



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

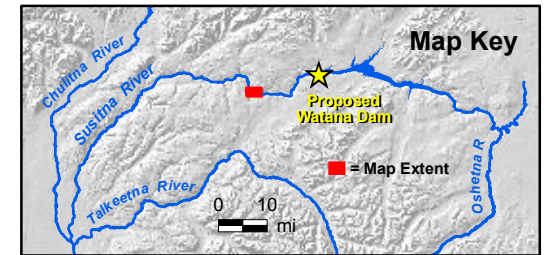
- |  |   |   |
|--|---|---|
| <b>Macrohabitat</b>  | <span style="color: magenta;">—</span> Tributary Mouth  | <span style="color: red;">—</span> Pool                   |
| <span style="color: blue;">—</span> Main Channel                 | <b>Mesohabitat</b>                                      | <span style="color: pink;">—</span> Clearwater Plume      |
| <span style="color: blue;">—</span> Split Main Channel           | <span style="color: pink;">- - -</span> Cascade         | <span style="color: gray;">—</span> Backwater/Alcove      |
| <span style="color: blue;">- - -</span> Multi-Split Main Channel | <span style="color: red;">- - -</span> Rapid            | <span style="color: brown;">—</span> Puddled/Dry          |
| <span style="color: lightblue;">—</span> Side Channel            | <span style="color: black;">- - -</span> Boulder Riffle | <span style="color: orange;">—</span> Beaver Complex/Pond |
| <span style="color: lightgreen;">—</span> Side Slough            | <span style="color: black;">- - -</span> Riffle         |   |
| <span style="color: yellow;">—</span> Upland Slough              | <span style="color: black;">—</span> Run/Glide          |   |

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

**Map 28 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**

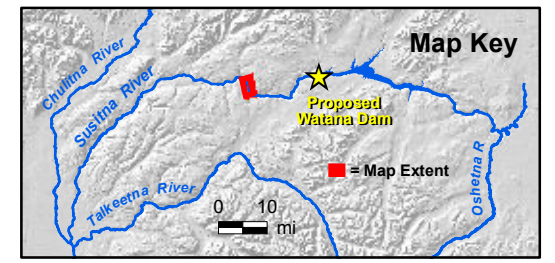
- Tributary Mouth
- - - - Cascade
- - - - Rapid
- - - - Boulder Riffle
- - - - Riffle
- Run/Glide

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

**ALASKA**  
ENERGY AUTHORITY

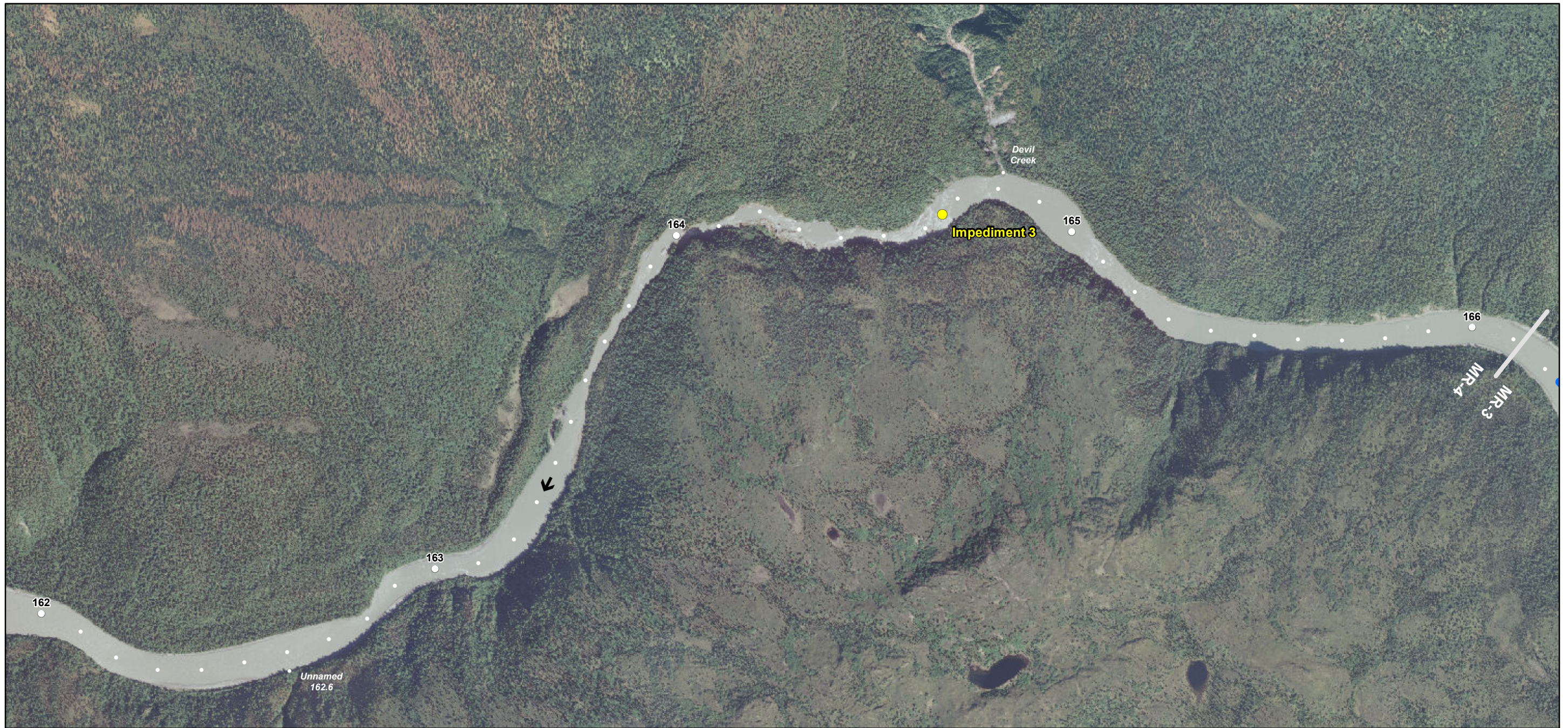
0 1,000  
Feet

Projection: AK SP Zone 4 NAD 1983  
Date Created: 10/22/2015  
Map Author: R2 - Joetta Zabolney  
File: Map\_SCRB\_FA\_AQHAB\_MSDC.mxd



