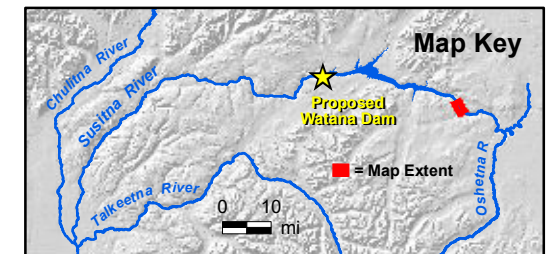


Map 7 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zablodney
 File: Map_SCRB_FA_AQHAB_MS12.mxd





- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

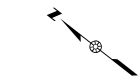
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- - - Split Main Channel
- · - · - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

Mesohabitat

- Tributary Mouth
- - - Cascade
- · - · - Rapid
- · - · - Boulder Riffle
- - - Riffle
- Run/Glide
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

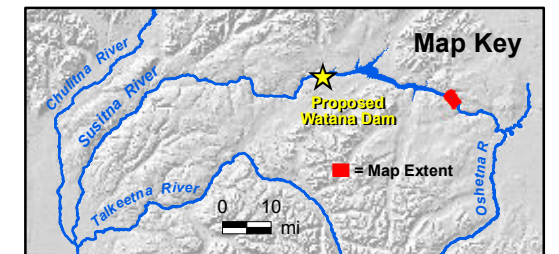


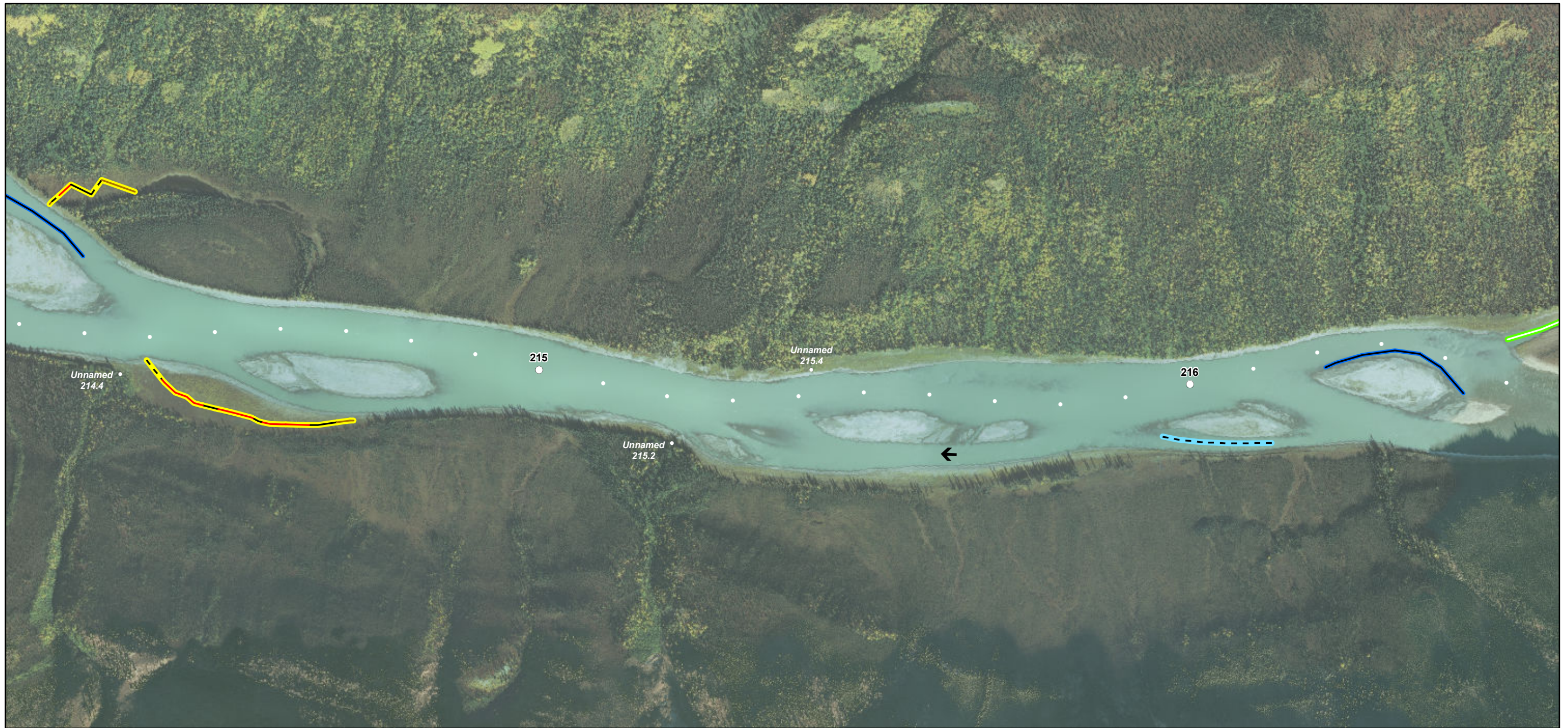
Map 8 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zablony
 File: Map_SCRB_FA_AQHAB_MS12.mxd





Legend

- Instream Flow Focus Area (Upper and Lower Extent)
- Geomorphic Reach
- Project River Mile
- ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
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Mesohabitat

- Tributary Mouth
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- Run/Glide

