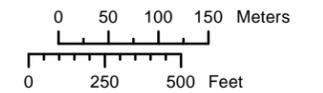
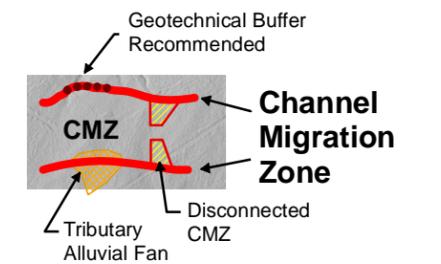


-  River Mile Marker
- CL_##_## Reach_ID
-  Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

Analyzed by: Mary Ann Reinhart, LG, LEG (GeoEngineers)
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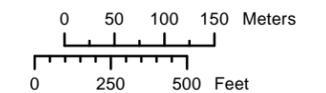
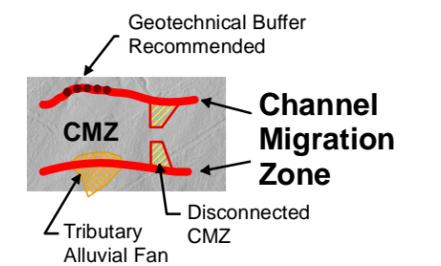
Channel Migration Assessment

*Prepared for the Shoreline Master Program Update
 Clallam County, Washington*

Calawah River, NF Map 1



-  River Mile Marker
- CL_##_## Reach_ID
-  Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
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 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

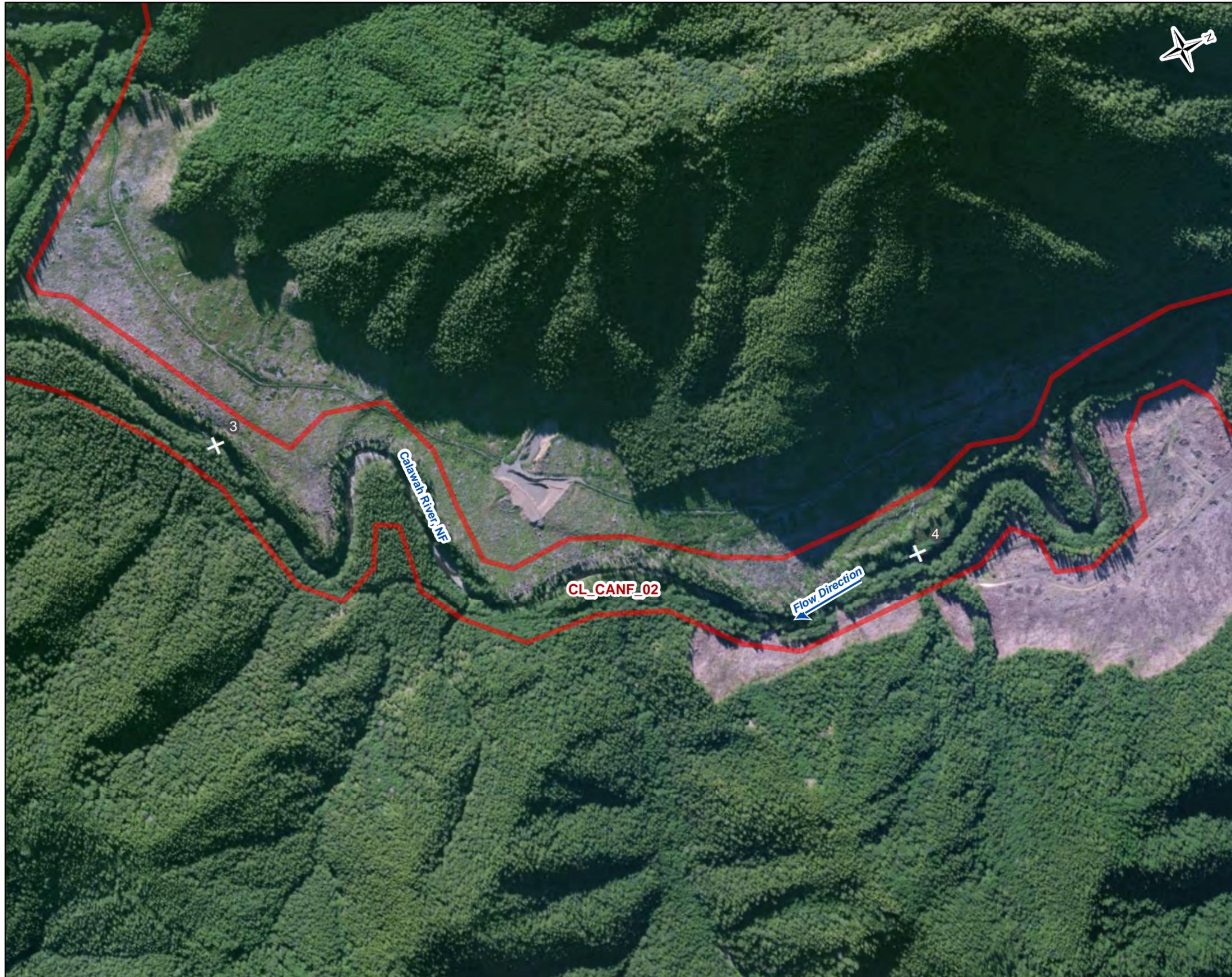
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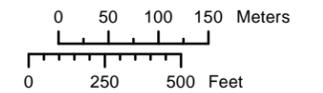
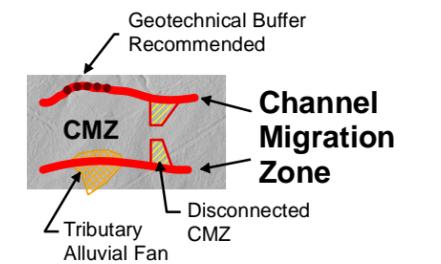
Channel Migration Assessment

*Prepared for the Shoreline Master Program Update
 Clallam County, Washington*

Calawah River, NF Map 2



-  River Mile Marker
- CL_###_### Reach_ID
-  Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

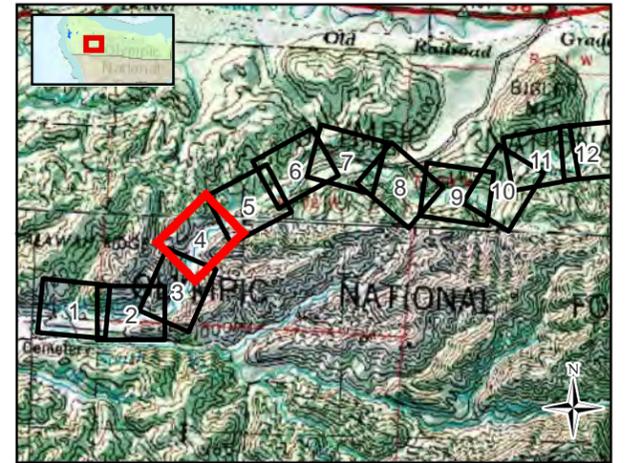
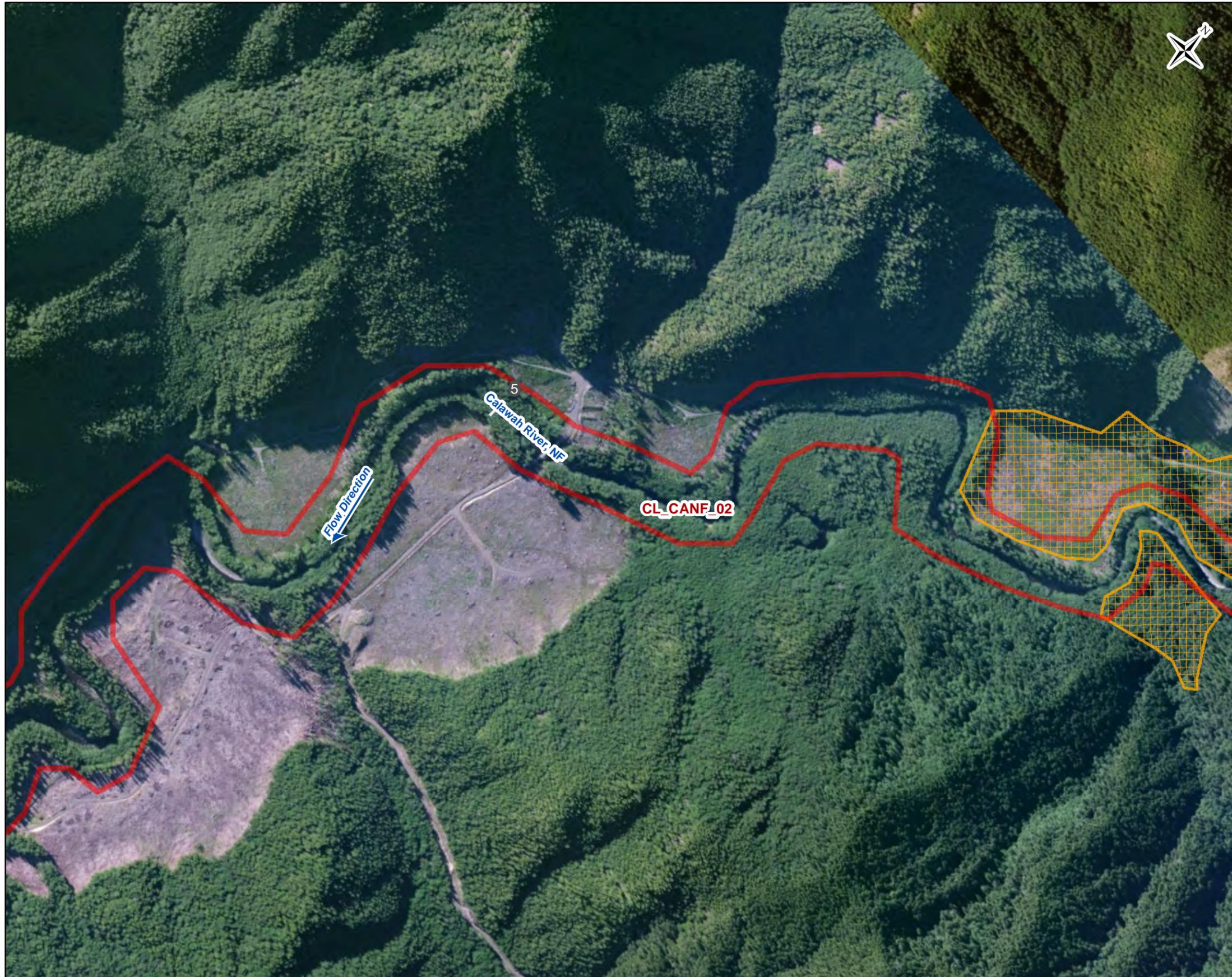
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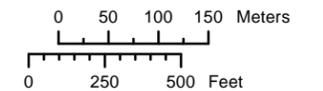
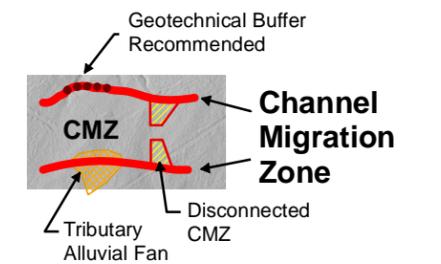
Channel Migration Assessment

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 Clallam County, Washington*

Calawah River, NF Map 3



-  River Mile Marker
- CL_##_## Reach_ID
-  Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

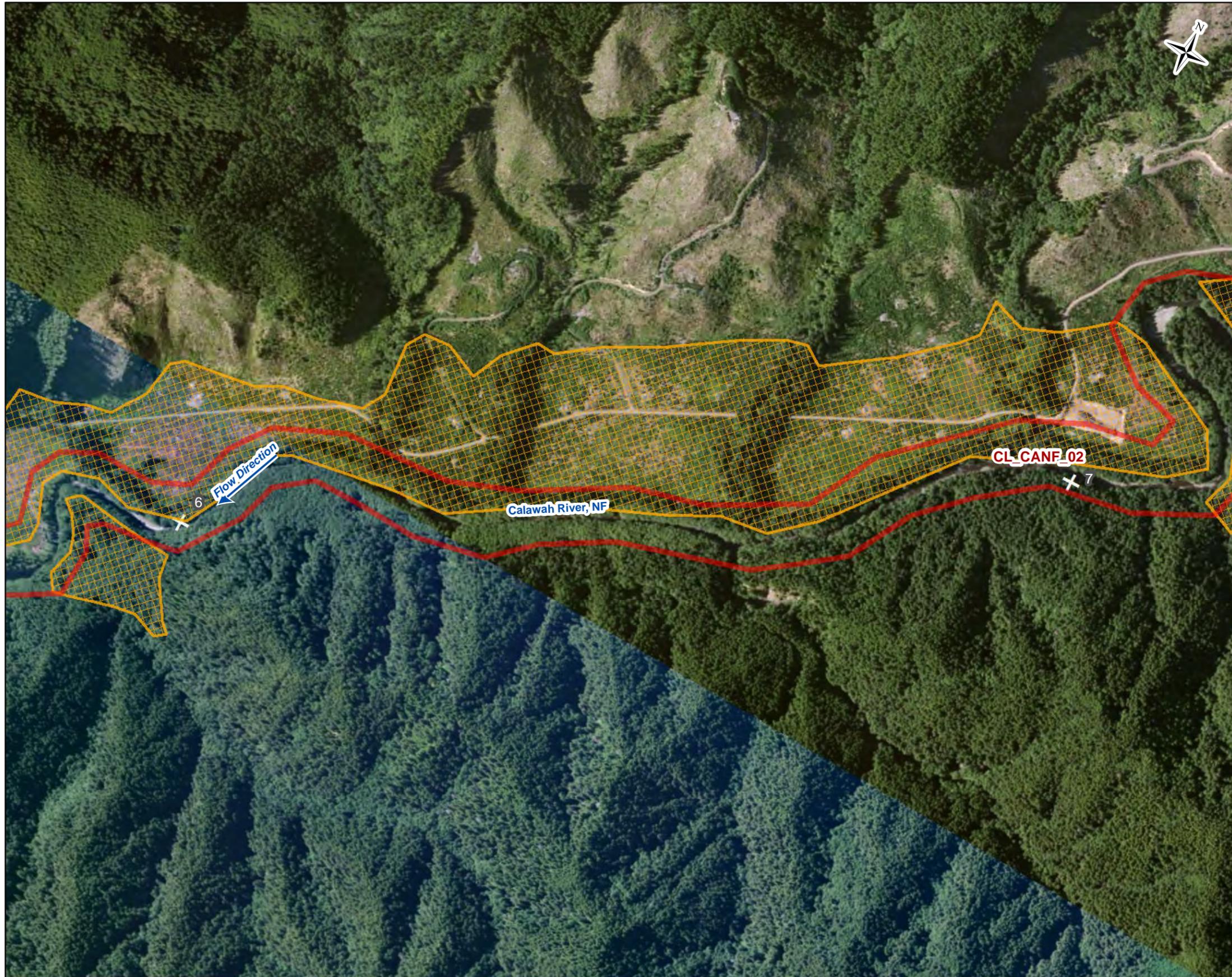
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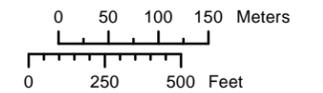
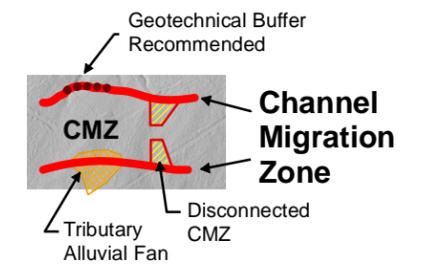
Channel Migration Assessment