**Map 29 of 55**





- 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

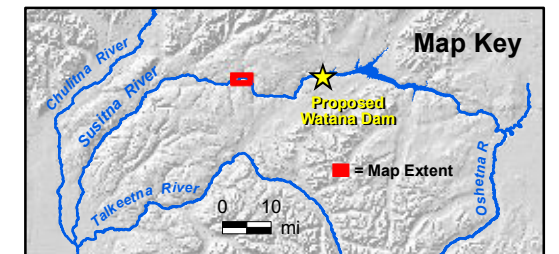


Map 30 of 55

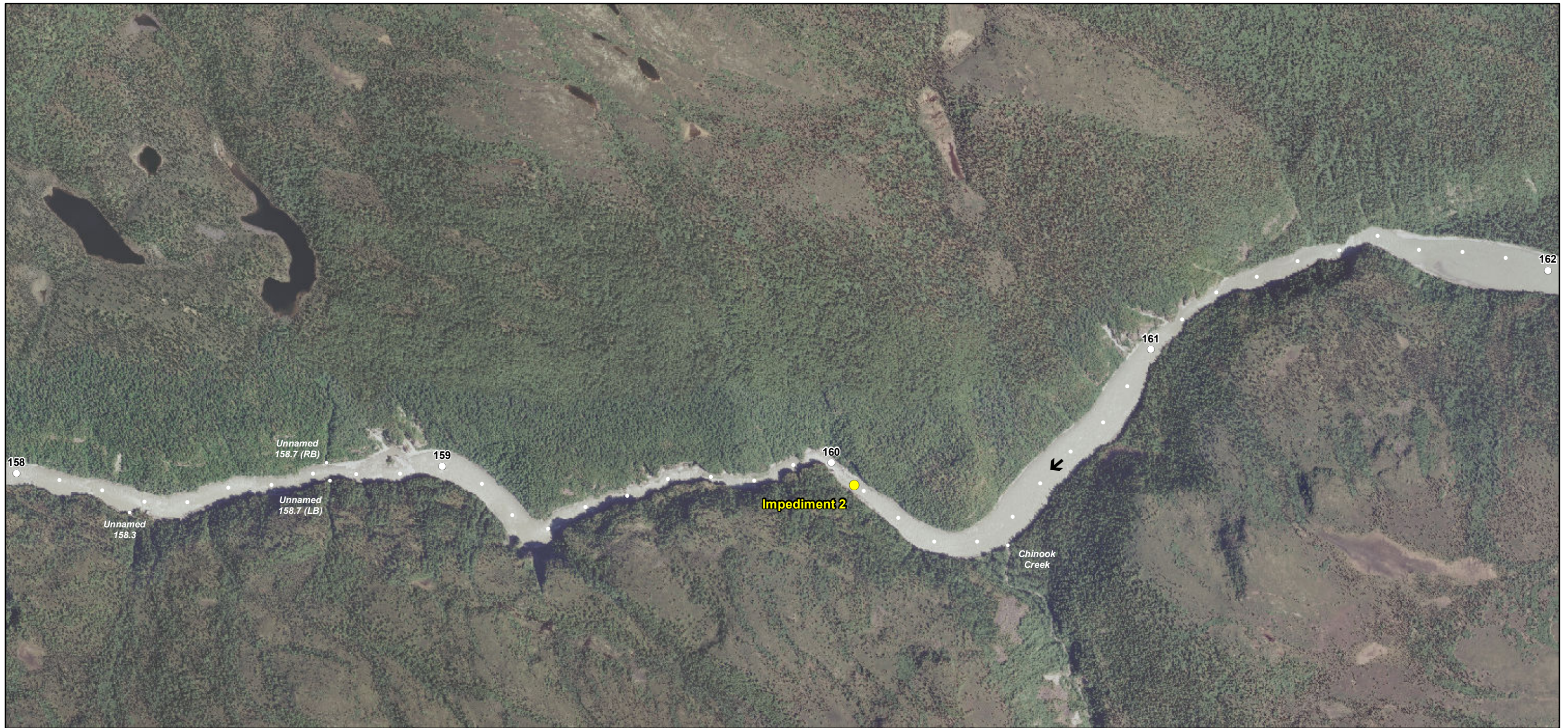


0 1,000 Feet

Projection: AK SP Zone 4 NAD 1983  
 Date Created: 10/22/2015  
 Map Author: R2 - Joetta Zabolney  
 File: Map\_SCRB\_FA\_AQHAB\_MSDC.mxd







**Legend**

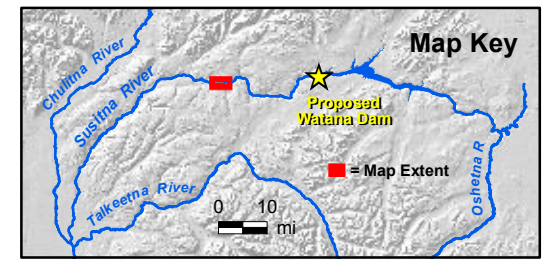
- Instream Flow Focus Area (Upper and Lower Extent)
- Geomorphic Reach
- Project River Mile
- ← Flow Arrow

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

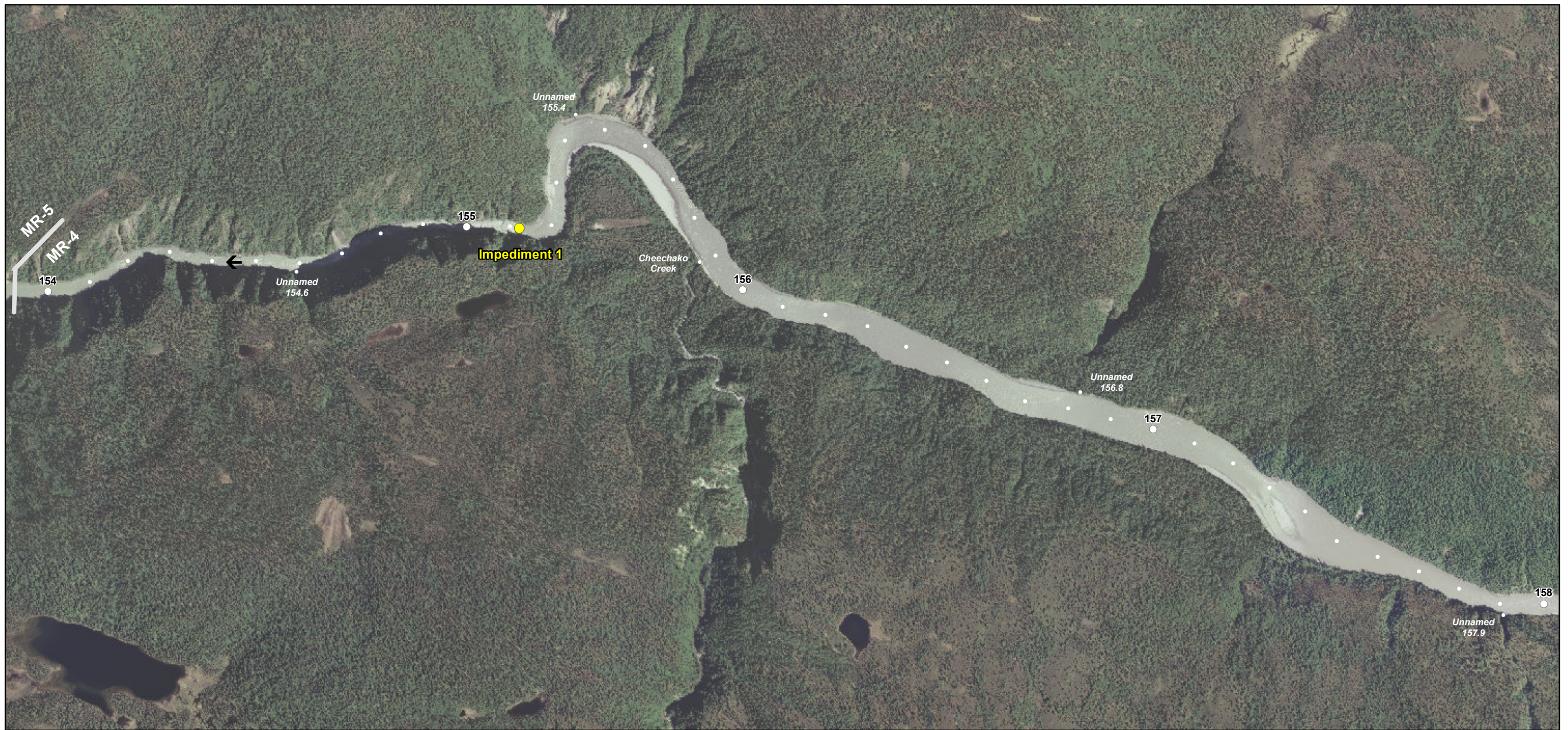
<b>Macrohabitat</b>	<span style="color: magenta;">—</span> Tributary Mouth	<span style="color: red;">—</span> Pool
<span style="color: blue;">—</span> Main Channel	<b>Mesohabitat</b>	<span style="color: pink;">—</span> Clearwater Plume
<span style="color: blue;">- - -</span> Split Main Channel	<span style="color: pink;">- - -</span> Cascade	<span style="border-bottom: 1px solid gray; width: 20px; display: inline-block;"></span> Backwater/Alcove
<span style="color: blue;">- - - - -</span> Multi-Split Main Channel	<span style="color: red;">- - - - -</span> Rapid	<span style="color: brown;">—</span> Puddled/Dry
<span style="color: lightblue;">—</span> Side Channel	<span style="border-bottom: 1px dashed black; width: 20px; display: inline-block;"></span> Boulder Riffle	<span style="color: orange;">—</span> Beaver Complex/Pond
<span style="color: lightgreen;">—</span> Side Slough	<span style="border-bottom: 1px dashed black; width: 20px; display: inline-block;"></span> Riffle	
<span style="color: yellow;">—</span> Upland Slough	<span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> Run/Glide	

**Map 31 of 55**

Projection: AK SP Zone 4 NAD 1983  
 Date Created: 10/22/2015  
 Map Author: R2 - Joetta Zabolney  
 File: Map\_SCRB\_FA\_AQHAB\_MSDC.mxd







**Legend**

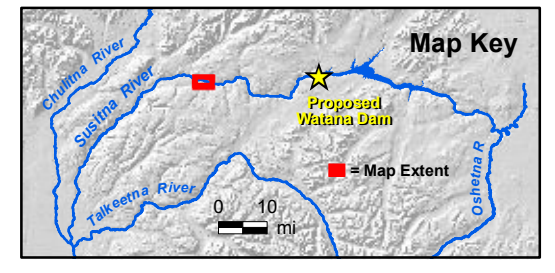
- Instream Flow Focus Area (Upper and Lower Extent)
- Geomorphic Reach
- Project River Mile
- ← Flow Arrow

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

<b>Macrohabitat</b>	<span style="color: blue;">—</span> Main Channel	<span style="color: magenta;">—</span> Tributary Mouth	<span style="color: red;">—</span> Pool
<span style="color: blue;">—</span> Split Main Channel	<span style="color: magenta;">—</span> Mesohabitat	<span style="color: pink;">—</span> Clearwater Plume	<span style="color: gray;">—</span> Backwater/Alcove
<span style="color: blue;">- - -</span> Multi-Split Main Channel	<span style="color: pink;">- - -</span> Cascade	<span style="color: brown;">—</span> Puddled/Dry	<span style="color: orange;">—</span> Beaver Complex/Pond
<span style="color: lightblue;">—</span> Side Channel	<span style="color: red;">- - -</span> Rapid	<span style="color: gray;">- - -</span> Boulder Riffle	
<span style="color: lightgreen;">—</span> Side Slough	<span style="color: black;">- - -</span> Riffle	<span style="color: black;">—</span> Run/Glide	
<span style="color: yellow;">—</span> Upland Slough			