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

Map 9 of 55

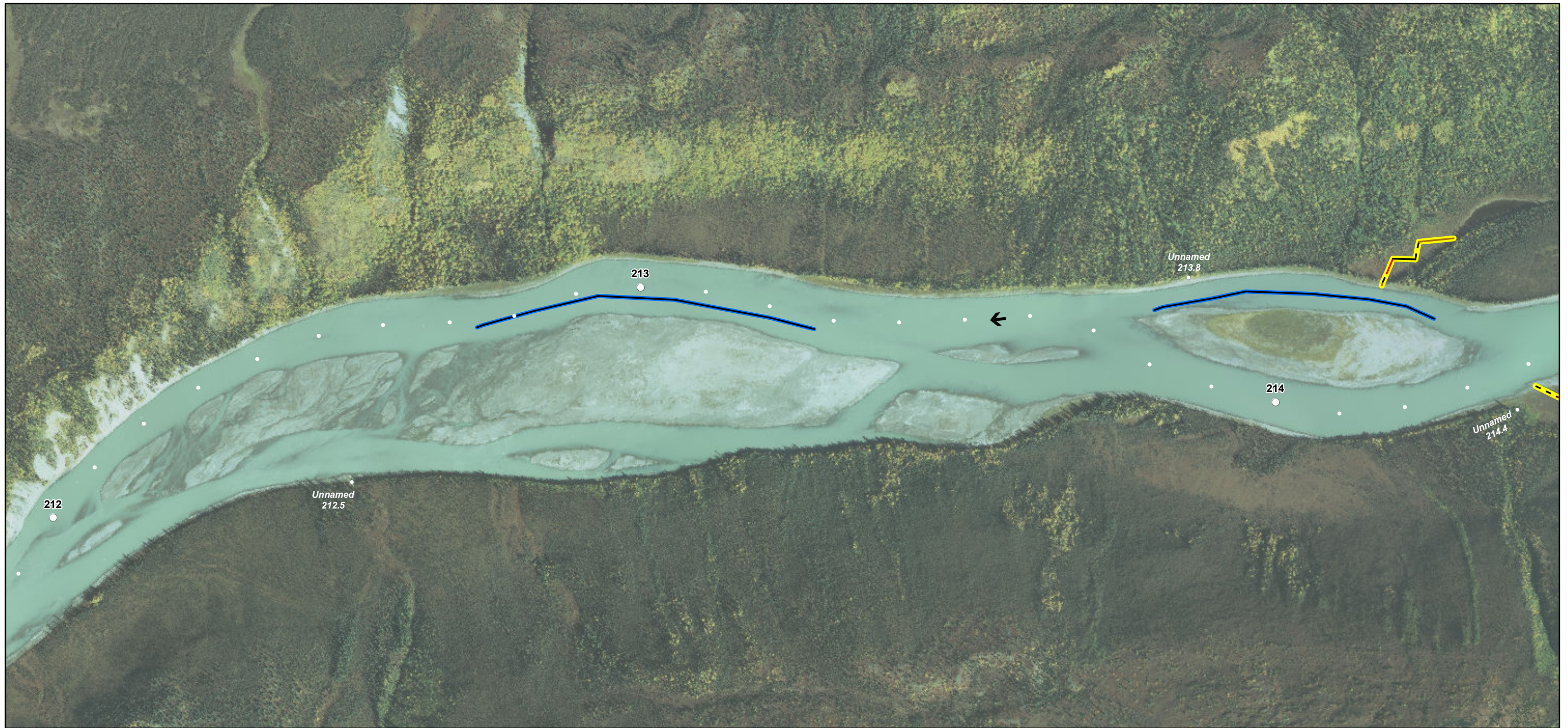
ALASKA ENERGY AUTHORITY

0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zabolney
 File: Map_SCRB_FA_AQHAB_MS12.mxd

Map Key

0 10 mi



- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
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- Side Channel
- Side Slough
- Upland Slough

Mesohabitat

- Tributary Mouth
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- Clearwater Plume
- Backwater/Alcove
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- Beaver Complex/Pond