*Prepared for the Shoreline Master Program Update
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Calawah River, NF Map 4



-  River Mile Marker
- CL_##_##** Reach_ID
-  Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

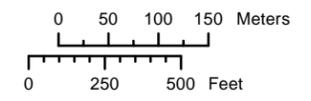
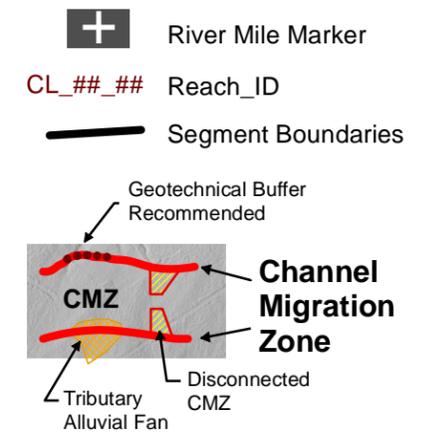
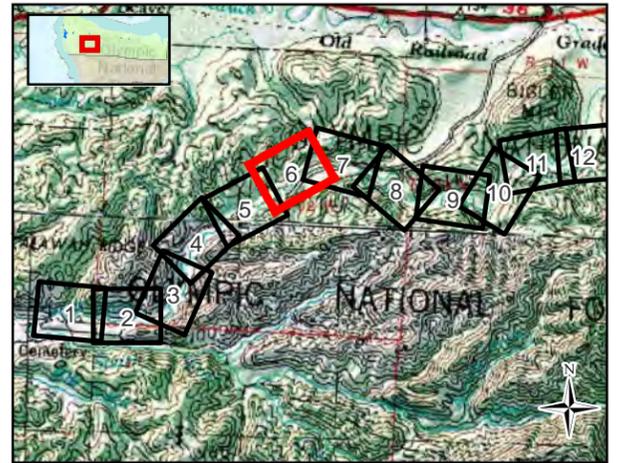
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Calawah River, NF Map 5



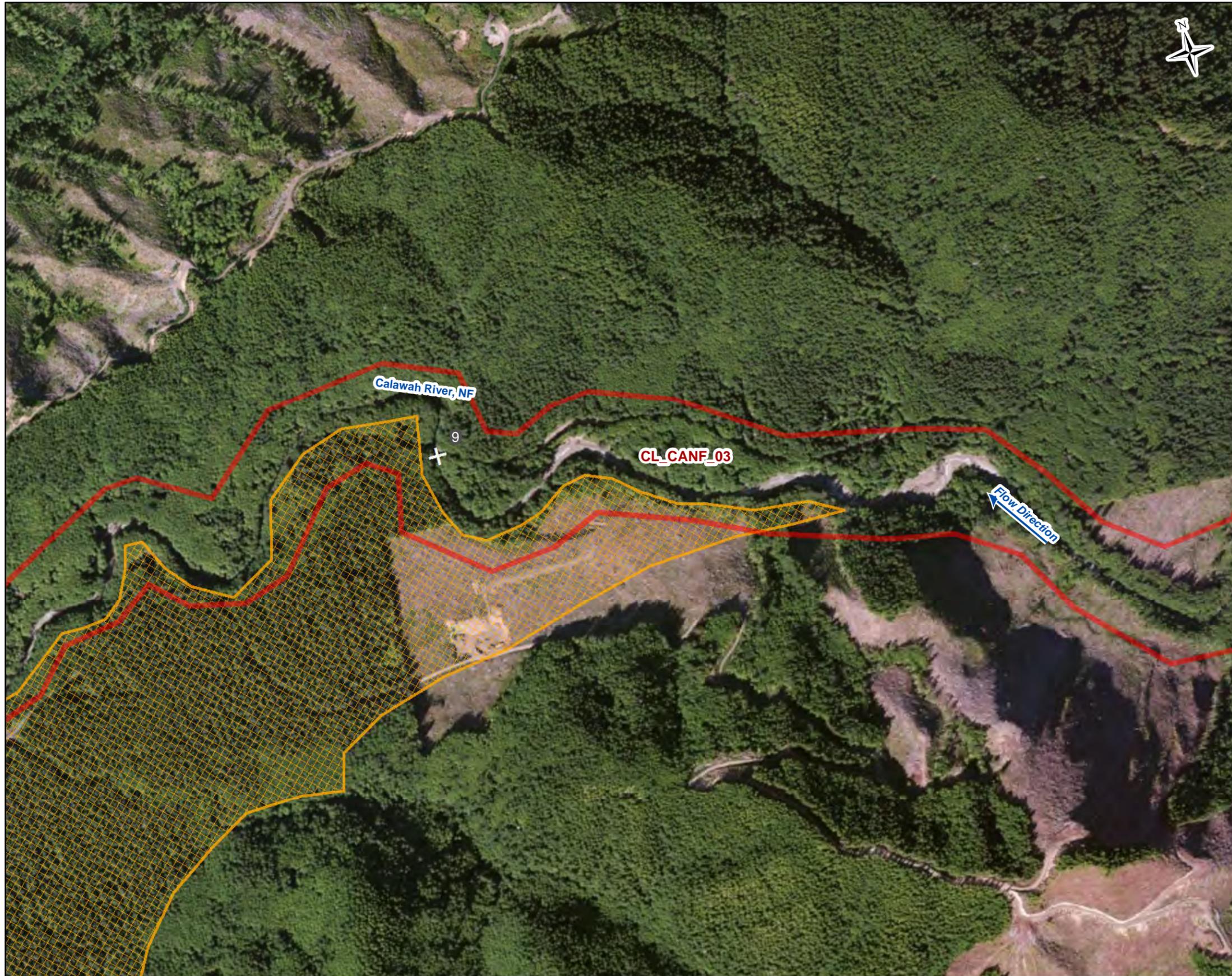
2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
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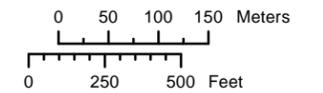
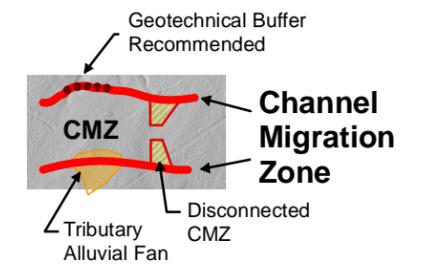


Channel Migration Assessment
*Prepared for the Shoreline Master Program Update
 Clallam County, Washington*

Calawah River, NF Map 6



-  River Mile Marker
- CL_##_##** Reach_ID
-  Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

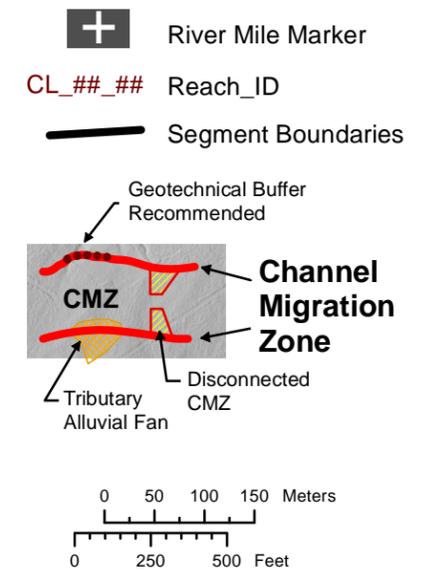
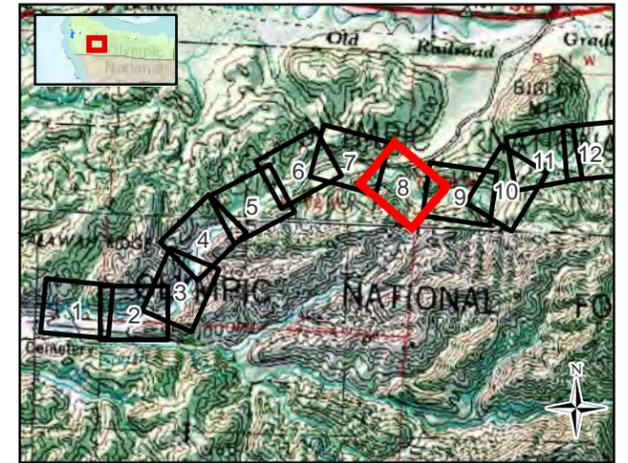
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Calawah River, NF Map 7



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

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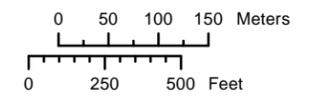
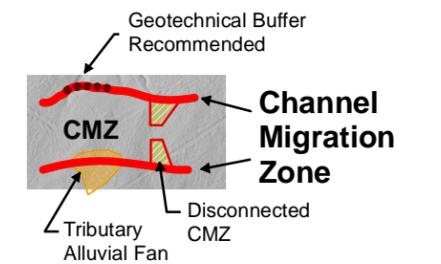
Channel Migration Assessment

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Calawah River, NF Map 8



-  River Mile Marker
- CL_##_##** Reach_ID
-  Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

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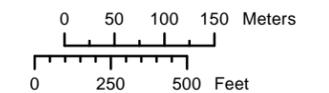
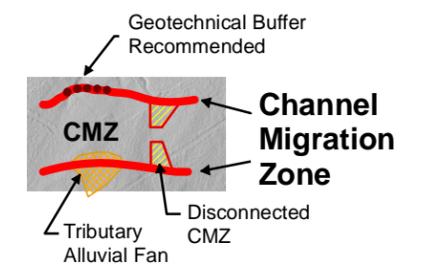
Channel Migration Assessment

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 Clallam County, Washington*

Calawah River, NF Map 9



- River Mile Marker
- CL_##_##** Reach_ID
- Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

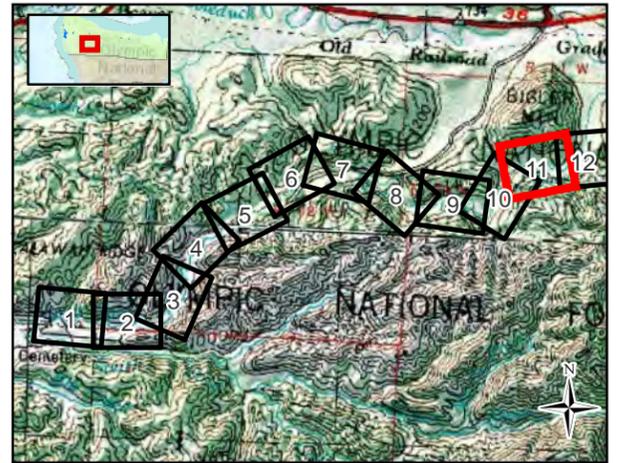
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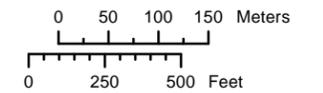
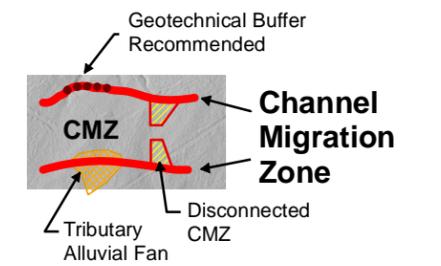
Channel Migration Assessment

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 Clallam County, Washington*

Calawah River, NF Map 10



-  River Mile Marker
- CL_##_## Reach_ID
-  Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

Analyzed by: Mary Ann Reinhart, LG, LEG (GeoEngineers)
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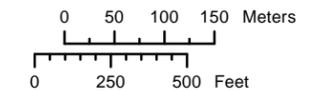
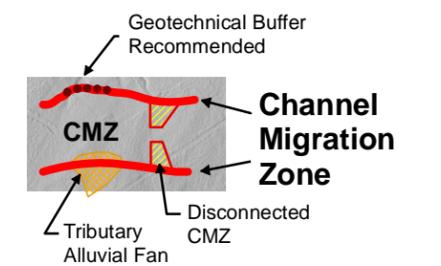
Channel Migration Assessment

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 Clallam County, Washington*

Calawah River, NF Map 11



-  River Mile Marker
- CL_##_## Reach_ID
-  Segment Boundaries



2010 aerial from Microsoft via ESRI World Imagery
 1:24,000 USGS DRG
 River miles calculated from NHD stream alignment (USGS)
 Roads from TIGER (US Census Bureau)
 Coordinate System: NAD83 State Plane Washington North

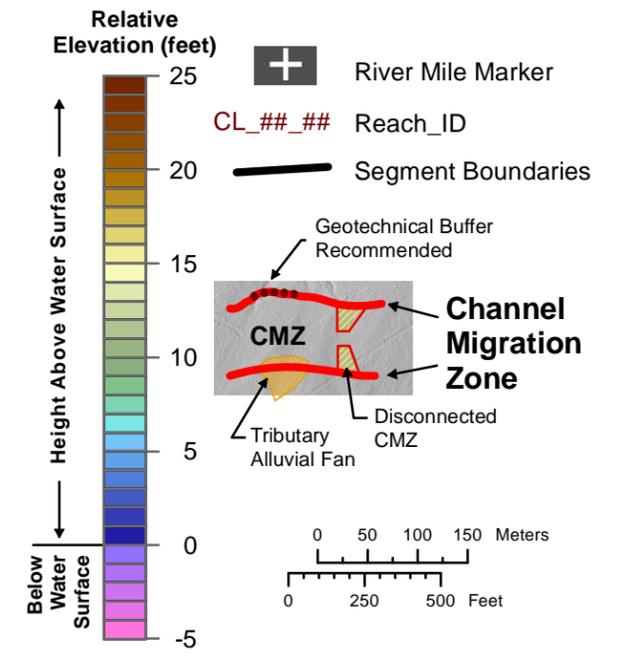
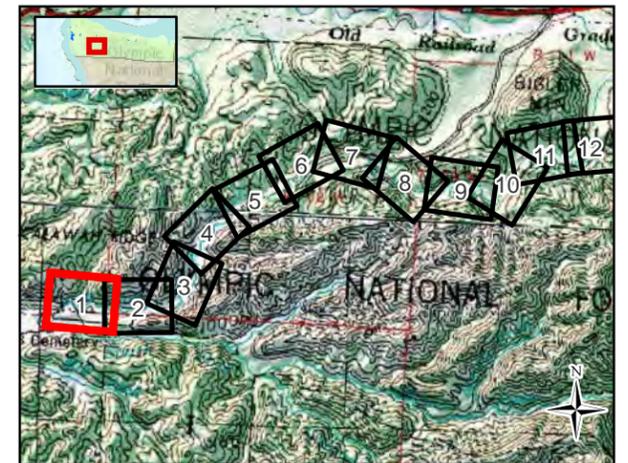
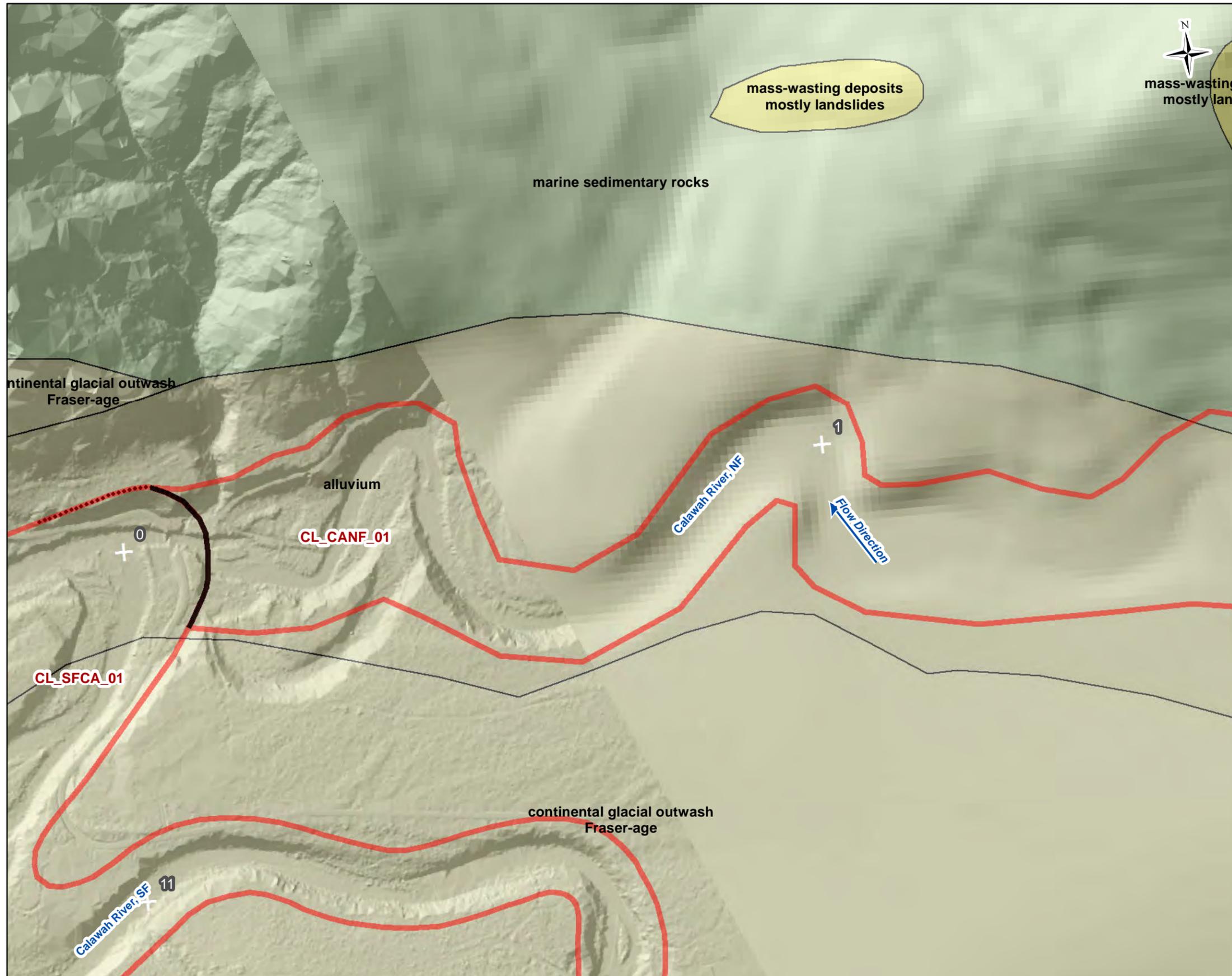
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 Clallam County, Washington*