**Map 32 of 55**

Projection: AK SP Zone 4 NAD 1983  
 Date Created: 10/22/2015  
 Map Author: R2 - Joetta Zabolney  
 File: Map\_SCRB\_FA\_AQHAB\_MSDC.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

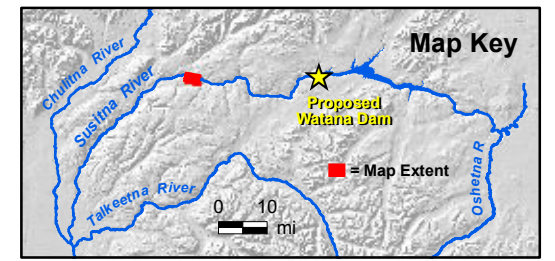


Map 33 of 55



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

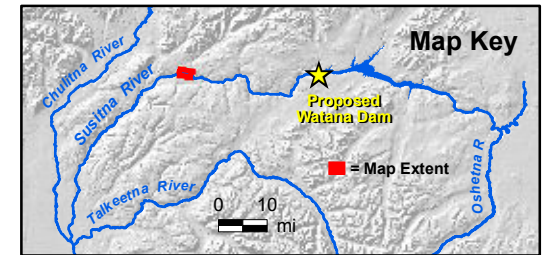
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

- |  |   |   |
|--|---|---|
| <b>Macrohabitat</b>  | <span style="color: magenta;">█</span> Tributary Mouth                      | <span style="color: red;">█</span> Pool                                     |
| <span style="color: blue;">█</span> Main Channel   | <b>Mesohabitat</b>  | <span style="color: pink;">█</span> Clearwater Plume                        |
| <span style="color: blue; border-bottom: 1px dashed blue;">█</span> Split Main Channel       | <span style="color: pink; border-bottom: 1px dashed pink;">█</span> Cascade | <span style="border-bottom: 1px solid gray;">█</span> Backwater/Alcove      |
| <span style="color: blue; border-bottom: 1px dotted blue;">█</span> Multi-Split Main Channel | <span style="color: red; border-bottom: 1px dotted red;">█</span> Rapid     | <span style="border-bottom: 1px solid brown;">█</span> Puddled/Dry          |
| <span style="color: lightblue;">█</span> Side Channel  | <span style="border-bottom: 1px dashed black;">█</span> Boulder Riffle      | <span style="border-bottom: 1px solid orange;">█</span> Beaver Complex/Pond |
| <span style="color: lightgreen;">█</span> Side Slough  | <span style="border-bottom: 1px dashed black;">█</span> Riffle              |   |
| <span style="color: yellow;">█</span> Upland Slough  | <span style="border-bottom: 1px solid black;">█</span> Run/Glide            |   |

**Map 34 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

— Tributary Mouth

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

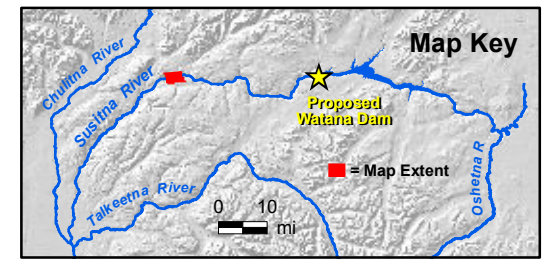
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

  
**Map 35 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

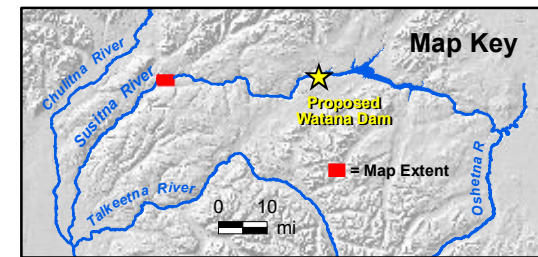
- |  |  |   |
|--|--|---|
| <b>Macrohabitat</b>  | <span style="color: magenta;">—</span> Tributary Mouth     | <span style="color: red;">—</span> Pool                   |
| <span style="color: blue;">—</span> Main Channel                     | <b>Mesohabitat</b>   | <span style="color: pink;">—</span> Clearwater Plume      |
| <span style="color: blue;">- - -</span> Split Main Channel           | <span style="color: pink;">- - -</span> Cascade            | <span style="color: gray;">—</span> Backwater/Alcove      |
| <span style="color: blue;">- - - - -</span> Multi-Split Main Channel | <span style="color: red;">- - - - -</span> Rapid           | <span style="color: brown;">—</span> Puddled/Dry          |
| <span style="color: lightblue;">—</span> Side Channel                | <span style="color: gray;">- - - - -</span> Boulder Riffle | <span style="color: orange;">—</span> Beaver Complex/Pond |
| <span style="color: green;">—</span> Side Slough                     | <span style="color: gray;">- - -</span> Riffle             |   |
| <span style="color: yellow;">—</span> Upland Slough                  | <span style="color: black;">—</span> Run/Glide             |   |