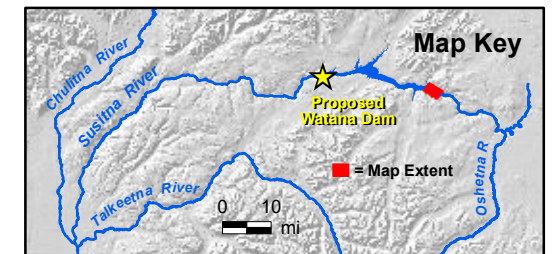


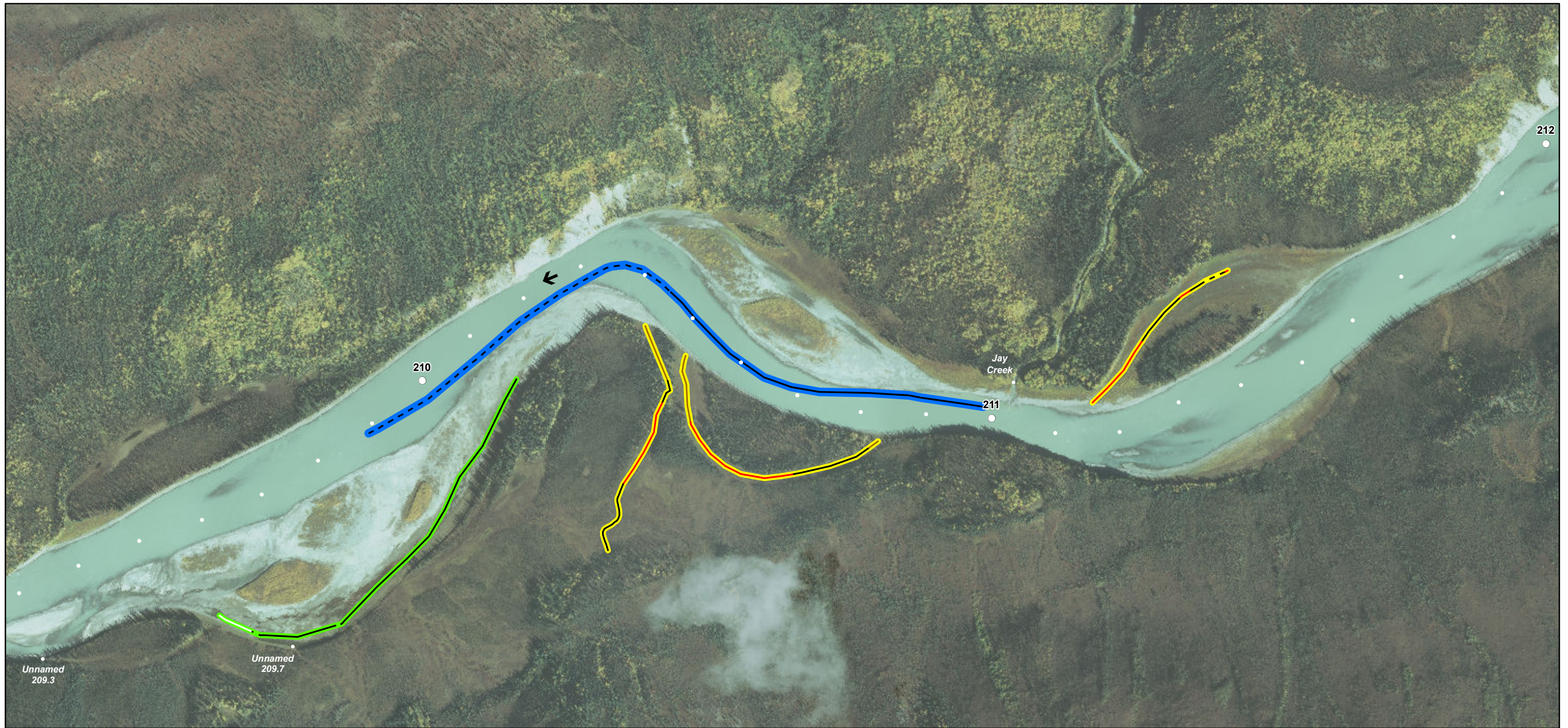
Map 10 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
- - - - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

— Tributary Mouth

- Mesohabitat**
- - - - Cascade
 - - - - Rapid
 - - - - Boulder Riffle
 - - - - Riffle
 - Run/Glide

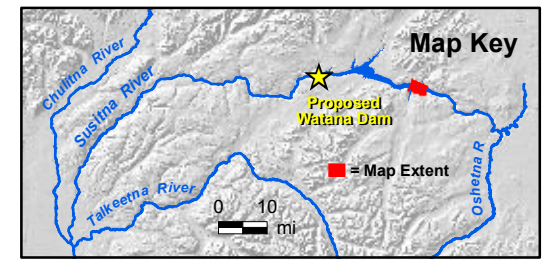
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

Map 11 of 55



0 1,000 Feet

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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

- Macrohabitat**
- Main Channel
 - - - Split Main Channel
 - · - · - Multi-Split Main Channel
 - Side Channel
 - Side Slough
 - Upland Slough

- Mesohabitat**
- Tributary Mouth
 - - - Cascade
 - · - · - Rapid
 - · - · - Boulder Riffle
 - - - Riffle
 - Run/Glide

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

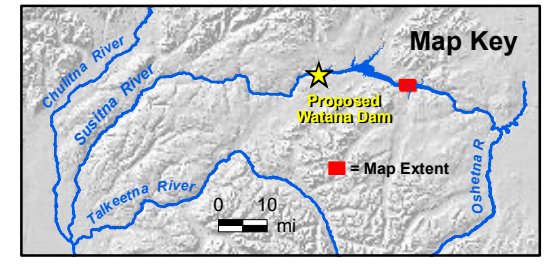
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

N
↑
Map 12 of 55

ALASKA ENERGY AUTHORITY

0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
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File: Map_SCRB_FA_AQHAB_MS12.mxd





- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
- - - - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

— Tributary Mouth

- Mesohabitat**
- - - - Cascade
 - - - - Rapid
 - - - - Boulder Riffle
 - - - - Riffle
 - Run/Glide

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

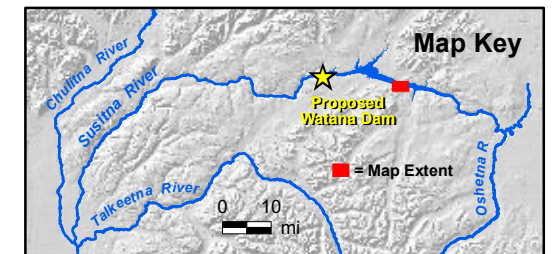


Map 13 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
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Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
- - - - Multi-Split Main Channel
- Side Channel
- Side Slough
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Mesohabitat

- Tributary Mouth
- - - - Cascade
- - - - Rapid
- - - - Boulder Riffle
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- Run/Glide
- Pool
- Clearwater Plume
- Backwater/Alcove
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- Beaver Complex/Pond

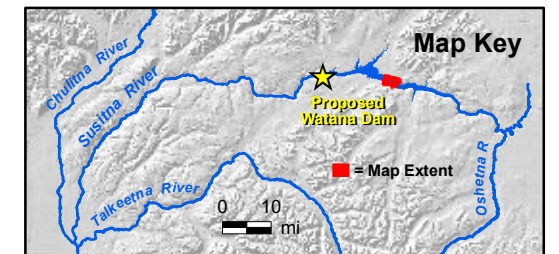


Map 14 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
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 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
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- Side Slough
- Upland Slough