Calawah River, NF Map 12

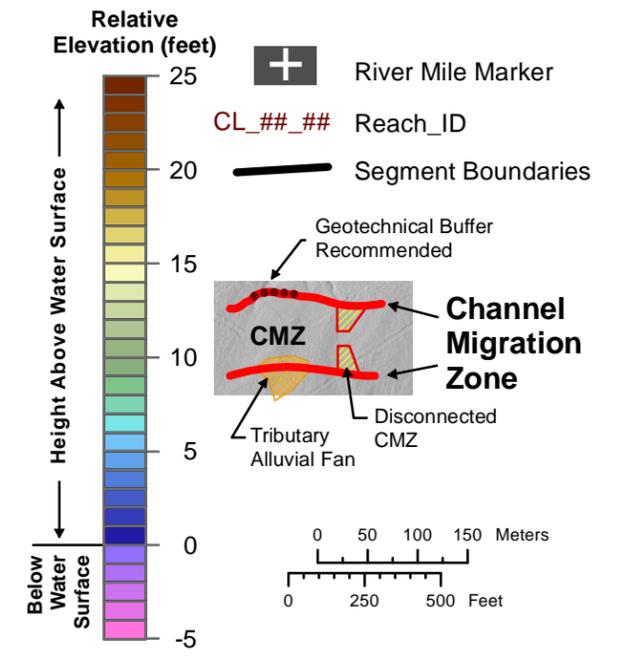
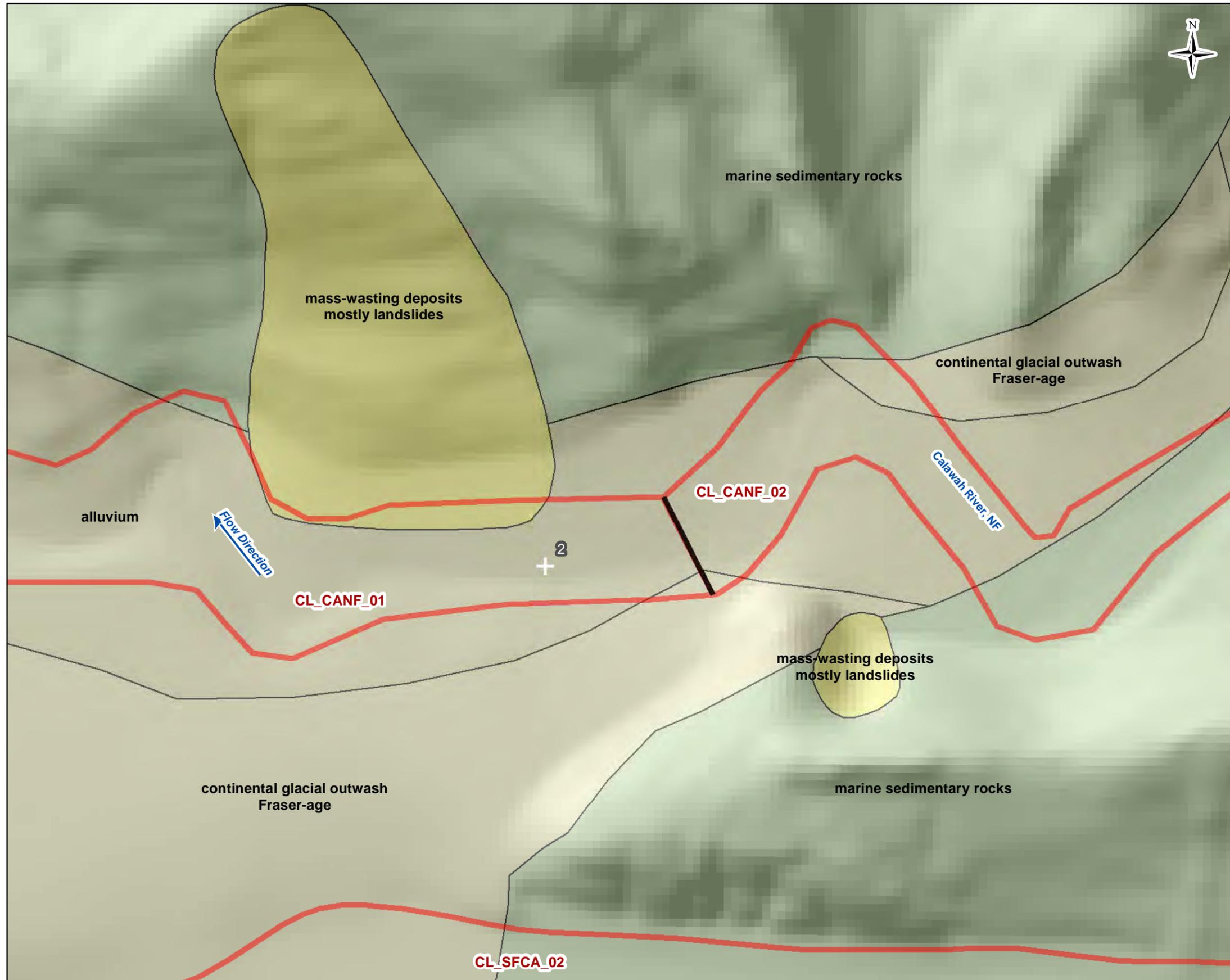


2002 LIDAR topography (Puget Sound LIDAR Consortium).
 10m DEM USGS
 1:24,000 USGS DRG
 WA State Dept. of Nat. Resources 1:100,000 Geology
 River miles calculated from NHD stream alignment (USGS)
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Channel Migration Assessment
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Calawah River, NF Map 1

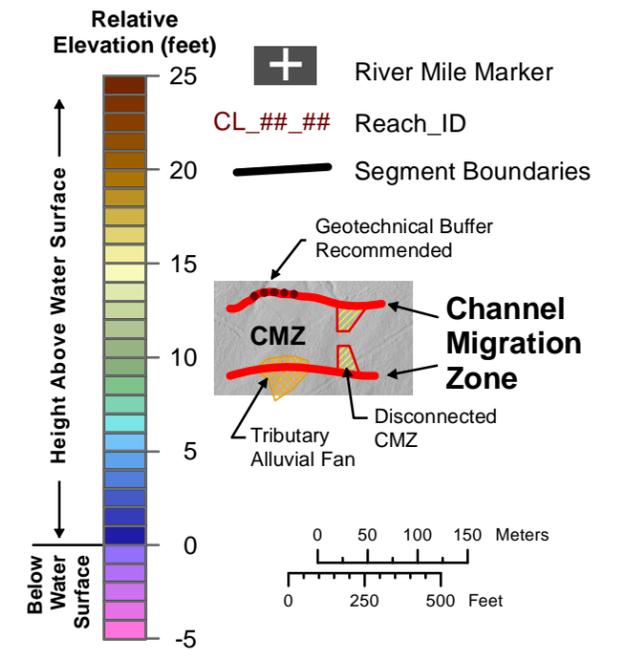


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Channel Migration Assessment
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Calawah River, NF Map 2

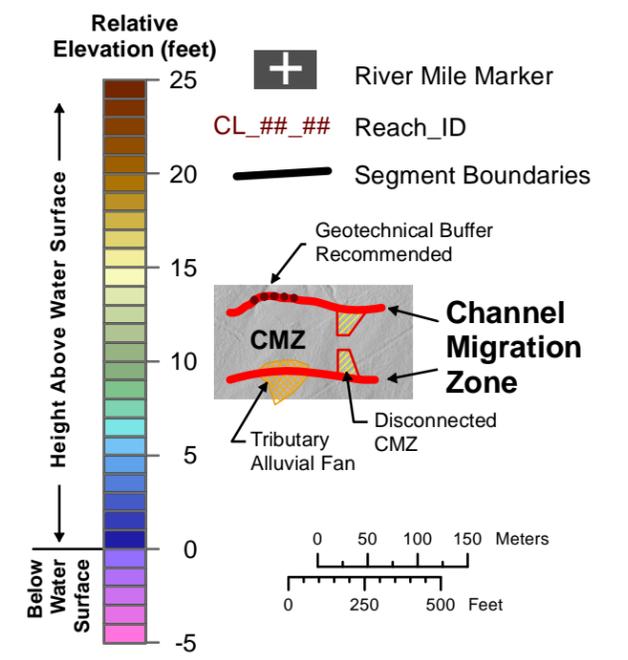
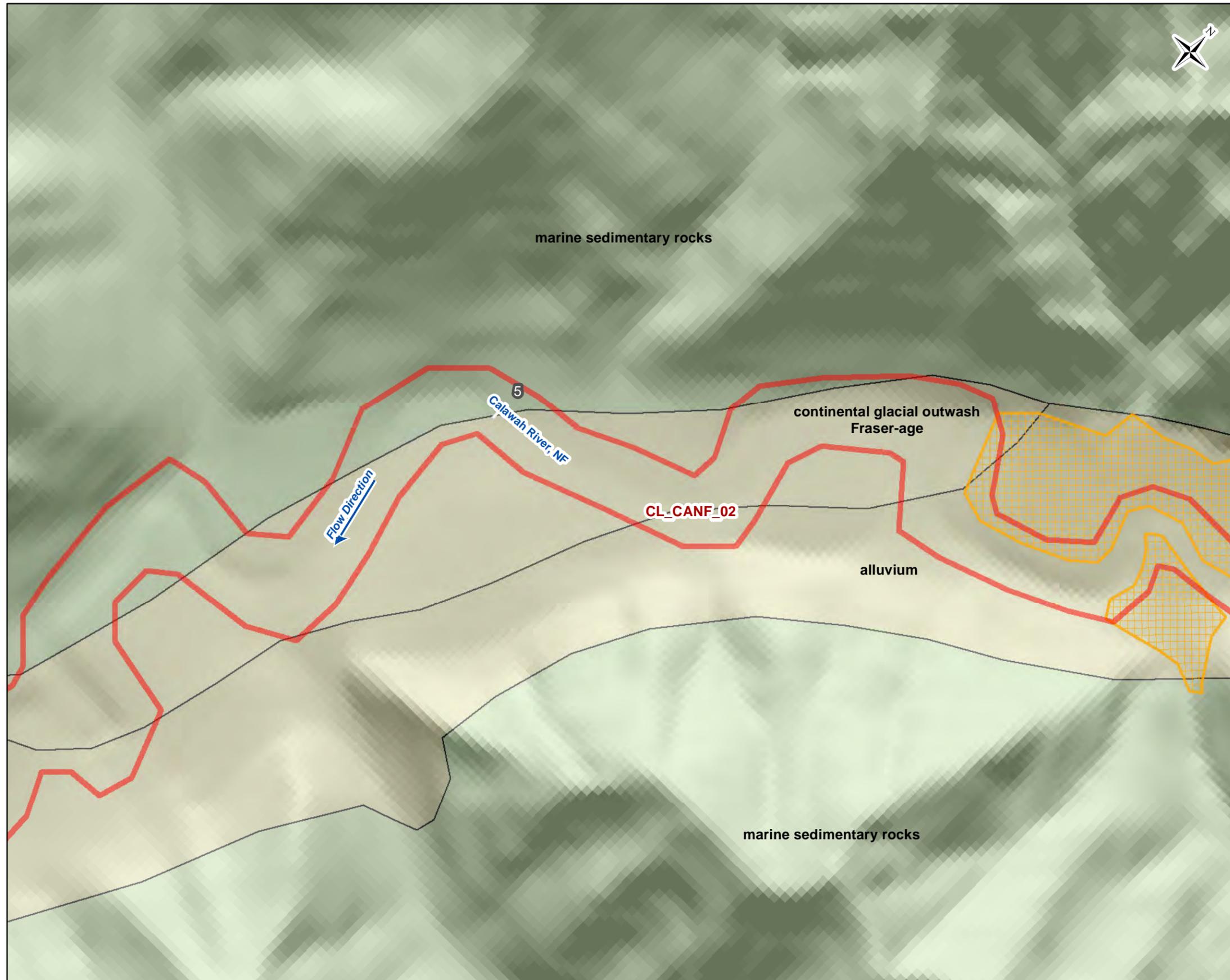