Map 36 of 55

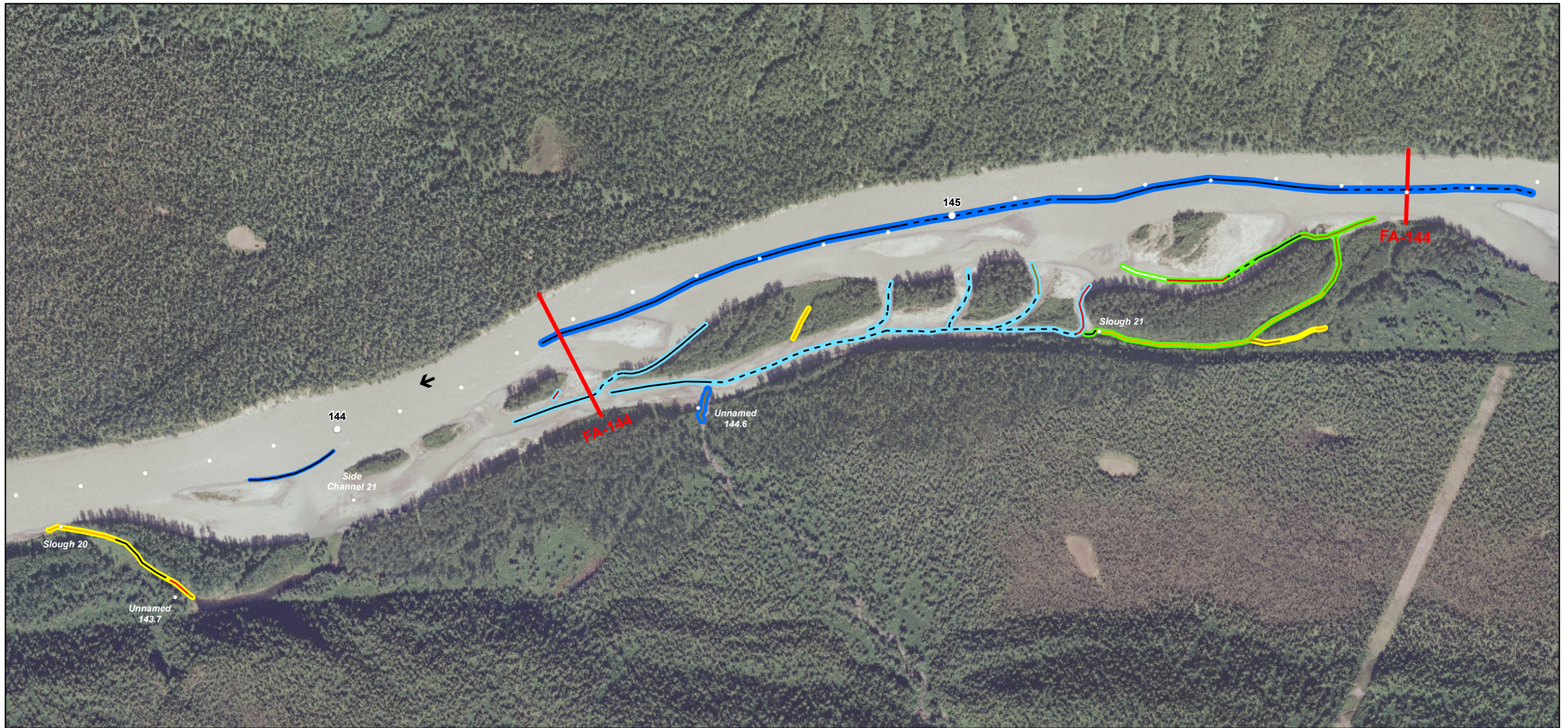
**ALASKA ENERGY AUTHORITY**

0 1,000 Feet

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

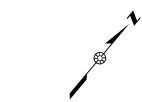
**Macrohabitat**

- 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

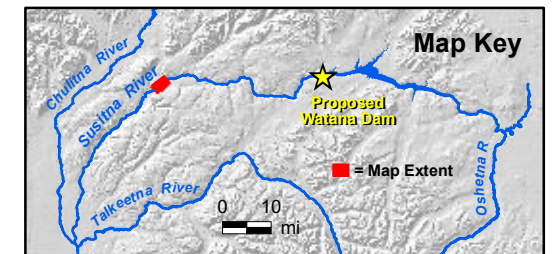


Map 37 of 55

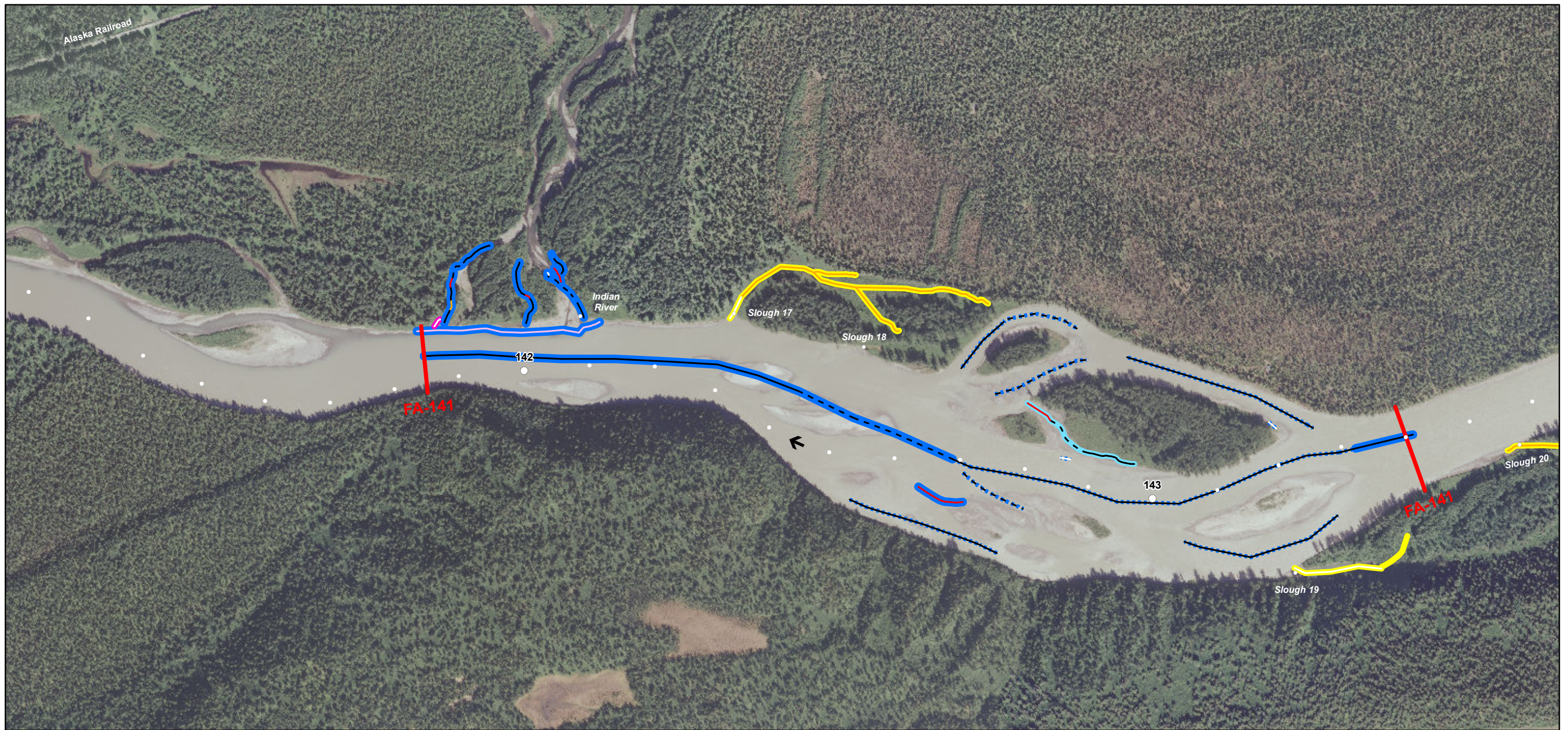


0 1,000 Feet

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

Tributary Mouth

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

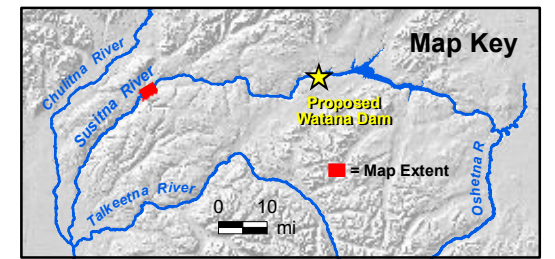
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

**Map 38 of 55**

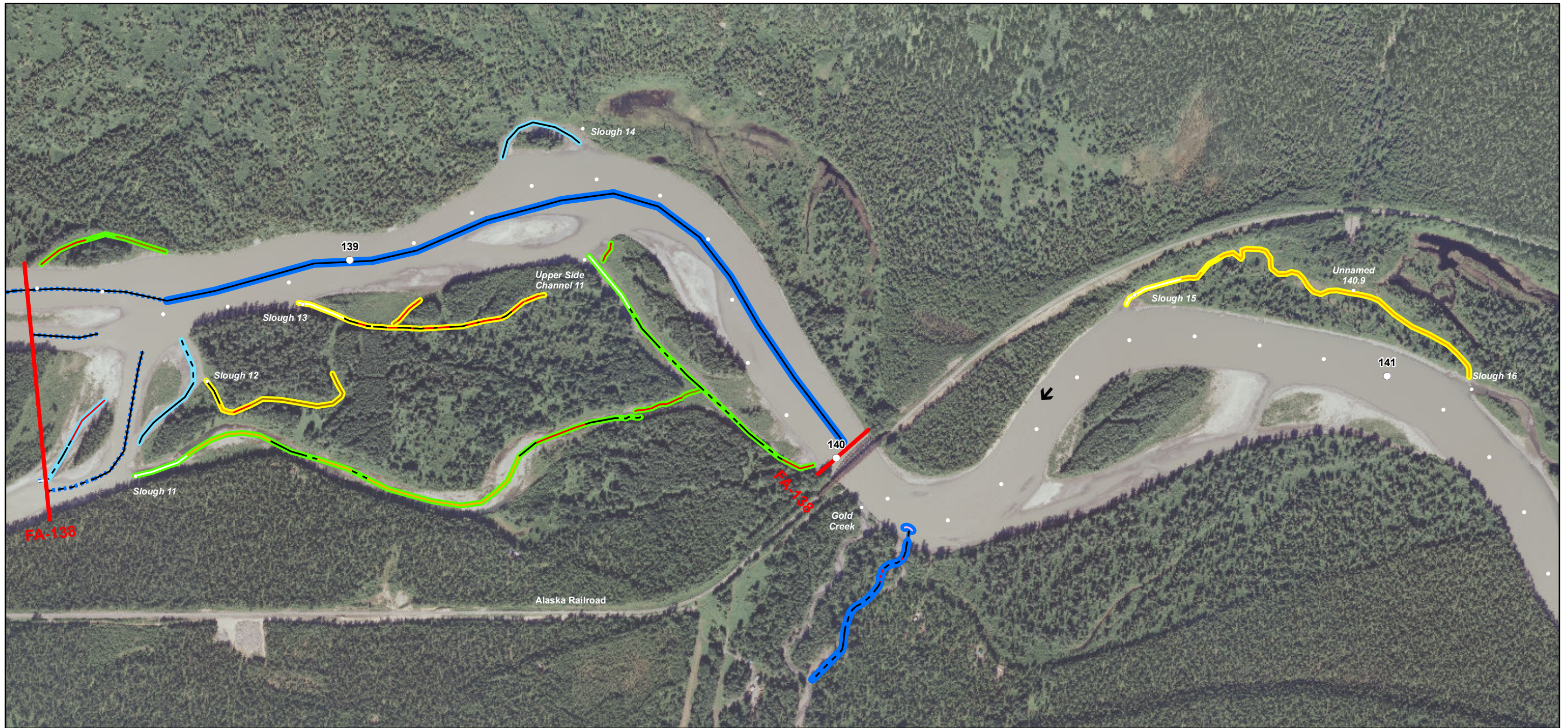


0 1,000 Feet

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

**Mesohabitat**

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

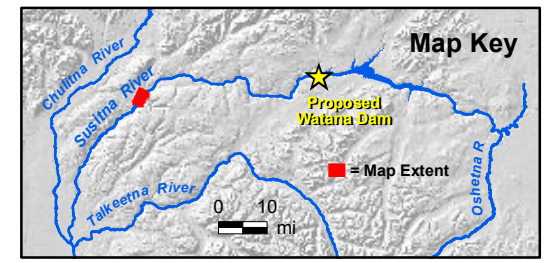
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