— Tributary Mouth

- Mesohabitat**
- - - - Cascade
 - - - - Rapid
 - - - - Boulder Riffle
 - - - - Riffle
 - Run/Glide

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

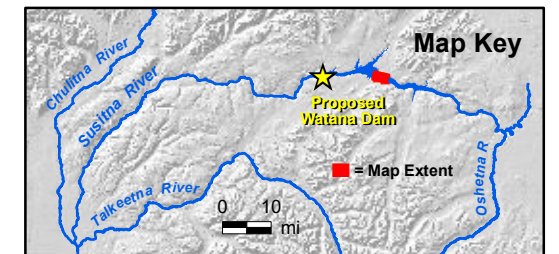


Map 15 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
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- Side Slough
- Upland Slough

Mesohabitat

- Tributary Mouth
- - - - Cascade
- - - - Rapid
- - - - Boulder Riffle
- - - - Riffle
- Run/Glide

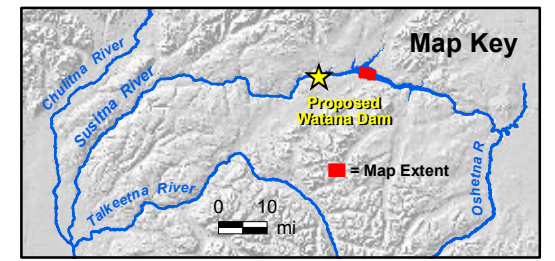
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

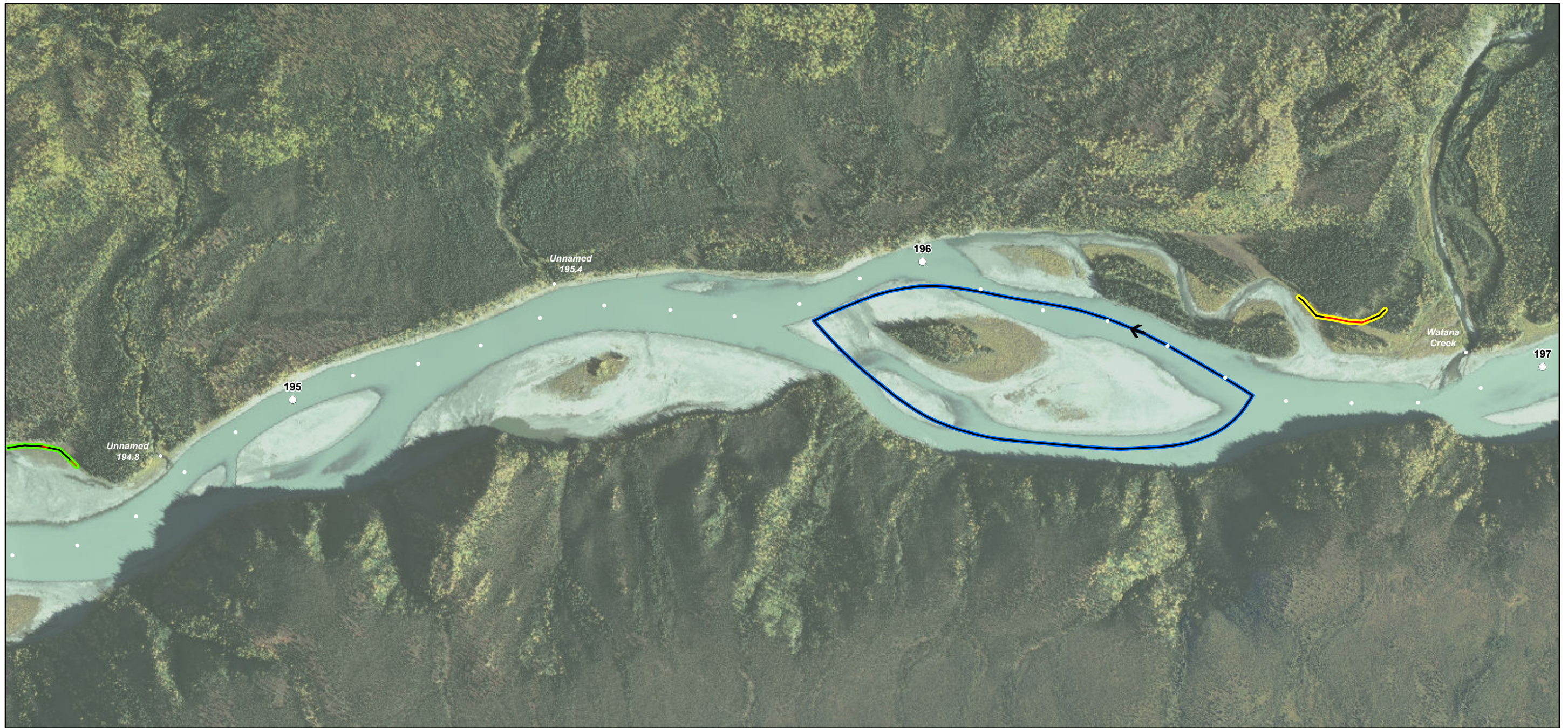
Map 16 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
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 File: Map_SCRB_FA_AQHAB_MS12.mxd





- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
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— Tributary Mouth

- Mesohabitat**
- - - - Cascade
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 - Run/Glide