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Calawah River, NF Map 3

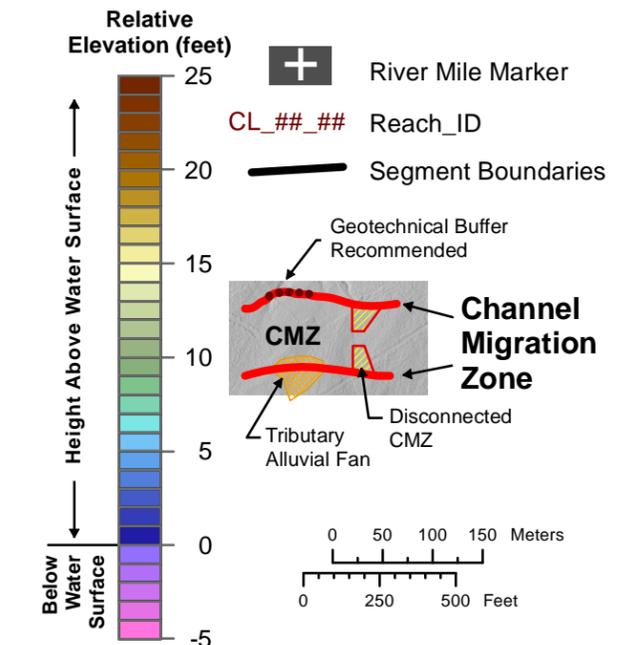
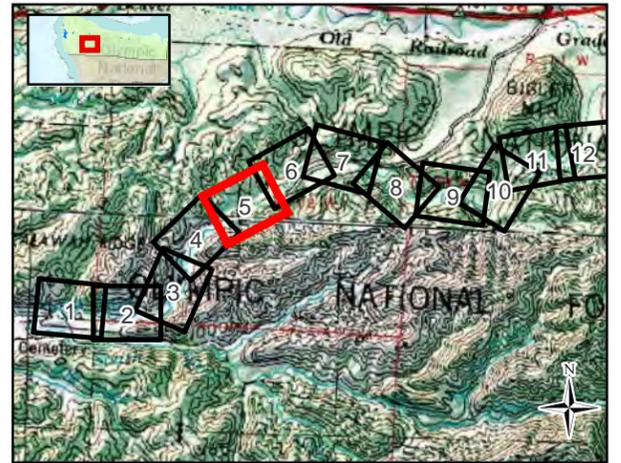
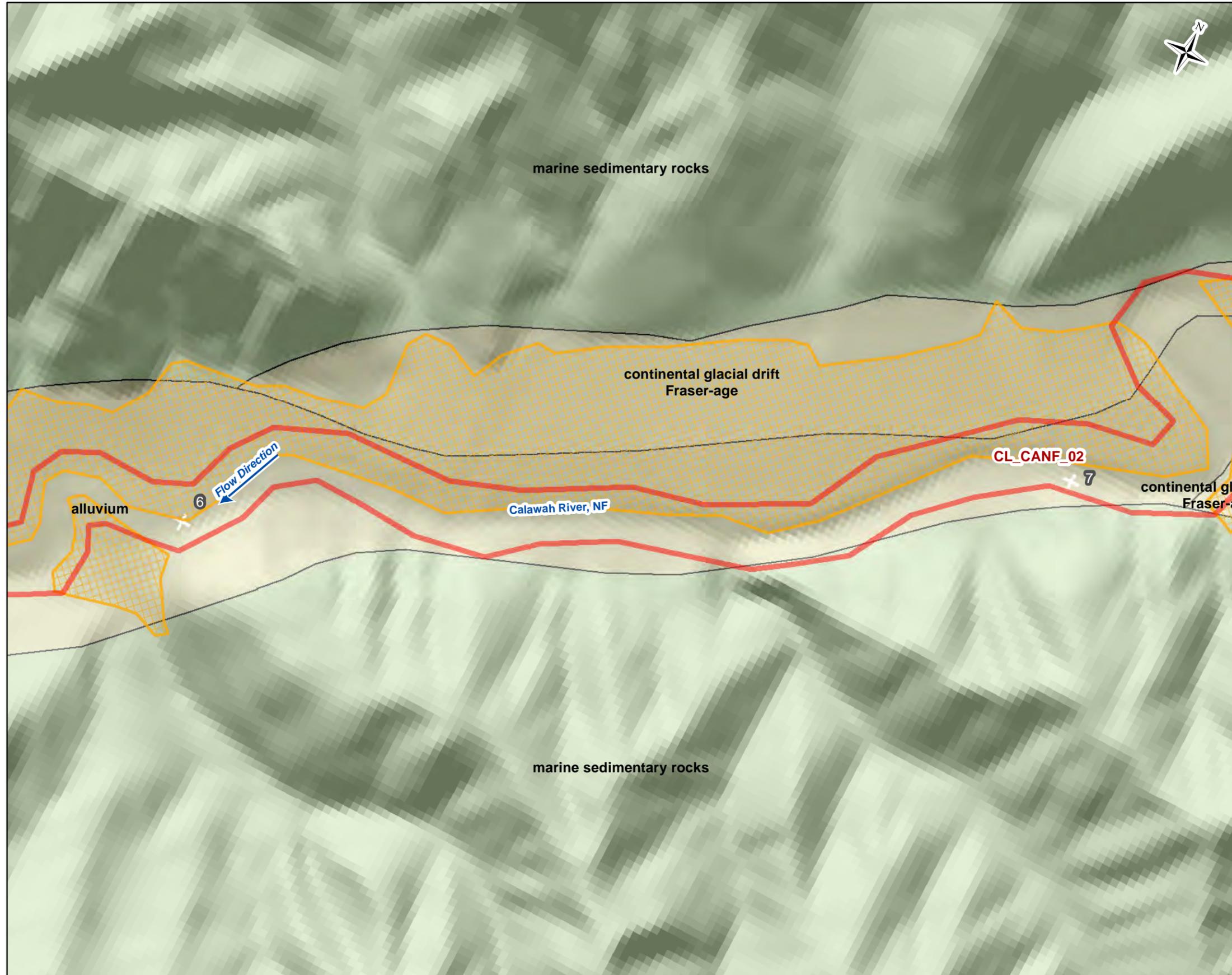


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Calawah River, NF Map 4

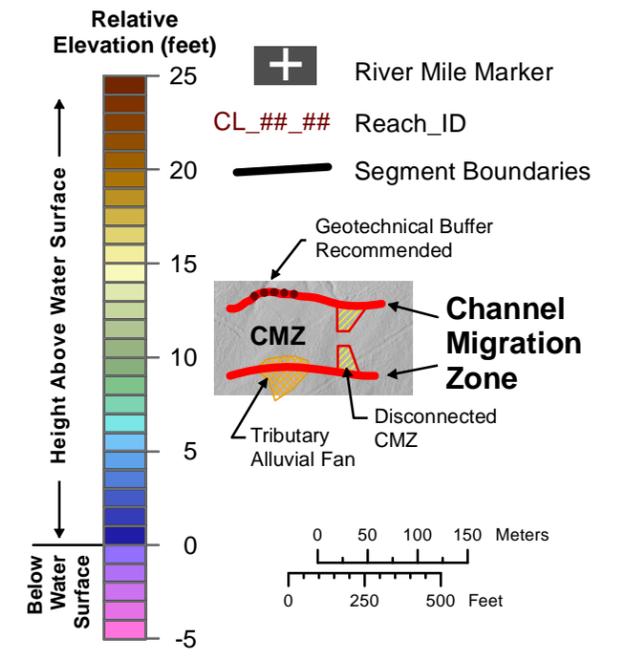
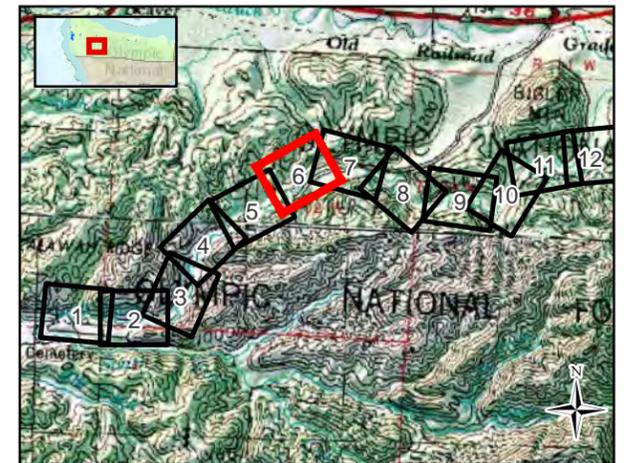
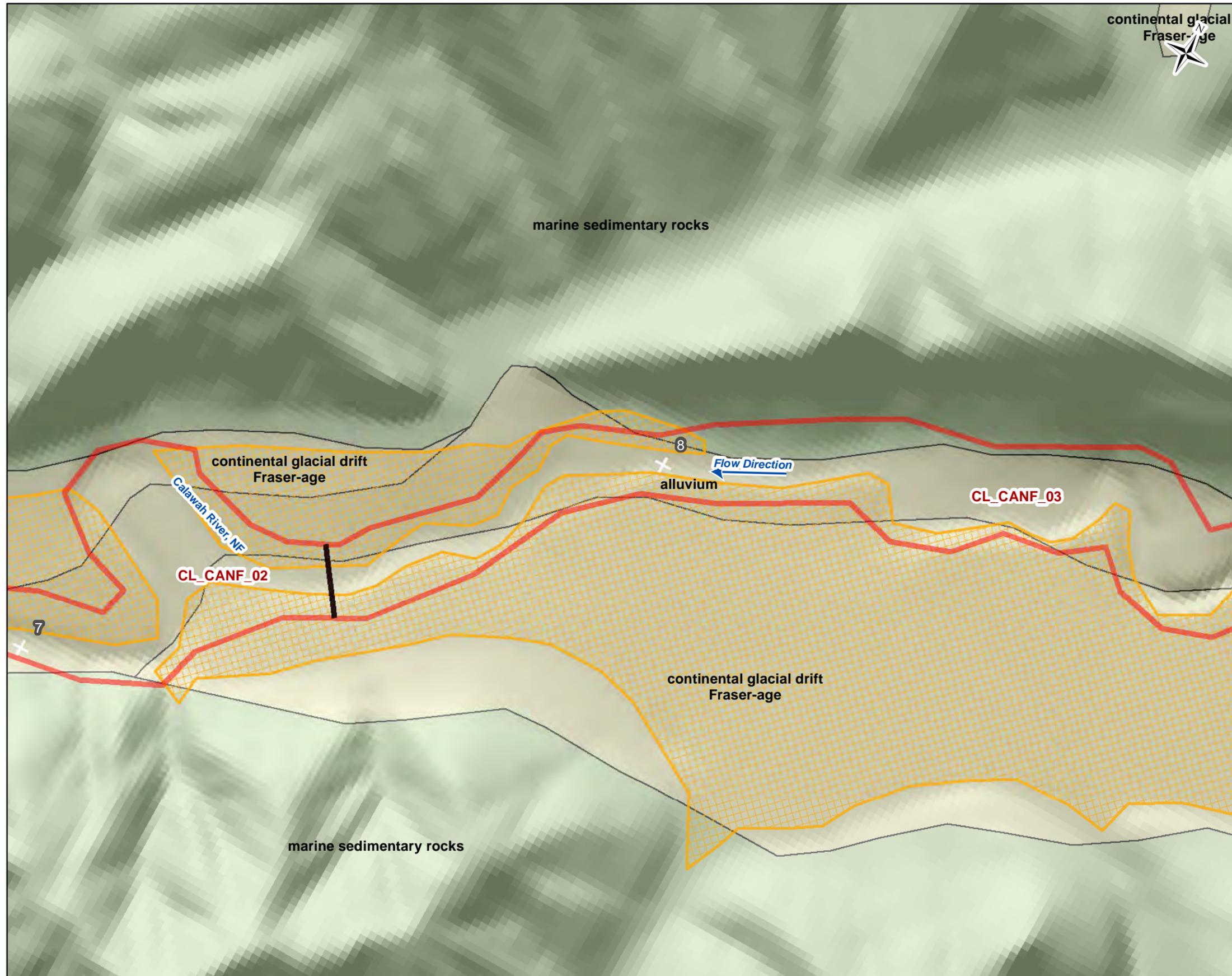


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Calawah River, NF Map 5

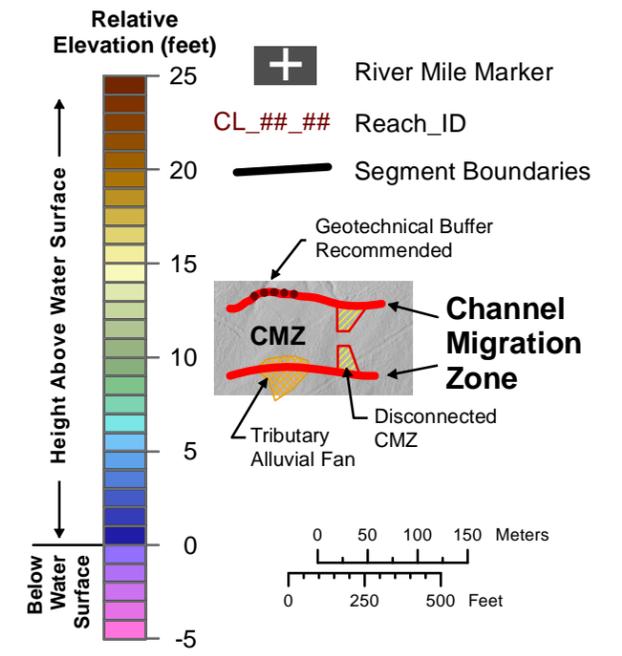
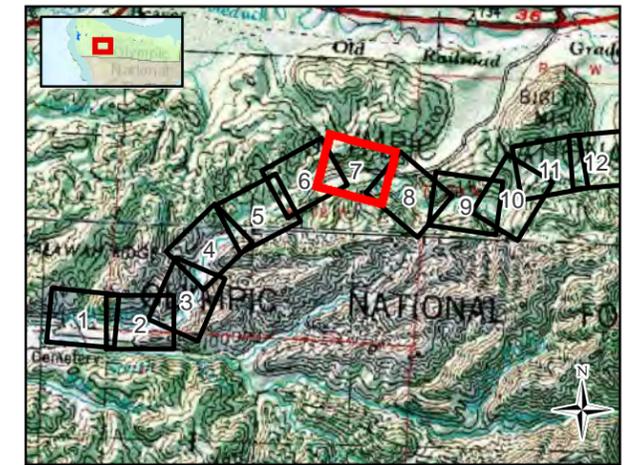