Map 39 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







- 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

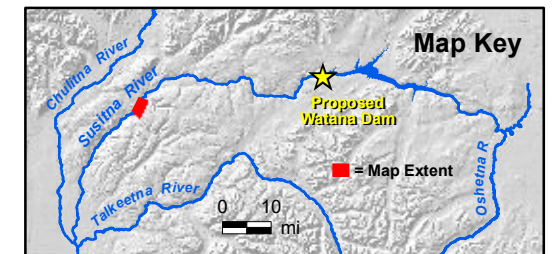


Map 40 of 55



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

- 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

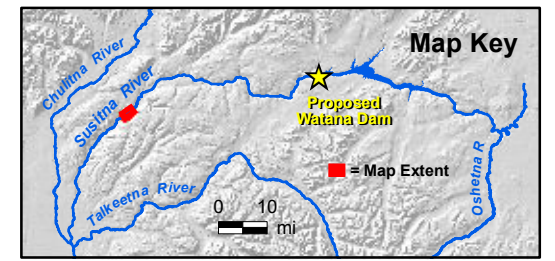
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

**Map 41 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







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

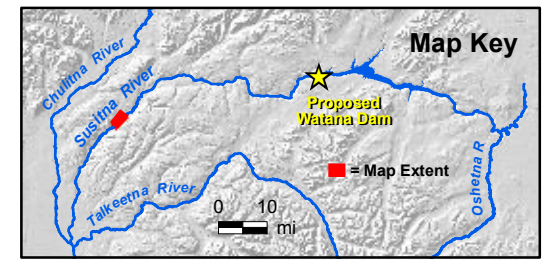
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

- |                     |  |   |   |
|---------------------|--|---|---|
| <b>Macrohabitat</b> | <span style="color: blue;">—</span> Main Channel                 | <span style="color: magenta;">—</span> Tributary Mouth  | <span style="color: red;">—</span> Pool                   |
|                     | <span style="color: blue;">—</span> Split Main Channel           | <b>Mesohabitat</b>                                      | <span style="color: pink;">—</span> Clearwater Plume      |
|                     | <span style="color: blue;">- - -</span> Multi-Split Main Channel | <span style="color: pink;">- - -</span> Cascade         | <span style="color: gray;">—</span> Backwater/Alcove      |
|                     | <span style="color: lightblue;">—</span> Side Channel            | <span style="color: red;">- - -</span> Rapid            | <span style="color: brown;">—</span> Puddled/Dry          |
|                     | <span style="color: green;">—</span> Side Slough                 | <span style="color: black;">- - -</span> Boulder Riffle | <span style="color: orange;">—</span> Beaver Complex/Pond |
|                     | <span style="color: yellow;">—</span> Upland Slough              | <span style="color: black;">- - -</span> Riffle         |   |
|                     |  | <span style="color: black;">—</span> Run/Glide          |   |

**Map 42 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

**Mesohabitat**

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

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

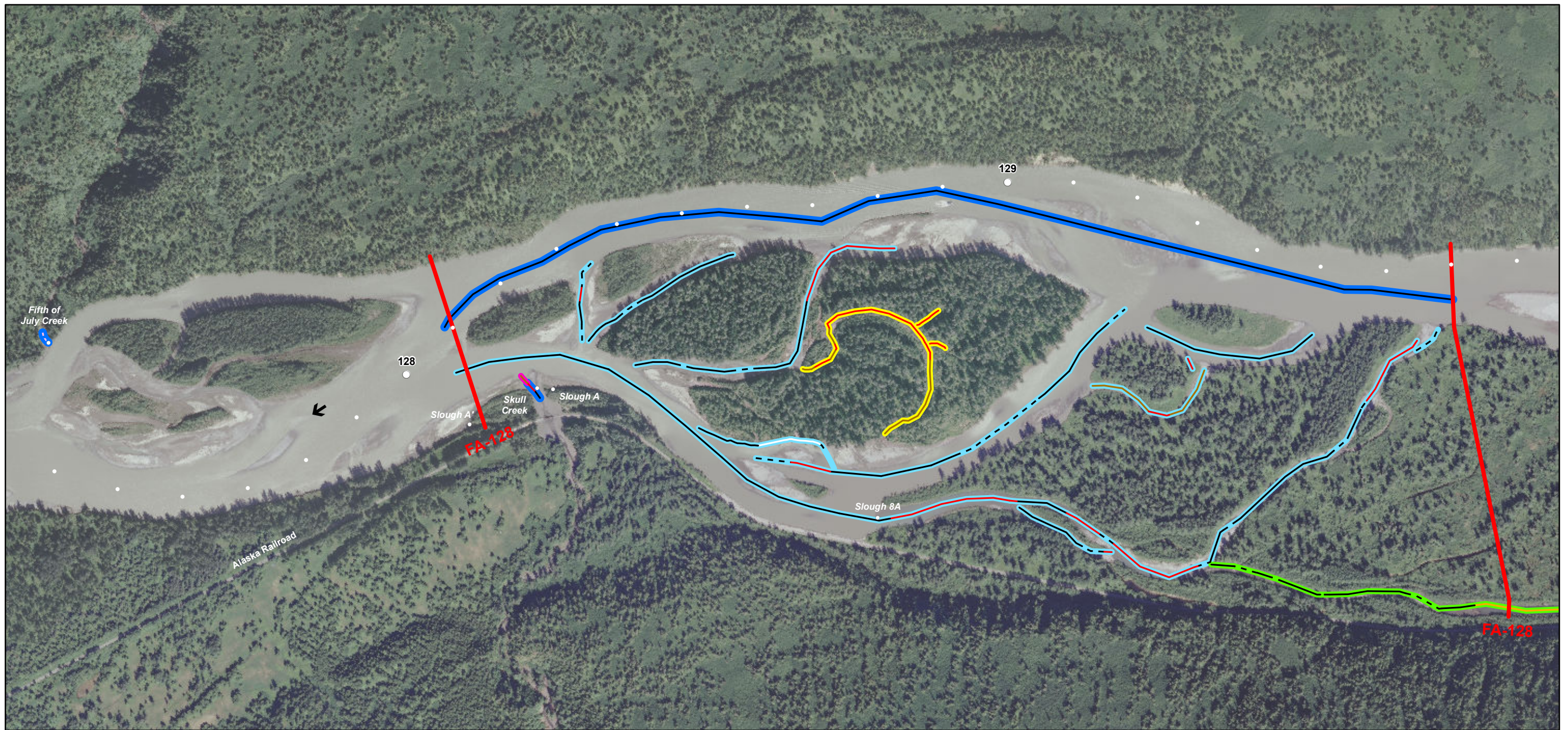
**Map 43 of 55**

**ALASKA ENERGY AUTHORITY**

Projection: AK SP Zone 4 NAD 1983  
 Date Created: 10/22/2015  
 Map Author: R2 - Joetta Zabloutney  
 File: Map\_SCRB\_FA\_AQHAB\_MS12.mxd

**Map Key**





**Legend**

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

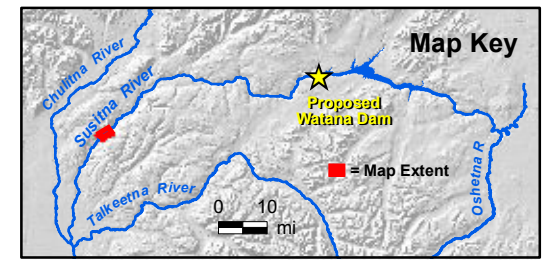
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

<b>Macrohabitat</b>	<span style="color: blue;">—</span> Main Channel	<span style="color: magenta;">—</span> Tributary Mouth	<span style="color: red;">—</span> Pool
<span style="color: blue;">—</span> Split Main Channel	<span style="color: magenta;">—</span> Mesohabitat	<span style="color: pink;">—</span> Clearwater Plume	<span style="color: lightblue;">—</span> Backwater/Alcove
<span style="color: blue;">- - -</span> Multi-Split Main Channel	<span style="color: pink;">- - -</span> Cascade	<span style="color: gray;">—</span> Puddled/Dry	<span style="color: yellow;">—</span> Beaver Complex/Pond
<span style="color: lightblue;">—</span> Side Channel	<span style="color: red;">- - -</span> Rapid	<span style="color: brown;">- - -</span> Boulder Riffle	<span style="color: black;">- - -</span> Riffle
<span style="color: green;">—</span> Side Slough	<span style="color: black;">- - -</span> Run/Glide		
<span style="color: yellow;">—</span> Upland Slough			