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

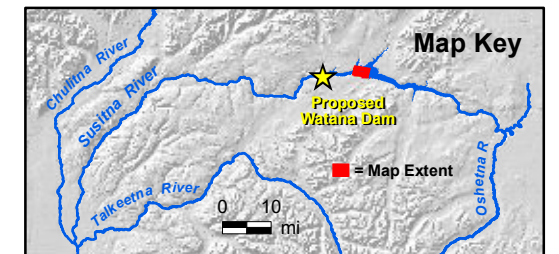


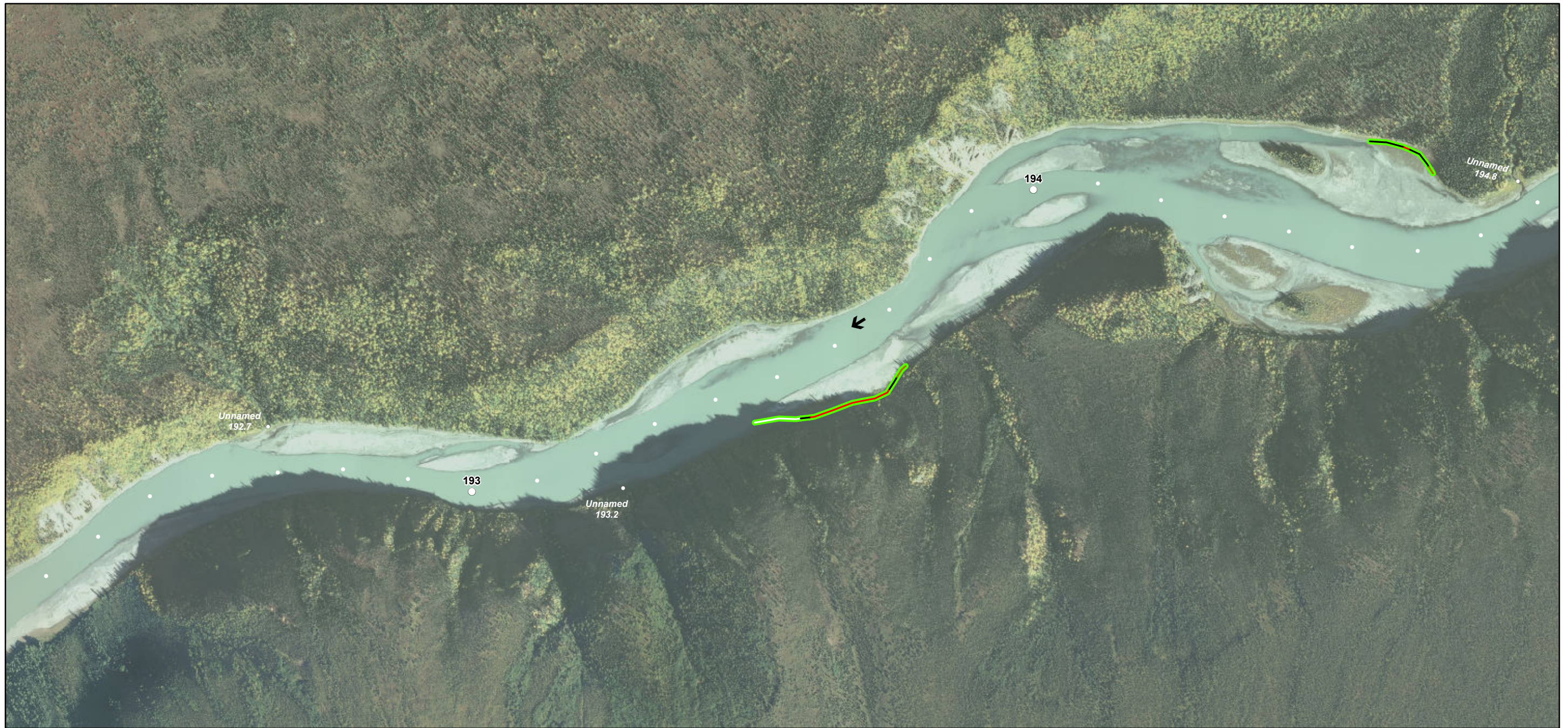
Map 17 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
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- Macrohabitat**
- Main Channel
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- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

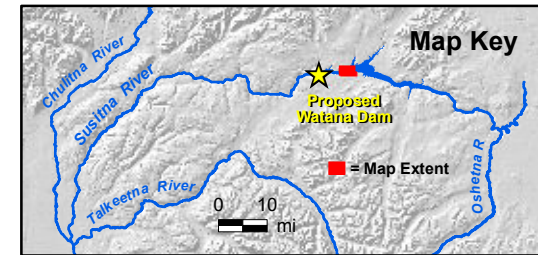
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