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Calawah River, NF Map 6

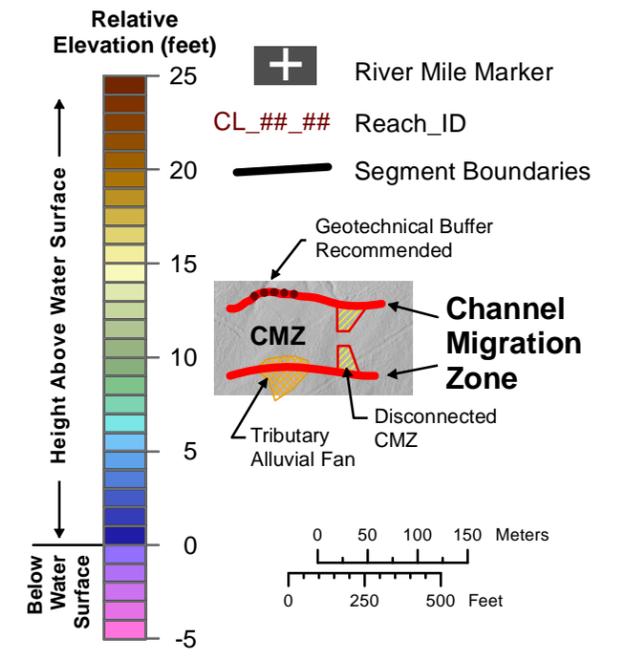
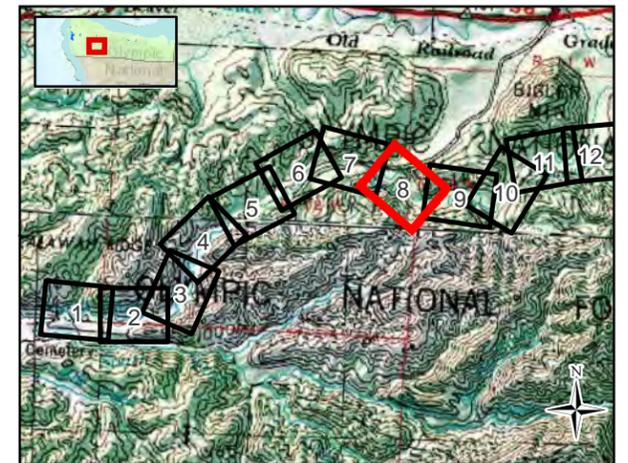
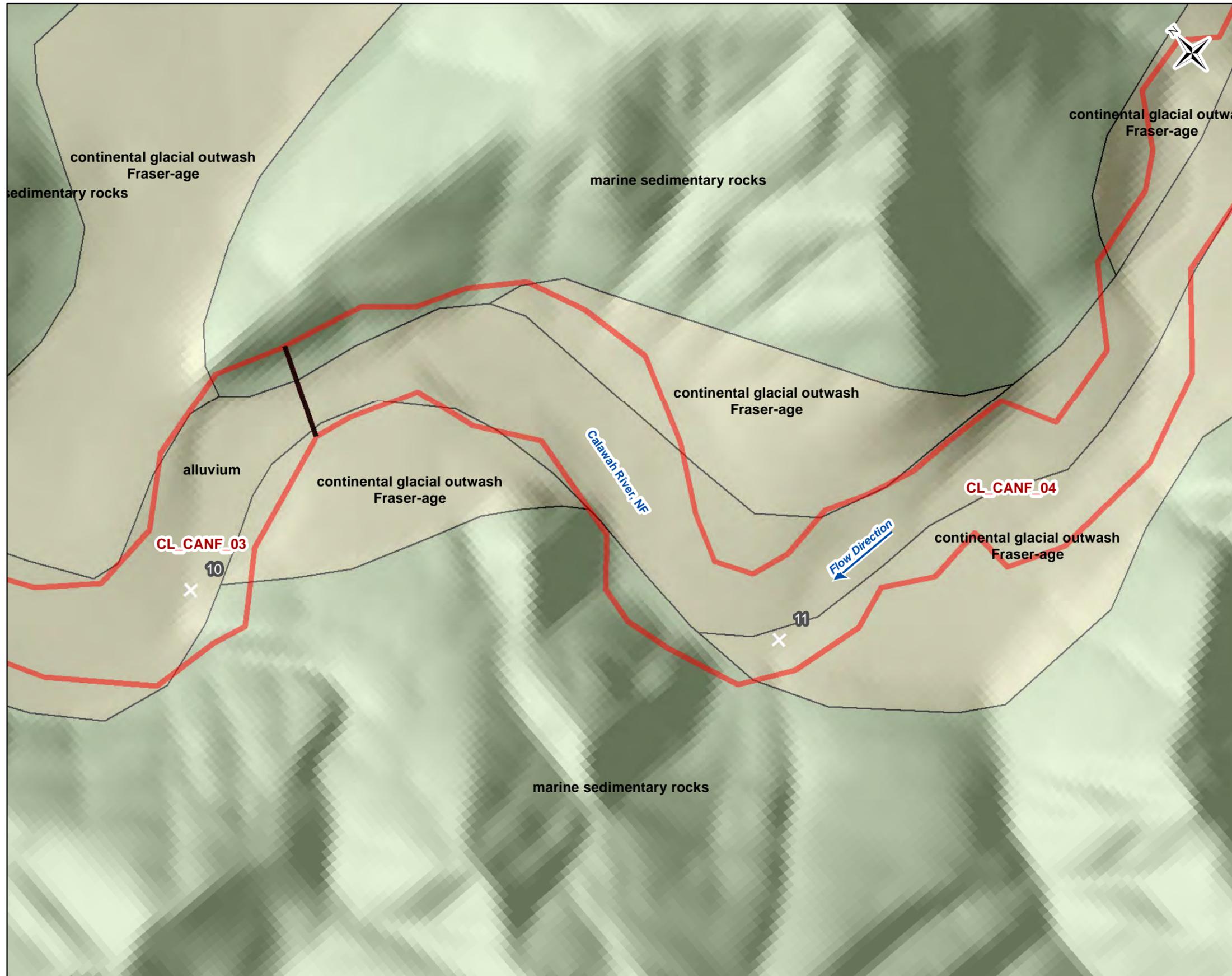


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 Clallam County, Washington

Calawah River, NF Map 7

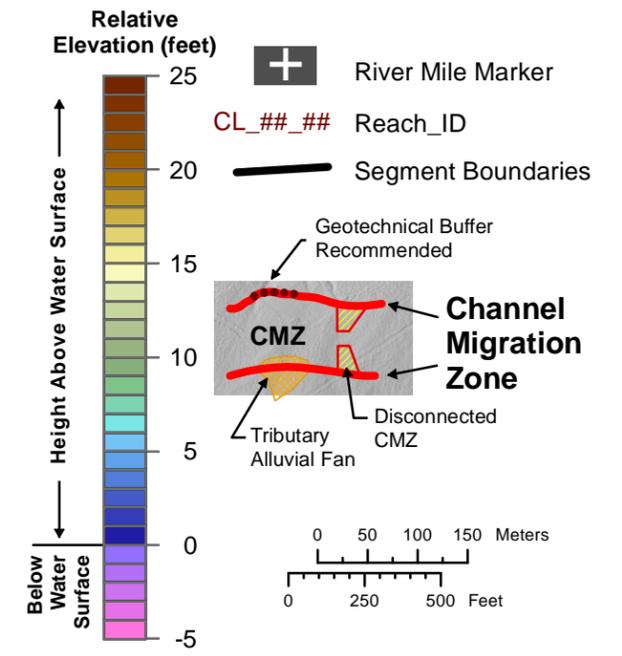
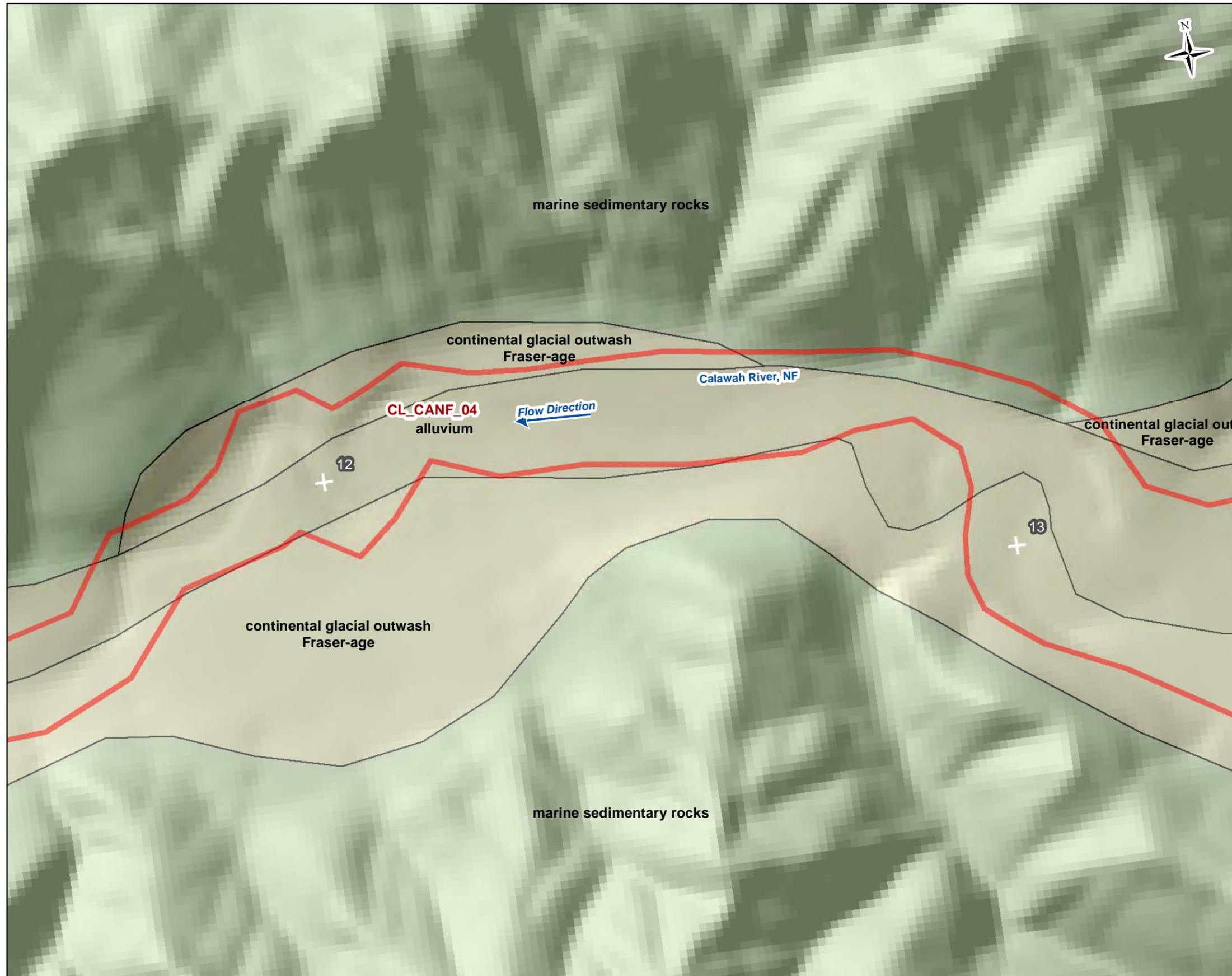


2002 LIDAR topography (Puget Sound LIDAR Consortium).
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 WA State Dept. of Nat. Resources 1:100,000 Geology
 River miles calculated from NHD stream alignment (USGS)
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Calawah River, NF Map 8

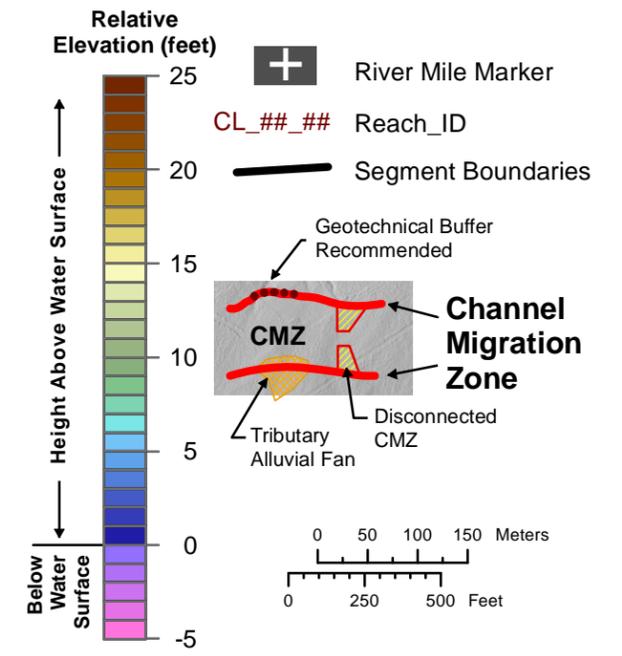
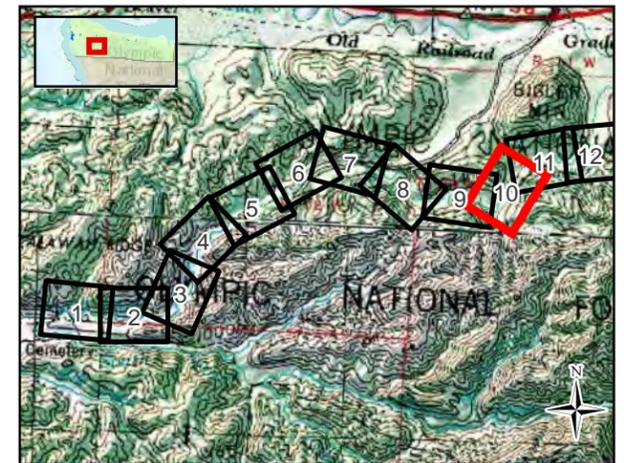
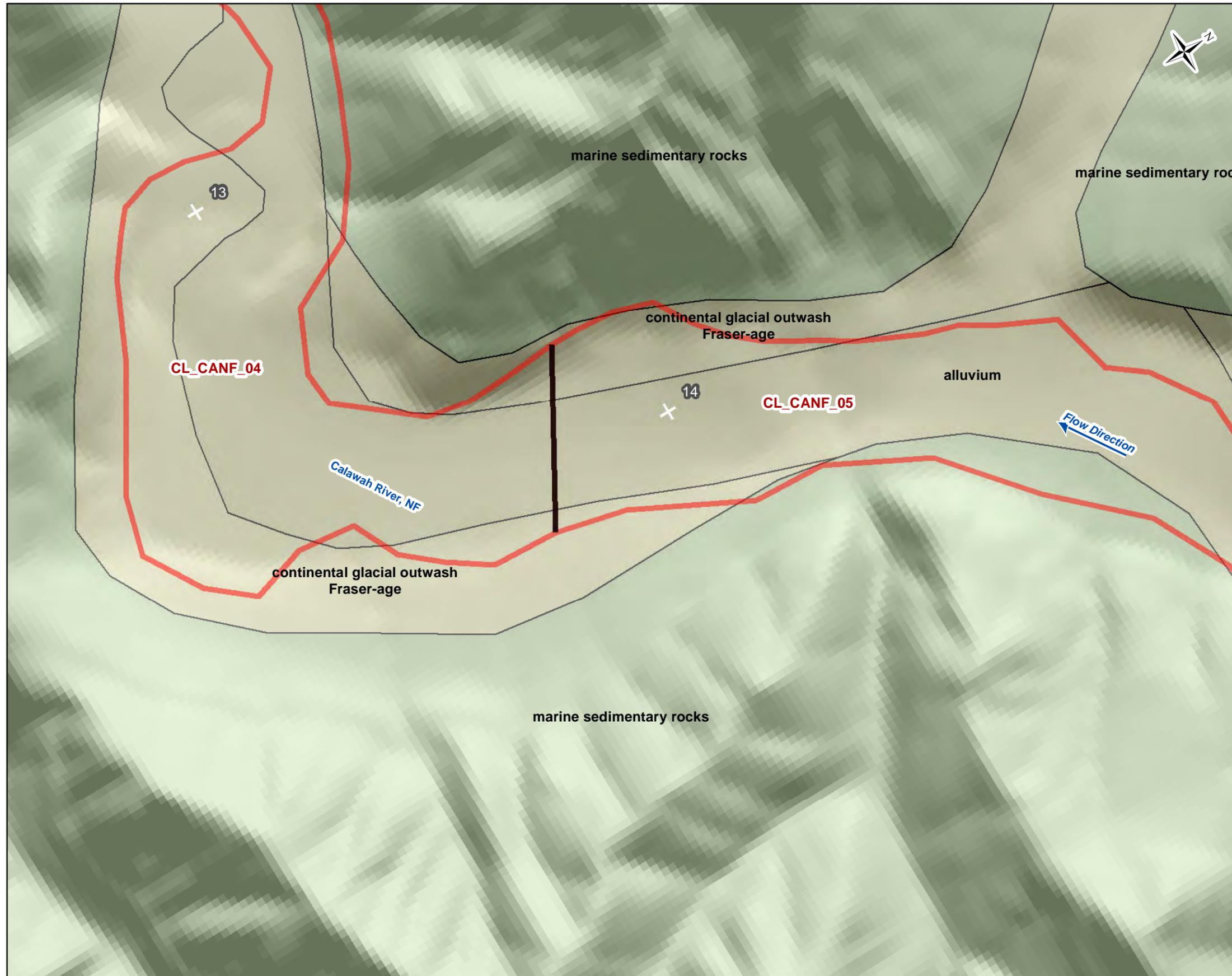