**Map 44 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







<b>Legend</b>		<b>Macrohabitat</b>	<b>Mesohabitat</b>	<b>ALASKA ENERGY AUTHORITY</b>	
<ul style="list-style-type: none"> <li><span style="color: red;">—</span> Instream Flow Focus Area (Upper and Lower Extent)</li> <li><span style="border-bottom: 1px solid gray; width: 20px; display: inline-block;"></span> Geomorphic Reach</li> <li><span style="border: 1px solid gray; border-radius: 50%; width: 10px; height: 10px; display: inline-block;"></span> Project River Mile</li> <li><span style="color: black;">←</span> Flow Arrow</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid blue; width: 20px; display: inline-block;"></span> Main Channel</li> <li><span style="border-bottom: 2px dashed blue; width: 20px; display: inline-block;"></span> Split Main Channel</li> <li><span style="border-bottom: 2px dotted blue; width: 20px; display: inline-block;"></span> Multi-Split Main Channel</li> <li><span style="border-bottom: 2px solid lightblue; width: 20px; display: inline-block;"></span> Side Channel</li> <li><span style="border-bottom: 2px solid green; width: 20px; display: inline-block;"></span> Side Slough</li> <li><span style="border-bottom: 2px solid yellow; width: 20px; display: inline-block;"></span> Upland Slough</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid magenta; width: 20px; display: inline-block;"></span> Tributary Mouth</li> <li><span style="border-bottom: 2px dashed magenta; width: 20px; display: inline-block;"></span> Cascade</li> <li><span style="border-bottom: 2px dotted magenta; width: 20px; display: inline-block;"></span> Rapid</li> <li><span style="border-bottom: 2px dashed black; width: 20px; display: inline-block;"></span> Boulder Riffle</li> <li><span style="border-bottom: 2px dashed gray; width: 20px; display: inline-block;"></span> Riffle</li> <li><span style="border-bottom: 2px solid black; width: 20px; display: inline-block;"></span> Run/Glide</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span> Pool</li> <li><span style="border-bottom: 2px solid lightblue; width: 20px; display: inline-block;"></span> Clearwater Plume</li> <li><span style="border-bottom: 2px solid gray; width: 20px; display: inline-block;"></span> Backwater/Alcove</li> <li><span style="border-bottom: 2px solid brown; width: 20px; display: inline-block;"></span> Puddled/Dry</li> <li><span style="border-bottom: 2px solid orange; width: 20px; display: inline-block;"></span> Beaver Complex/Pond</li> </ul>	<p><b>Map 45 of 55</b></p>	





- 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

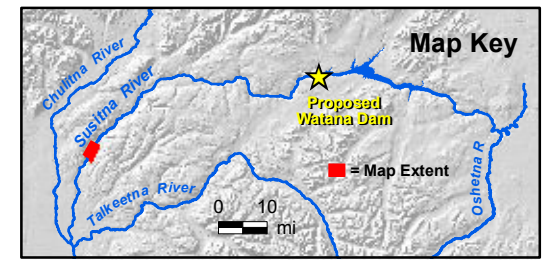
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond

**Map 46 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

**Mesohabitat**

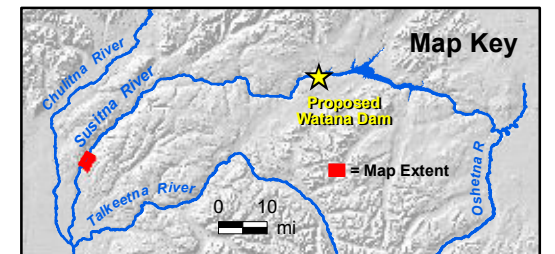
- Tributary Mouth
- - - - Cascade
- - - - Rapid
- - - - Boulder Riffle
- - - - Riffle
- Run/Glide
- Pool
- Clearwater Plume
- Backwater/Alcove
- Puddled/Dry
- Beaver Complex/Pond



Map 47 of 55



Projection: AK SP Zone 4 NAD 1983  
 Date Created: 10/22/2015  
 Map Author: R2 - Joetta Zabolney  
 File: Map\_SCRB\_FA\_AQHAB\_MS12.mxd



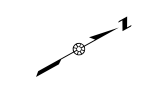




- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
  - Geomorphic Reach
  - Project River Mile
  - ← Flow Arrow

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

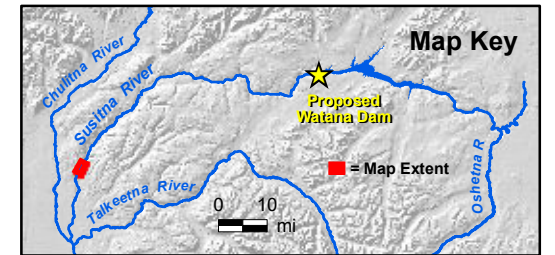
- |  |  |   |
|--|--|---|
| <b>Macrohabitat</b>  | <span style="color: magenta;">—</span> Tributary Mouth | <span style="color: red;">—</span> Pool                   |
| <span style="color: blue;">—</span> Main Channel                 | <b>Mesohabitat</b>                                     | <span style="color: pink;">—</span> Clearwater Plume      |
| <span style="color: blue;">—</span> Split Main Channel           | <span style="color: pink;">- - -</span> Cascade        | <span style="color: gray;">—</span> Backwater/Alcove      |
| <span style="color: blue;">- - -</span> Multi-Split Main Channel | <span style="color: red;">- - -</span> Rapid           | <span style="color: brown;">—</span> Puddled/Dry          |
| <span style="color: lightblue;">—</span> Side Channel            | <span style="color: gray;">- - -</span> Boulder Riffle | <span style="color: orange;">—</span> Beaver Complex/Pond |
| <span style="color: lightgreen;">—</span> Side Slough            | <span style="color: black;">- - -</span> Riffle        |   |
| <span style="color: yellow;">—</span> Upland Slough              | <span style="color: black;">—</span> Run/Glide         |   |



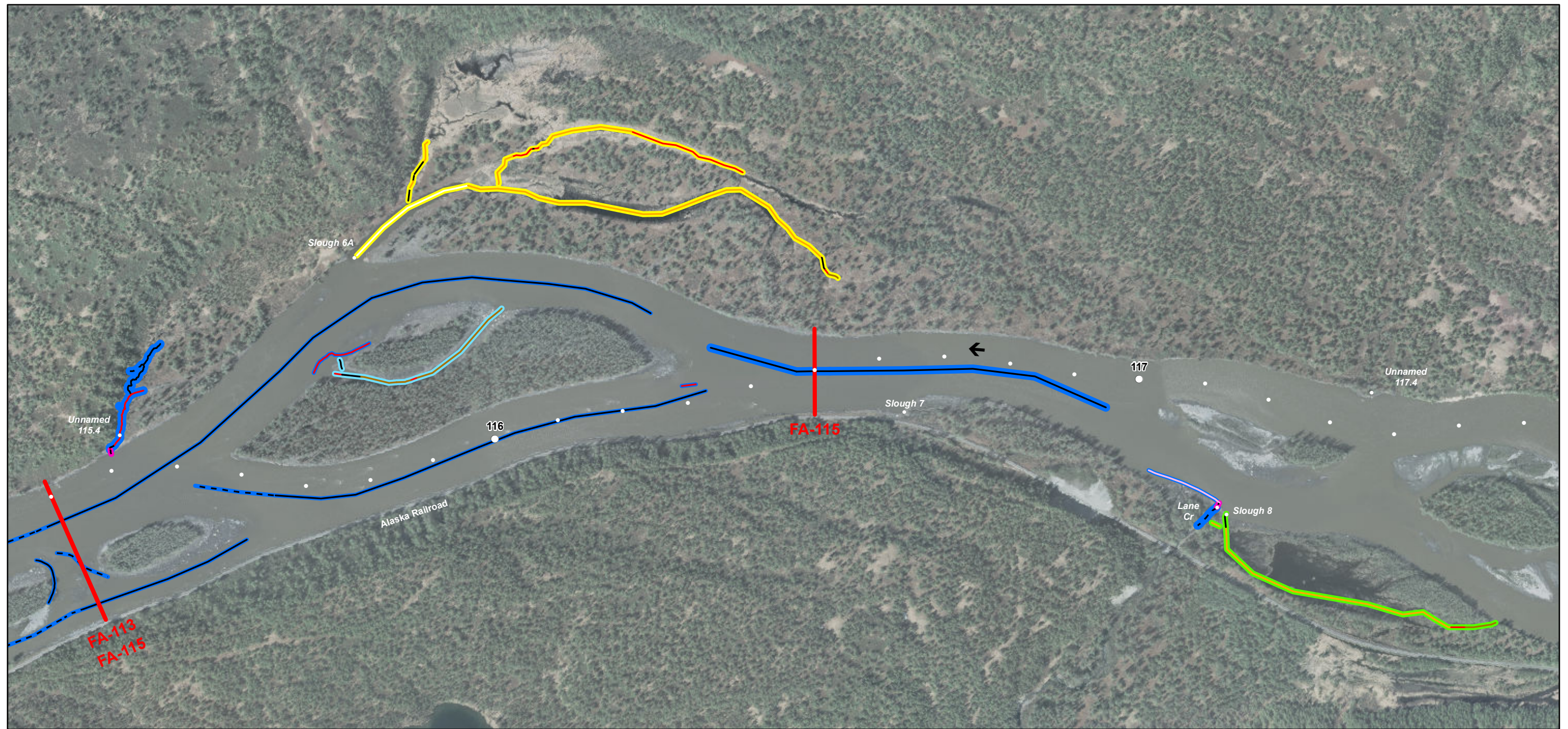
Map 48 of 55



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

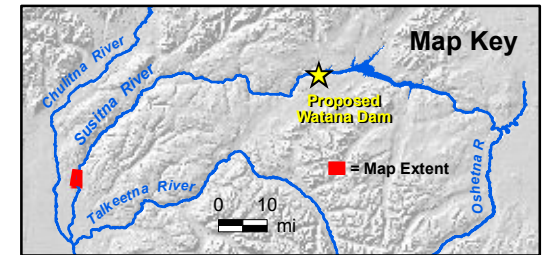
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