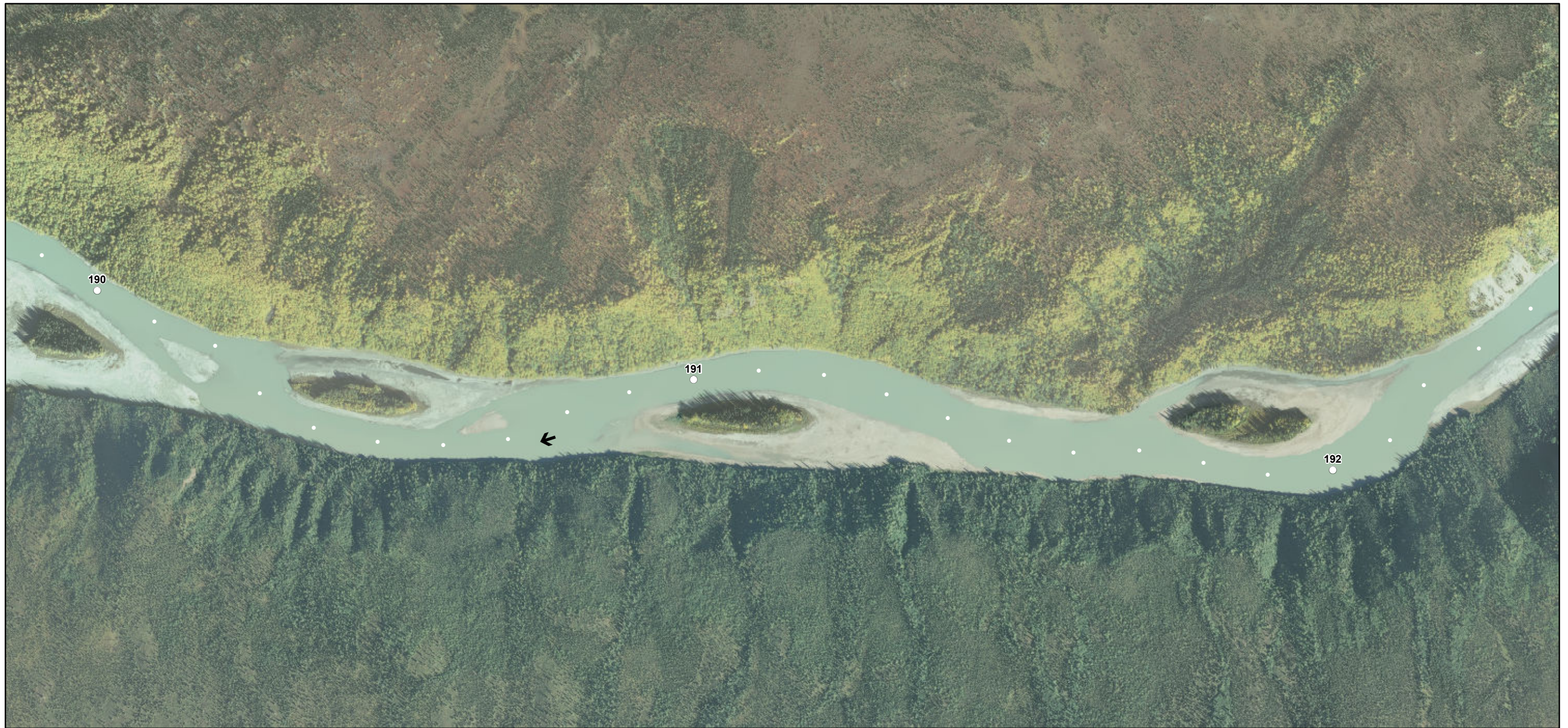
Map 18 of 55

ALASKA ENERGY AUTHORITY

0 1,000 Feet

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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
- - - - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

— Tributary Mouth

- Mesohabitat**
- - - - Cascade
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- Pool
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- Backwater/Alcove
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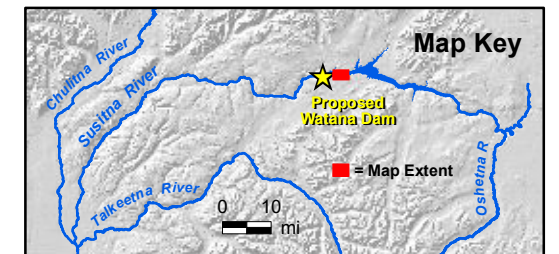


Map 19 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
- - - - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

— Tributary Mouth

- Mesohabitat**
- - - - Cascade
 - - - - Rapid
 - - - - Boulder Riffle
 - - - - Riffle
 - Run/Glide

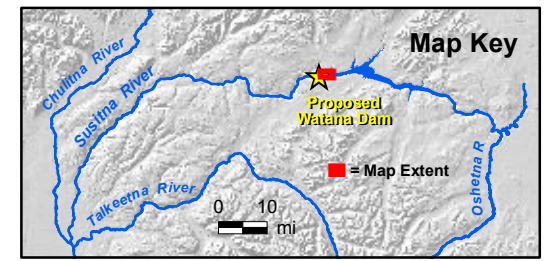
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

N
↑
Map 20 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
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- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

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Macrohabitat

- Main Channel
- Split Main Channel
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Mesohabitat

- Tributary Mouth
- - - - Cascade
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- - - - Riffle
- Run/Glide
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