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Calawah River, NF Map 9

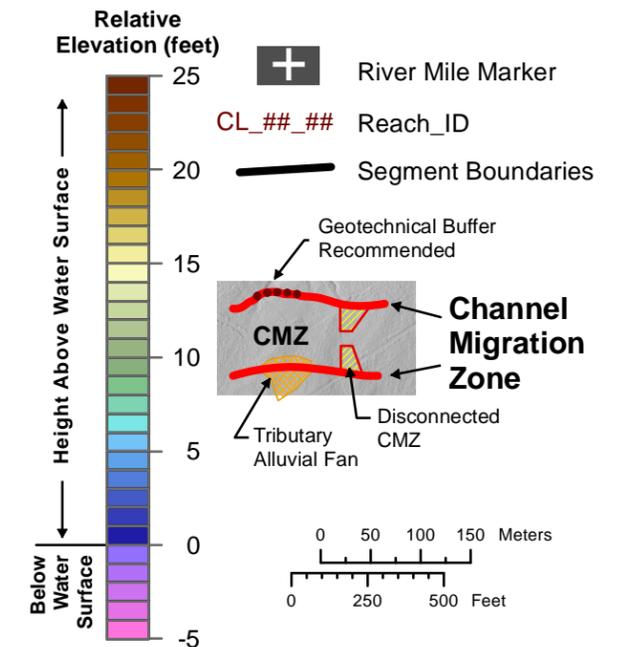
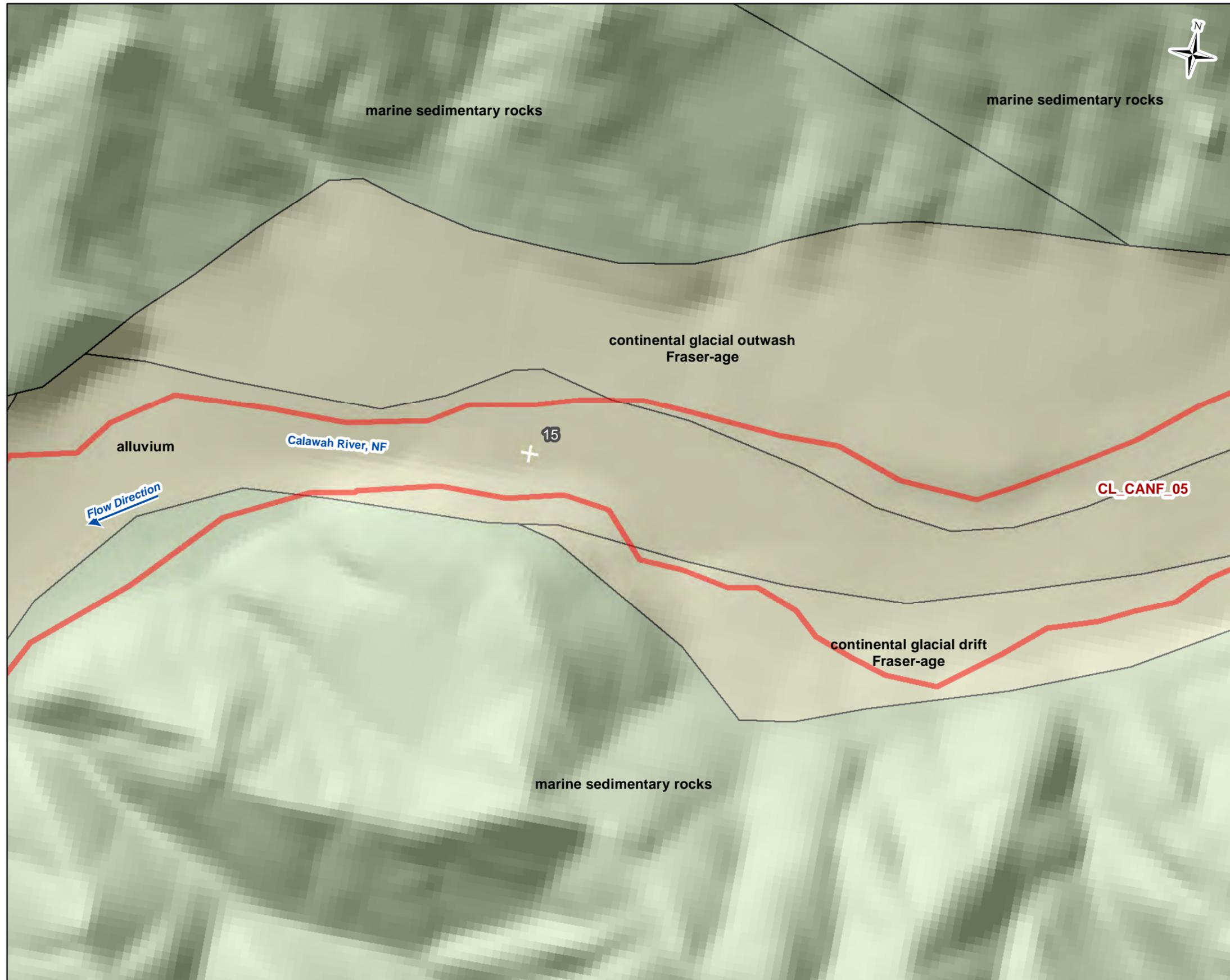


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Calawah River, NF Map 10



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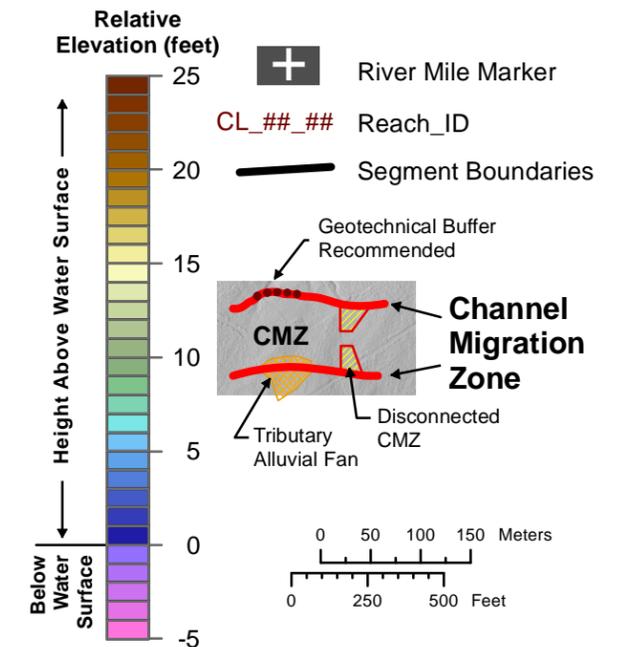
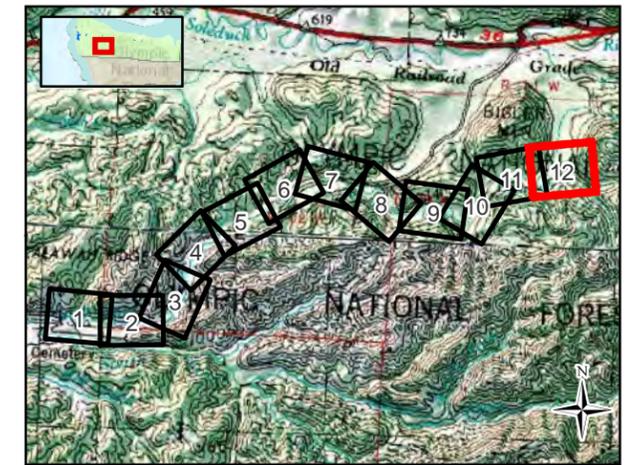
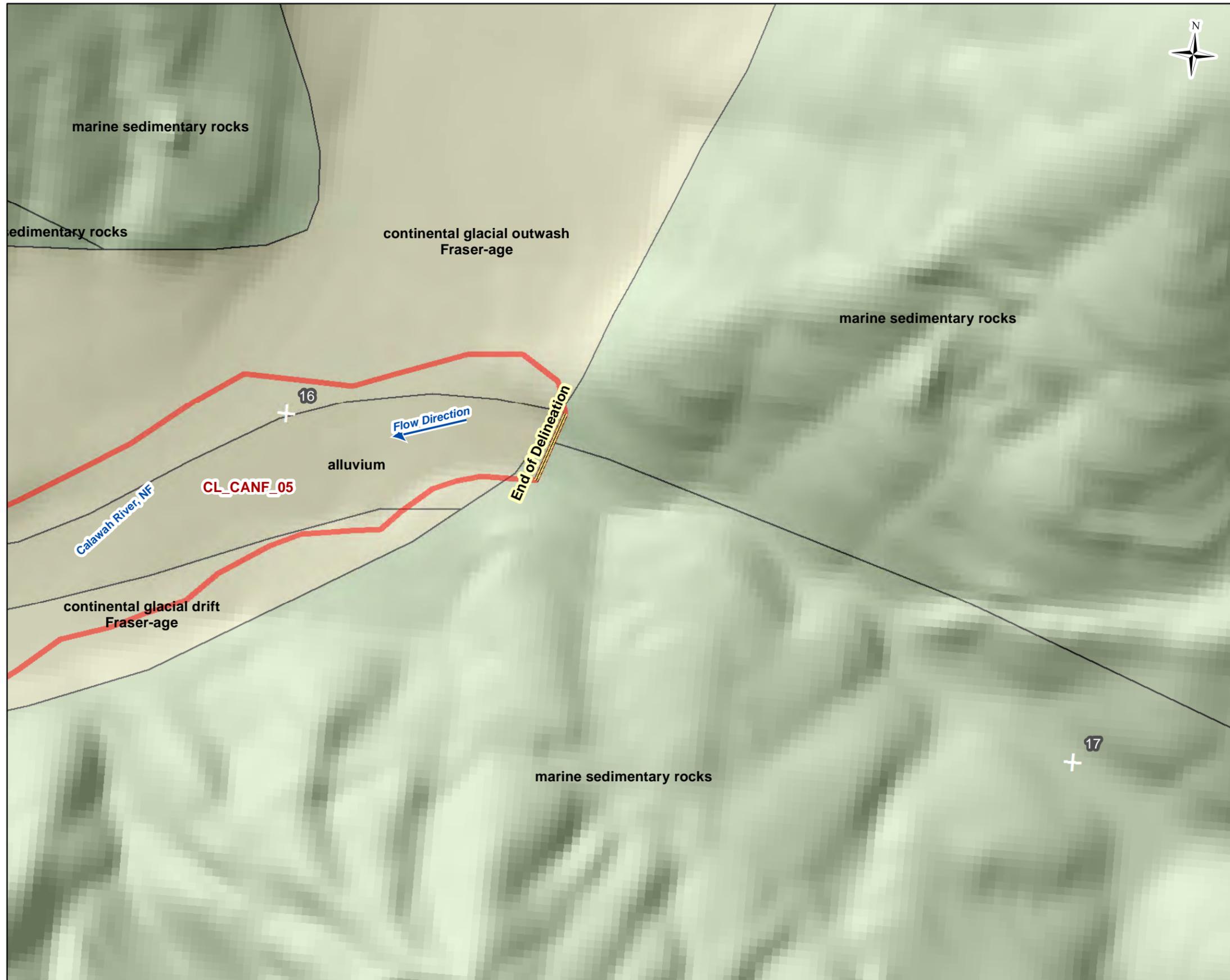
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Calawah River, NF Map 11



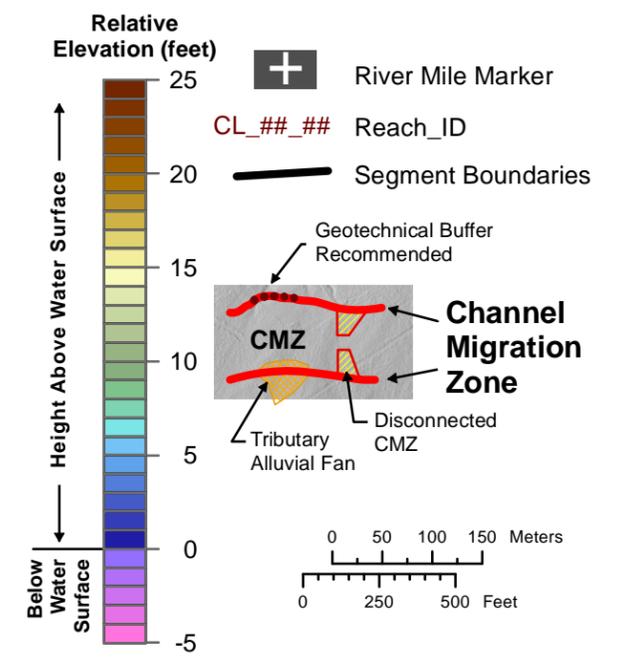
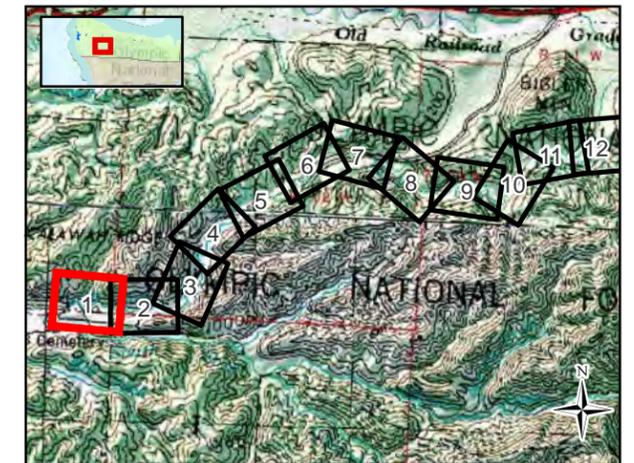
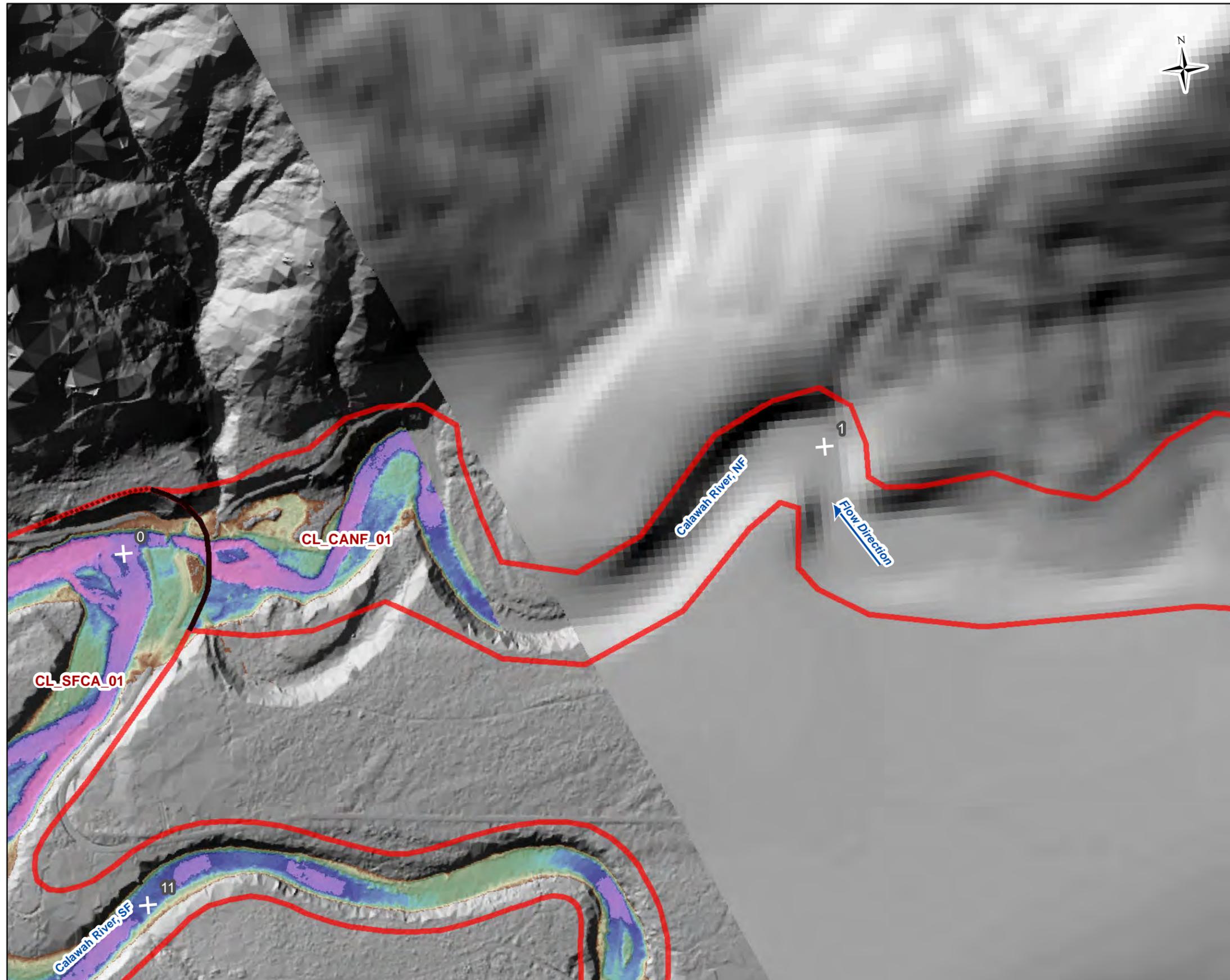
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Calawah River, NF Map 12