<b>Macrohabitat</b>	<span style="color: blue;">—</span> Main Channel	<span style="color: magenta;">—</span> Tributary Mouth	<span style="color: red;">—</span> Pool
<span style="color: blue;">—</span> Split Main Channel	<span style="color: magenta;">—</span> Mesohabitat	<span style="color: pink;">—</span> Clearwater Plume	<span style="color: gray;">—</span> Backwater/Alcove
<span style="color: blue;">- - -</span> Multi-Split Main Channel	<span style="color: pink;">- - -</span> Cascade	<span style="color: brown;">—</span> Puddled/Dry	<span style="color: orange;">—</span> Beaver Complex/Pond
<span style="color: lightblue;">—</span> Side Channel	<span style="color: red;">- - -</span> Rapid	<span style="color: gray;">- - -</span> Boulder Riffle	
<span style="color: green;">—</span> Side Slough	<span style="color: black;">- - -</span> Riffle	<span style="color: black;">—</span> Run/Glide	
<span style="color: yellow;">—</span> Upland Slough			

**ALASKA ENERGY AUTHORITY**

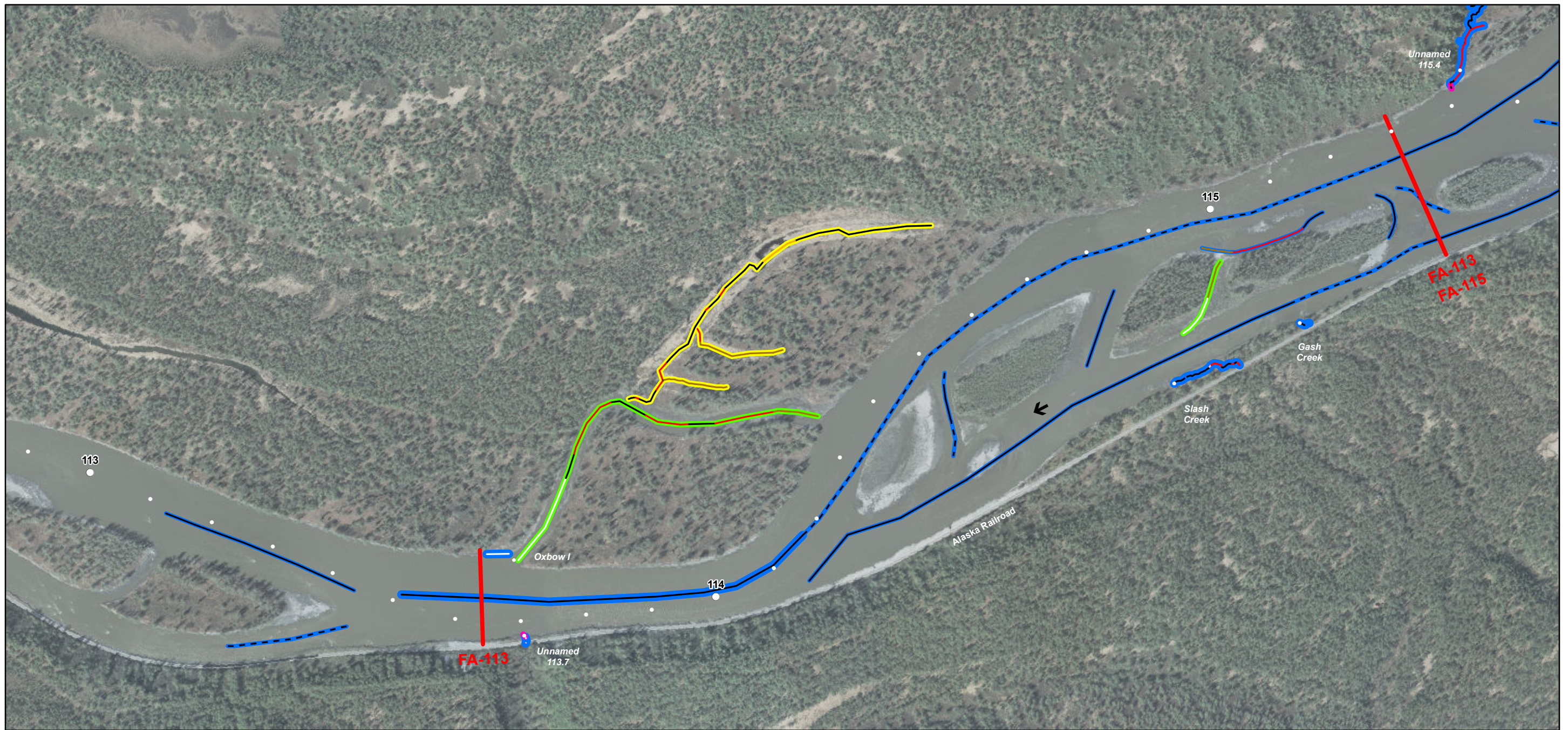
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Projection: AK SP Zone 4 NAD 1983  
 Date Created: 10/22/2015  
 Map Author: R2 - Joetta Zabloutney  
 File: Map\_SCRB\_FA\_AQHAB\_MS12.mxd



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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

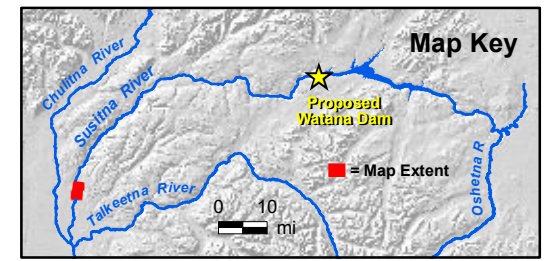
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project



0 1,000 Feet

Map 50 of 55

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

- 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

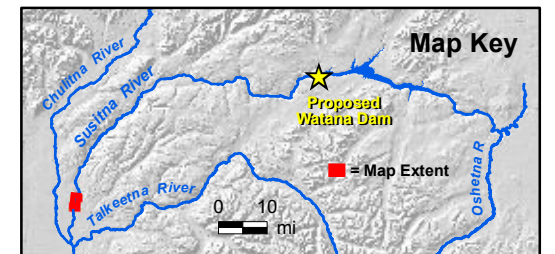
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project



0 1,000 Feet

Map 51 of 55

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

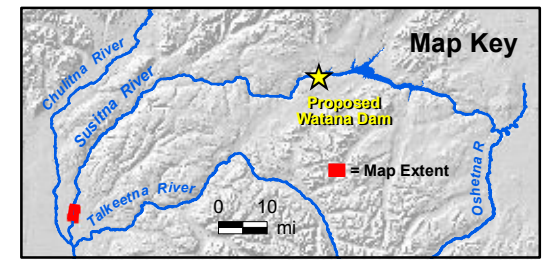
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

<b>Macrohabitat</b>	<span style="color: blue;">—</span> Main Channel	<span style="color: magenta;">—</span> Tributary Mouth	<span style="color: red;">—</span> Pool
	<span style="color: blue;">- - -</span> Split Main Channel	<b>Mesohabitat</b>	<span style="color: pink;">—</span> Clearwater Plume
	<span style="color: blue;">. . . . .</span> Multi-Split Main Channel	<span style="color: pink;">- - -</span> Cascade	<span style="color: gray;">—</span> Backwater/Alcove
	<span style="color: cyan;">—</span> Side Channel	<span style="color: red;">- - -</span> Rapid	<span style="color: brown;">—</span> Puddled/Dry
	<span style="color: green;">—</span> Side Slough	<span style="color: black;">- - - -</span> Boulder Riffle	<span style="color: orange;">—</span> Beaver Complex/Pond
	<span style="color: yellow;">—</span> Upland Slough	<span style="color: black;">- - -</span> Riffle	
		<span style="color: black;">—</span> Run/Glide	

**Map 52 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







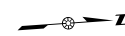
- Legend**
- Instream Flow Focus Area (Upper and Lower Extent)
  - Geomorphic Reach
  - Project River Mile
  - ← Flow Arrow

- 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

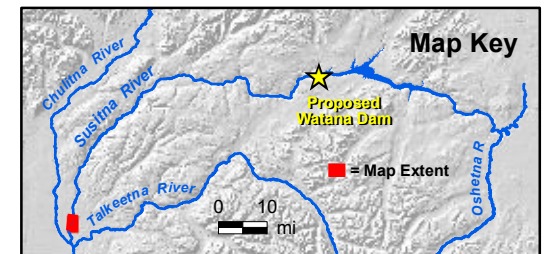
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project