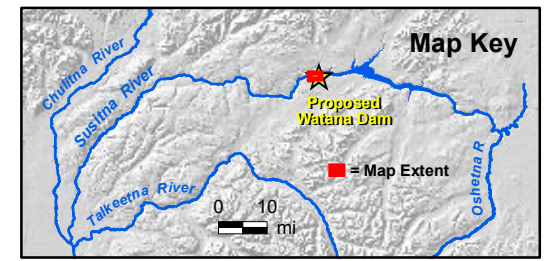


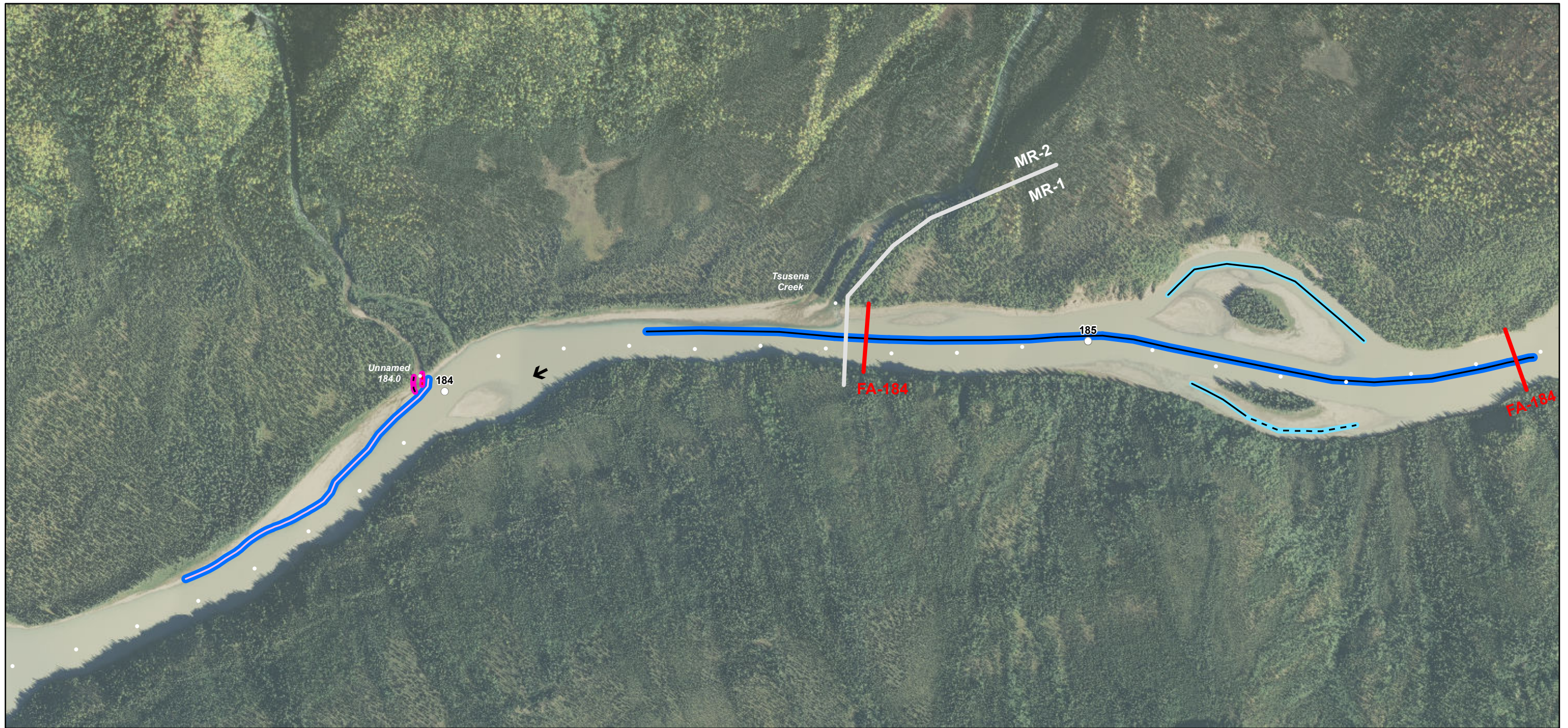
Map 21 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zabolney
 File: Map_SCRB_FA_AQHAB_MS12.mxd





- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- - - Split Main Channel
- · - · - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

— Tributary Mouth

- Mesohabitat**
- - - Cascade
 - · - · - Rapid
 - · - · - Boulder Riffle
 - - - Riffle
 - Run/Glide

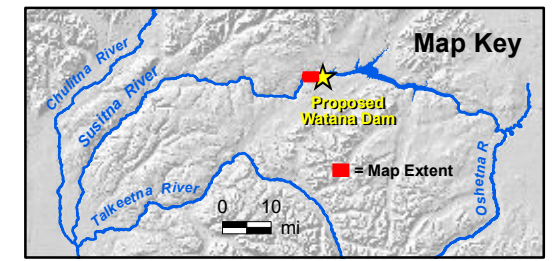
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

N
↑
Map 22 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
Date Created: 10/22/2015
Map Author: R2 - Joetta Zablony
File: Map_SCRB_FA_AQHAB_MS12.mxd





- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

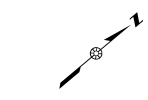
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
- - - - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

Mesohabitat

- Tributary Mouth
- - - - Cascade
- - - - Rapid
- - - - Boulder Riffle
- - - - Riffle
- Run/Glide
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

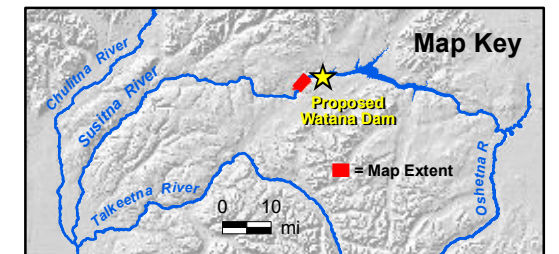


Map 23 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zablotney
 File: Map_SCRB_FA_AQHAB_MS12.mxd





- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

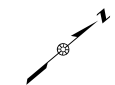
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
- - - - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

Mesohabitat

- Tributary Mouth
- - - - Cascade
- - - - Rapid
- - - - Boulder Riffle
- - - - Riffle
- Run/Glide
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

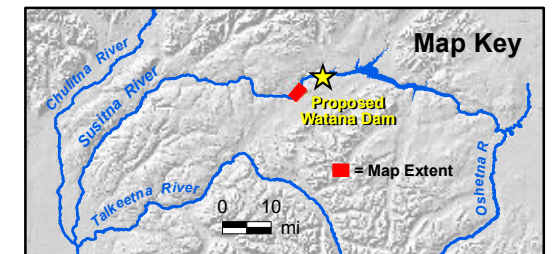


Map 24 of 55



0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zabloutney
 File: Map_SCRB_FA_AQHAB_MS12.mxd





- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

Macrohabitat

- Main Channel
- Split Main Channel
- - - - Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

Mesohabitat

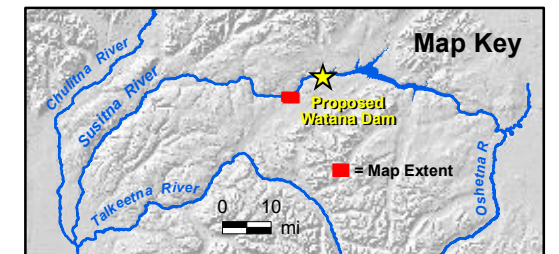
- Tributary Mouth
- - - - Cascade
- - - - Rapid
- - - - Boulder Riffle
- - - - Riffle
- Run/Glide
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