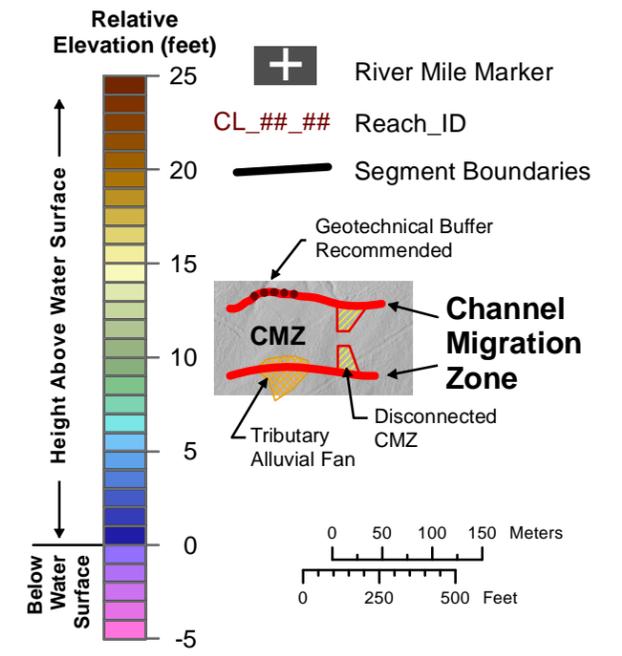
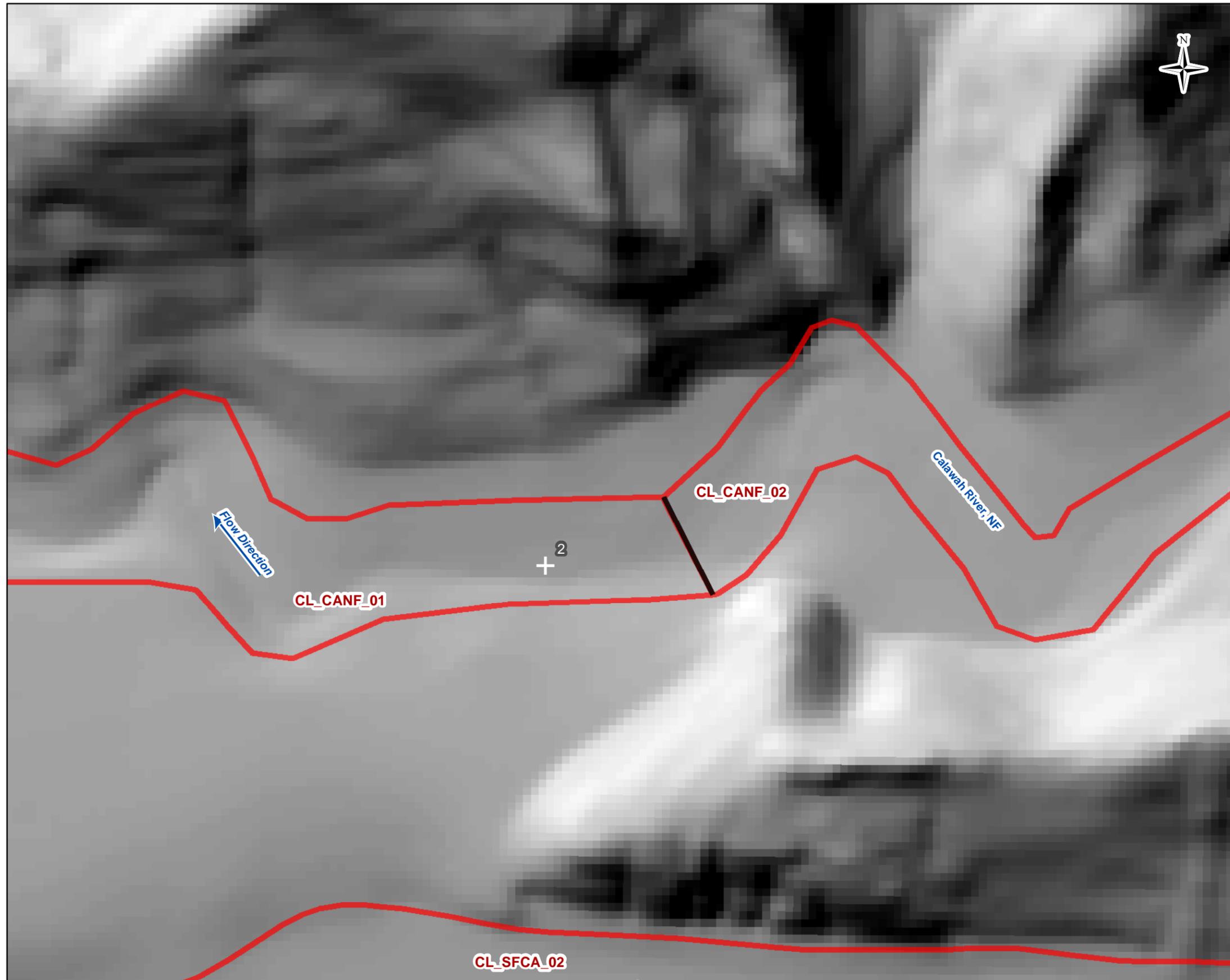


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Calawah River, NF Map 1

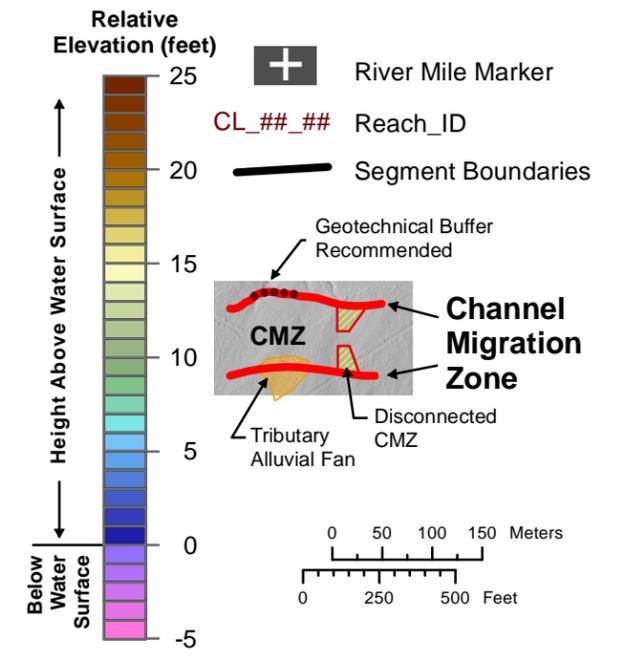
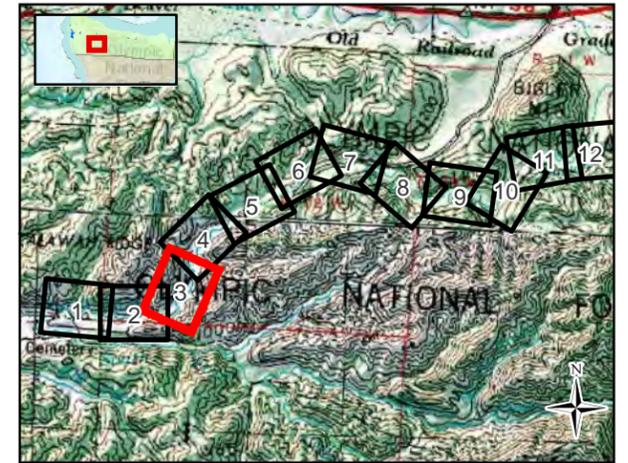
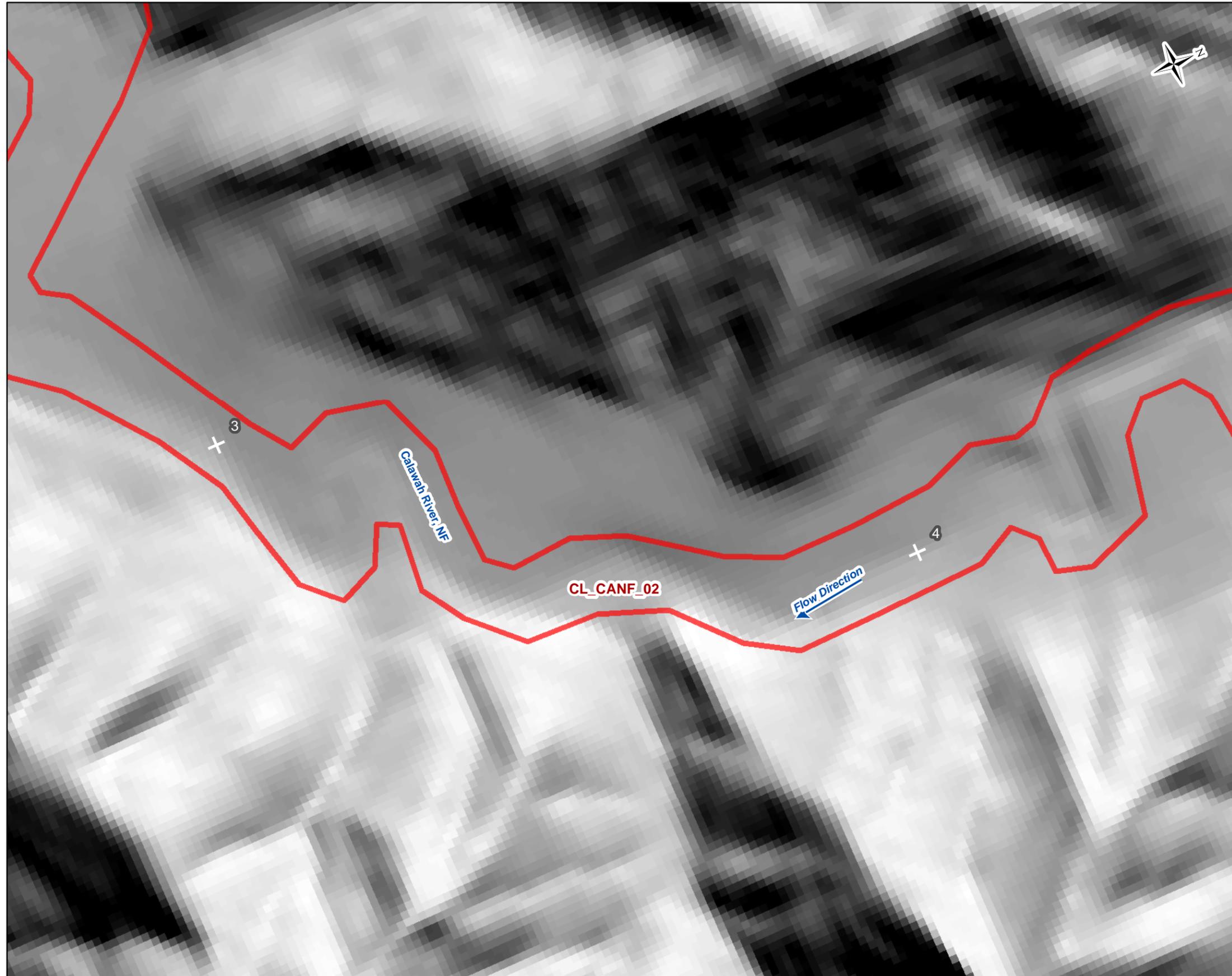