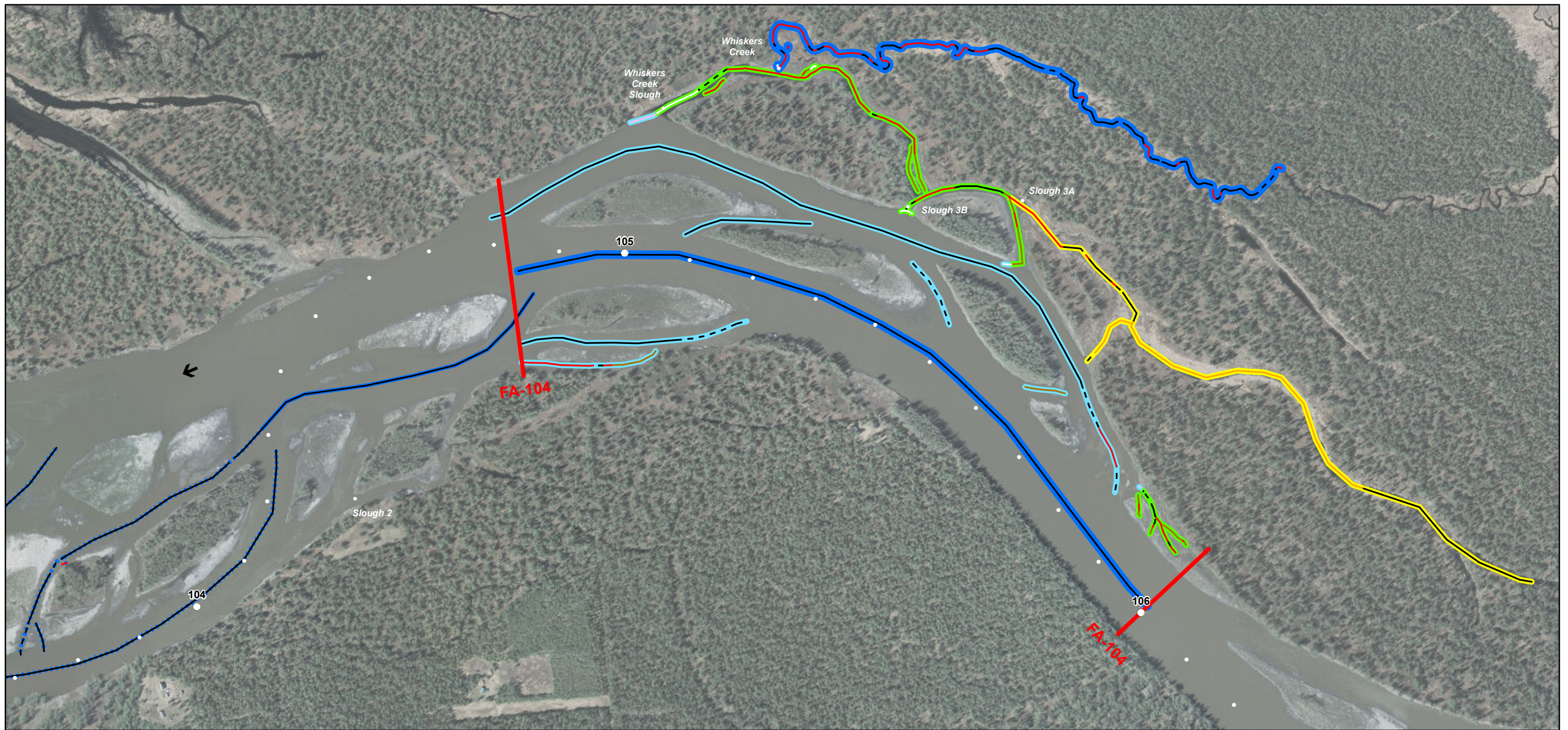
0 1,000 Feet

Map 53 of 55

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

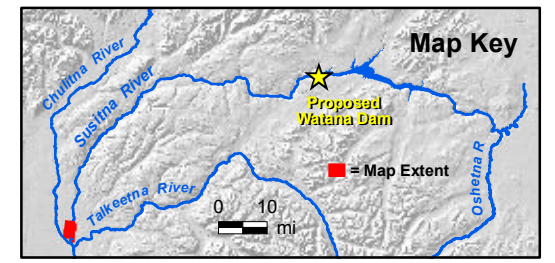
Orthophoto Source: 2011 Matanuska-Susitna Borough LiDAR & Imagery Project

<b>Macrohabitat</b>	<span style="color: blue;">—</span> Main Channel	<span style="color: magenta;">—</span> Tributary Mouth	<span style="color: red;">—</span> Pool
<span style="color: blue;">—</span> Split Main Channel	<span style="color: magenta;">—</span> Mesohabitat	<span style="color: pink;">—</span> Clearwater Plume	<span style="color: lightgray;">—</span> Backwater/Alcove
<span style="color: blue;">- - -</span> Multi-Split Main Channel	<span style="color: pink;">- - -</span> Cascade	<span style="color: brown;">—</span> Puddled/Dry	<span style="color: orange;">—</span> Beaver Complex/Pond
<span style="color: cyan;">—</span> Side Channel	<span style="color: red;">- - -</span> Rapid	<span style="color: black;">- - -</span> Boulder Riffle	
<span style="color: green;">—</span> Side Slough	<span style="color: black;">- - -</span> Riffle	<span style="color: black;">—</span> Run/Glide	
<span style="color: yellow;">—</span> Upland Slough			

**ALASKA ENERGY AUTHORITY**

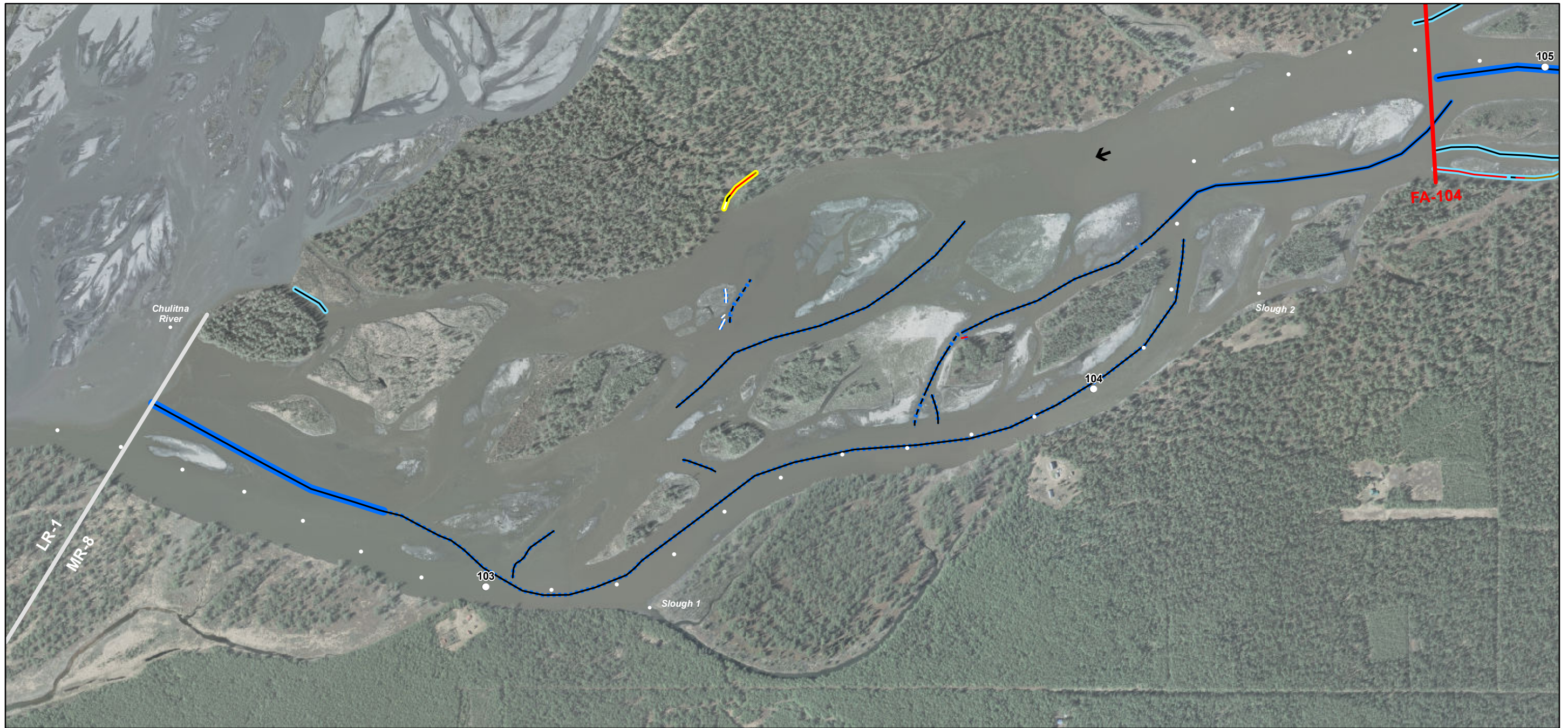
0 1,000 Feet

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 54 of 55





**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 55 of 55

Projection: AK SP Zone 4 NAD 1983  
 Date Created: 10/22/2015  
 Map Author: R2 - Joetta Zablotney  
 File: Map\_SCRB\_FA\_AQHAB\_MS12.mxd