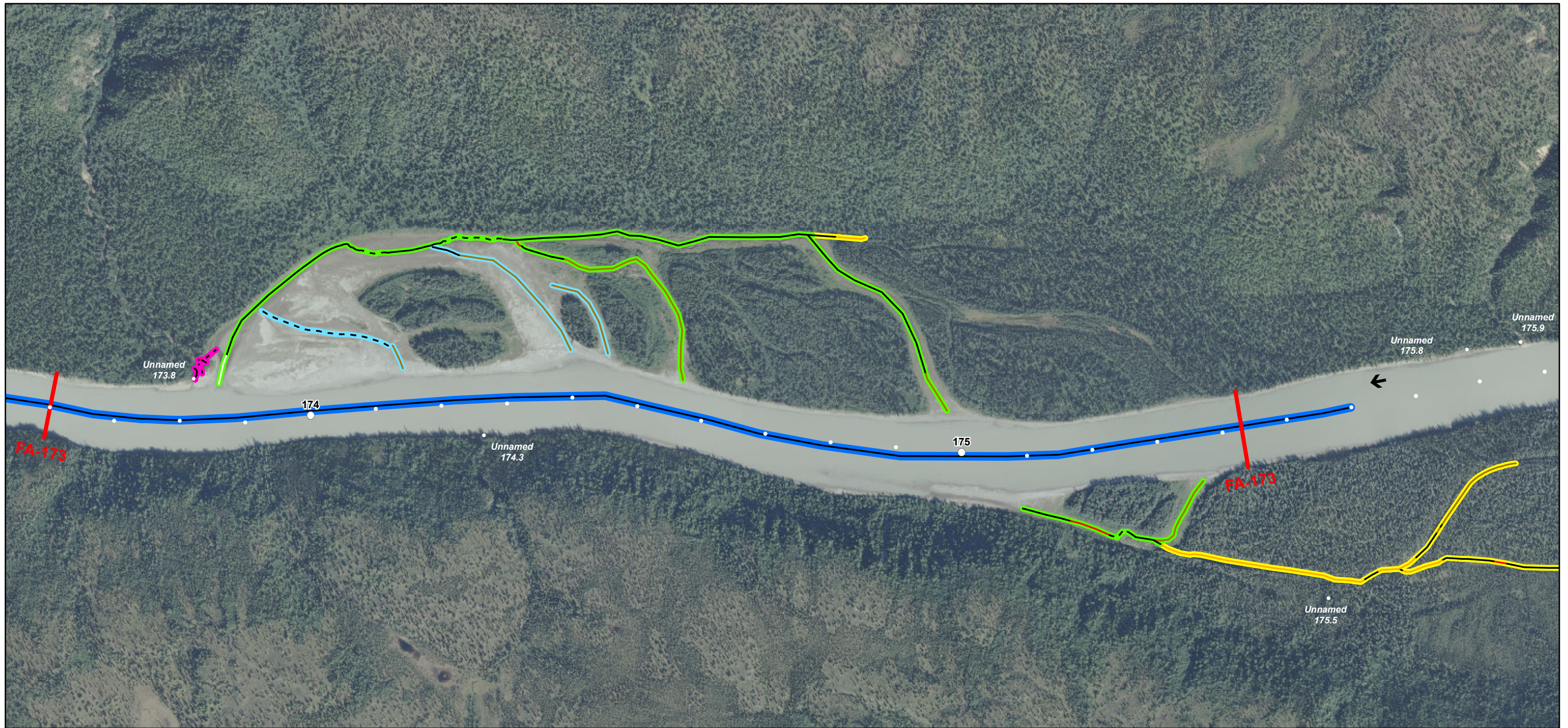


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Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zabolney
 File: Map_SCRB_FA_AQHAB_MS12.mxd





- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
 - Geomorphic Reach
 - Project River Mile
 - ← Flow Arrow

- Macrohabitat**
- Main Channel
 - Split Main Channel
 - Multi-Split Main Channel
 - Side Channel
 - Side Slough
 - Upland Slough

- Mesohabitat**
- Tributary Mouth
 - Cascade
 - Rapid
 - Boulder Riffle
 - Riffle
 - Run/Glide

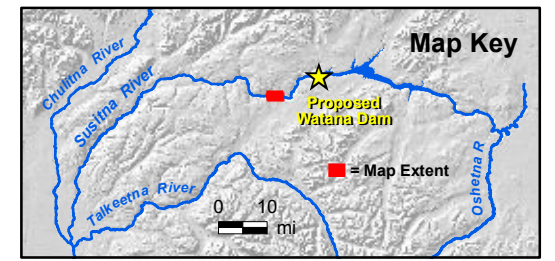
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

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Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zablony
 File: Map_SCRB_FA_AQHAB_MS12.mxd





Legend

- Instream Flow Focus Area (Upper and Lower Extent)
- Geomorphic Reach
- Project River Mile
- ← Flow Arrow

Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project


Macrohabitat



- Main Channel
- Split Main Channel
- Multi-Split Main Channel
- Side Channel
- Side Slough
- Upland Slough

Mesohabitat

- Tributary Mouth
- Cascade
- Rapid
- Boulder Riffle
- Riffle
- Run/Glide

- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond


Map 27 of 55


 0 1,000 Feet

 Projection: AK SP Zone 4 NAD 1983
 Date Created: 10/22/2015
 Map Author: R2 - Joetta Zabloney
 File: Map_SCRB_FA_AQHAB_MS12.mxd