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Calawah River, NF Map 2

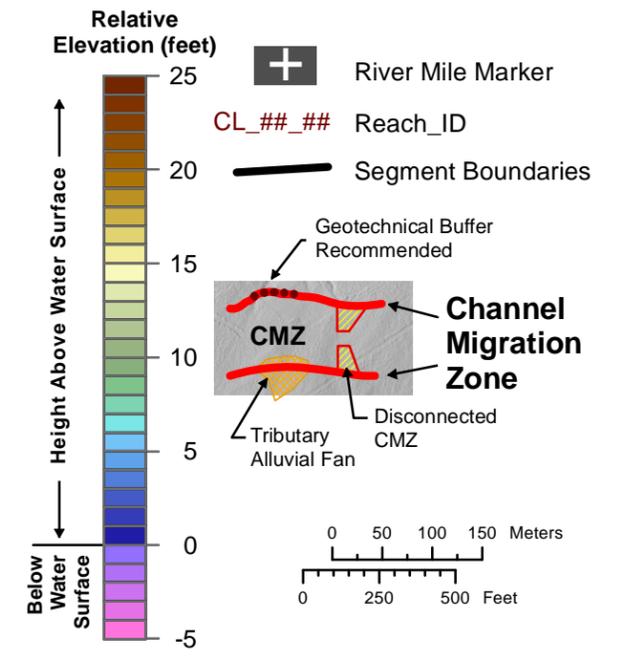
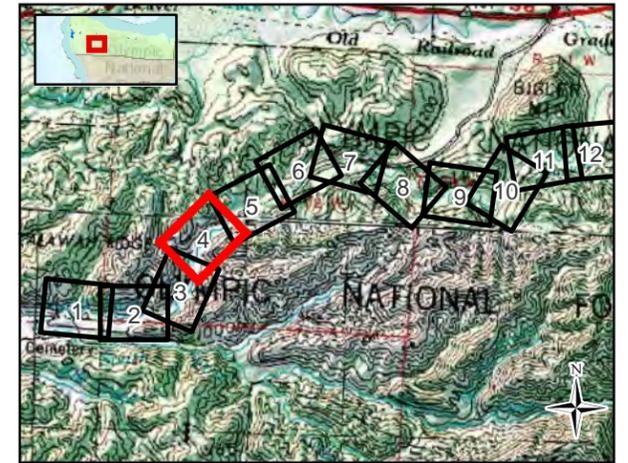
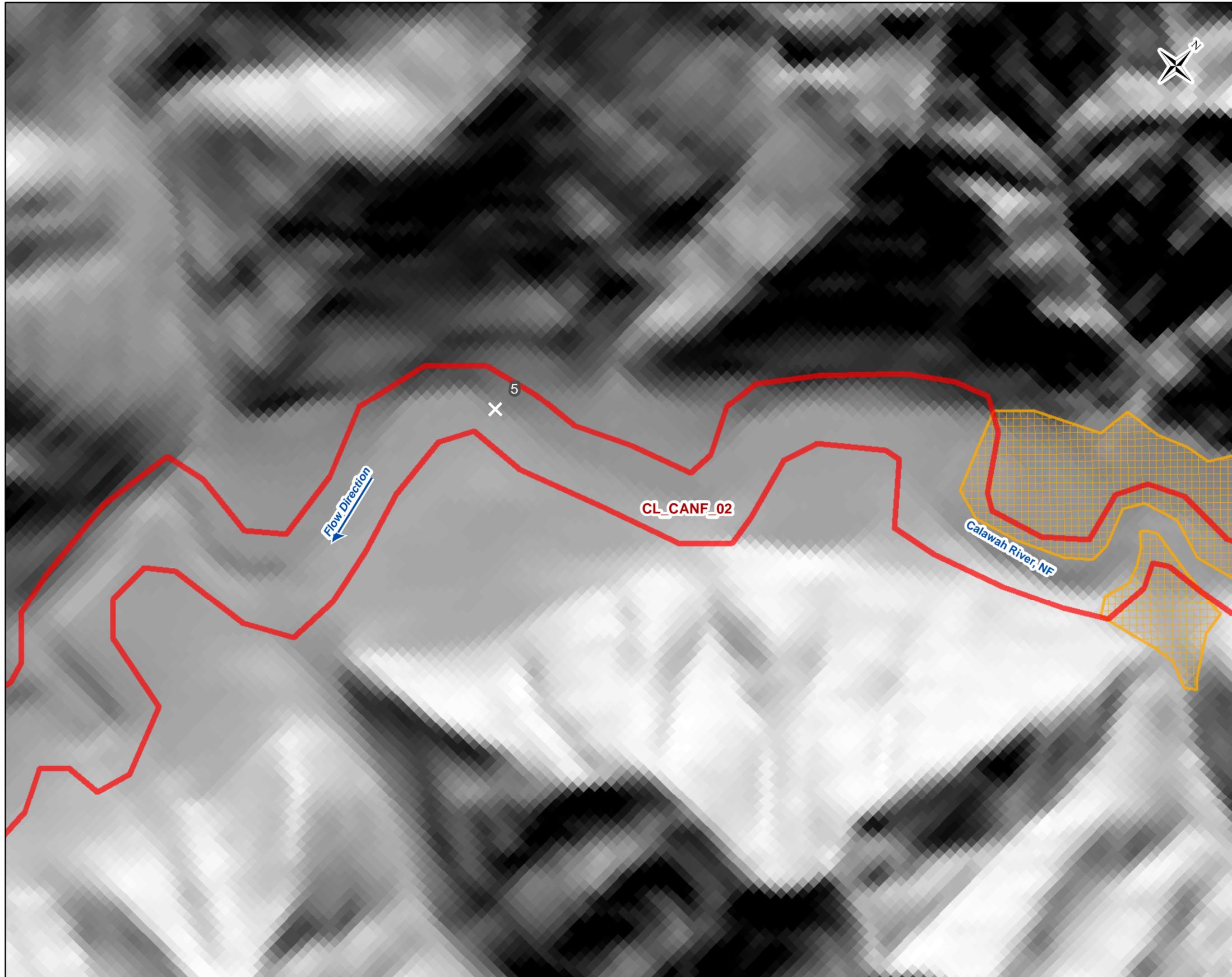


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Calawah River, NF Map 3

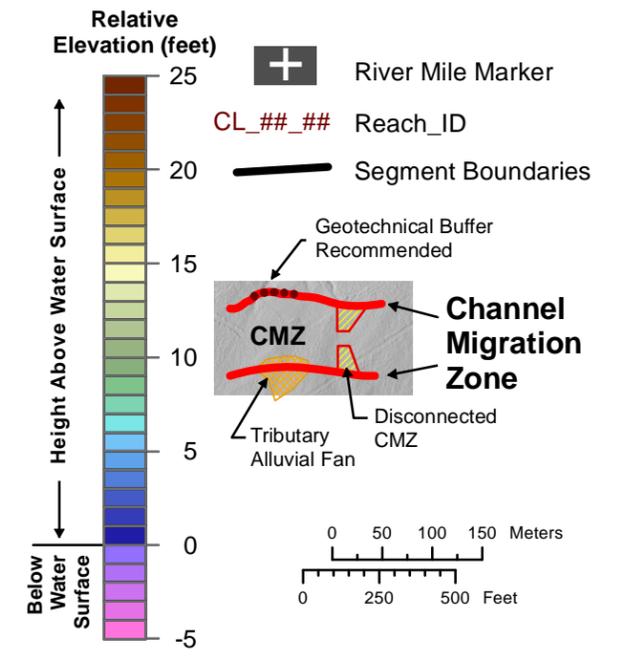
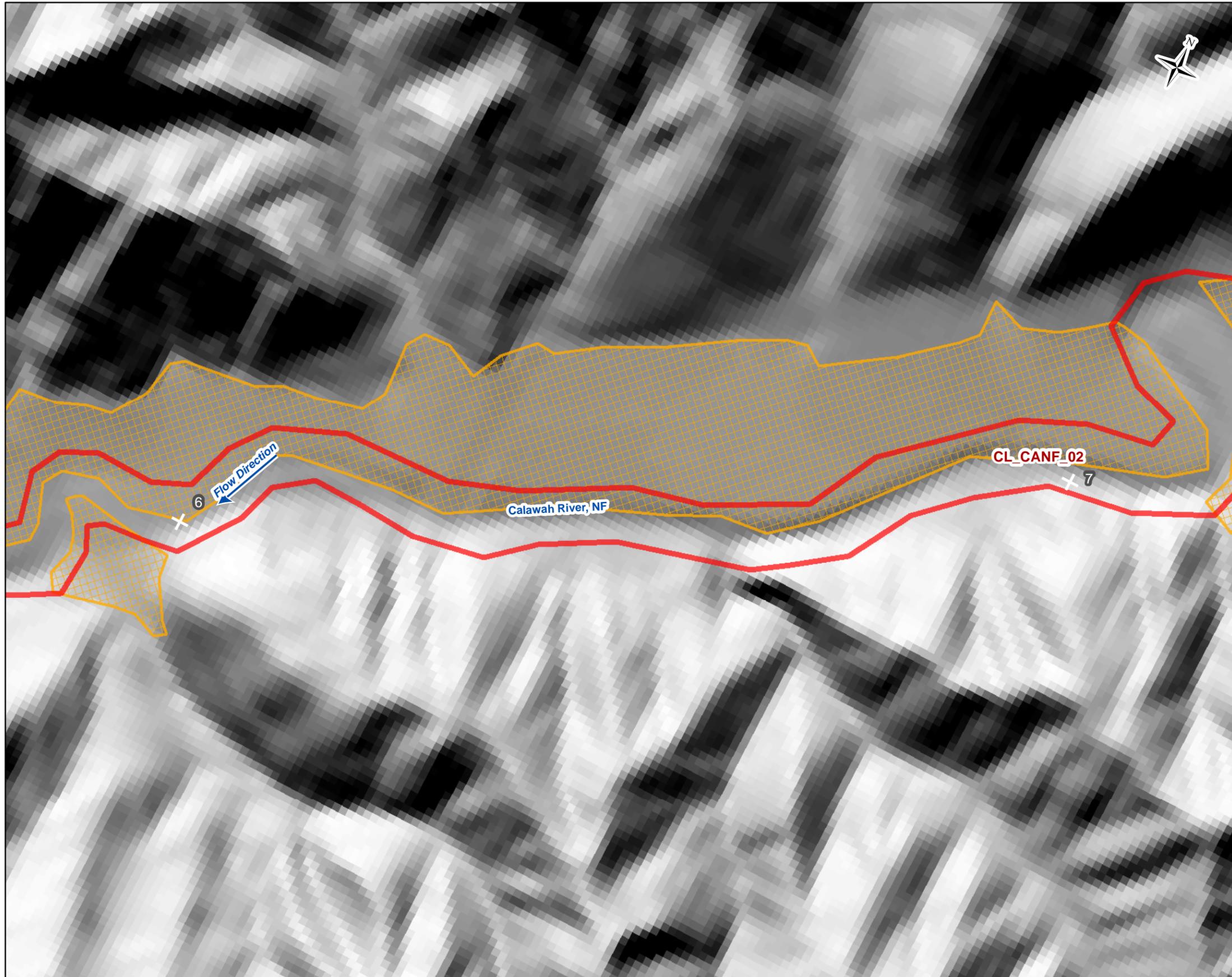


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Calawah River, NF Map 4

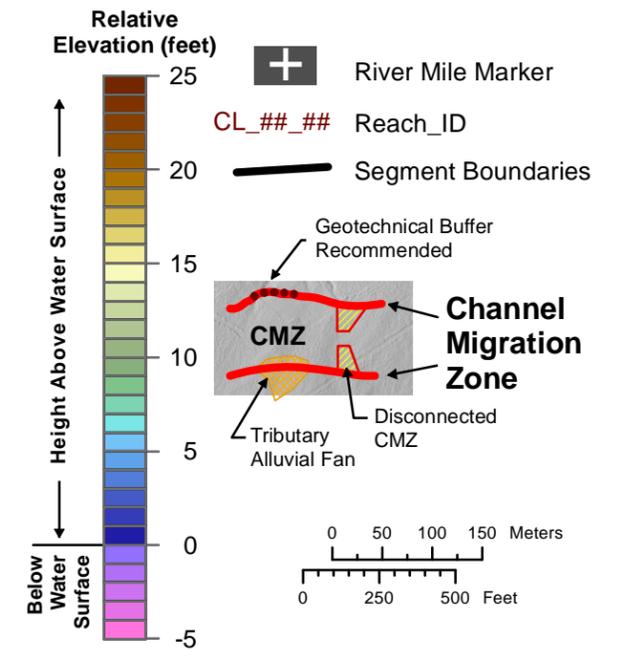
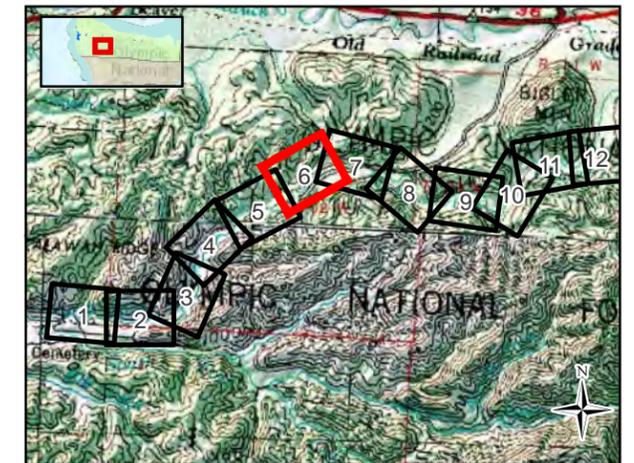
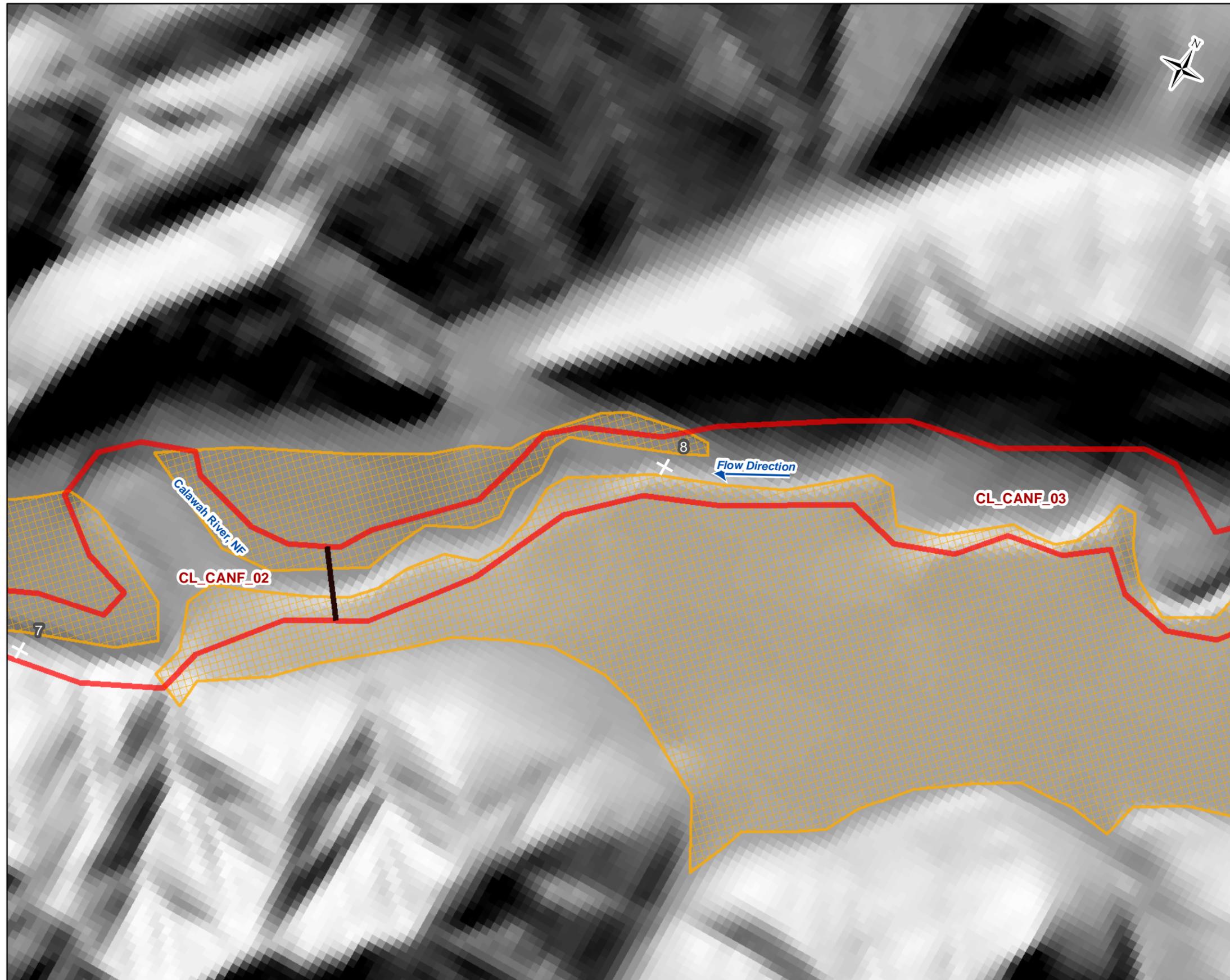


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Calawah River, NF Map 5

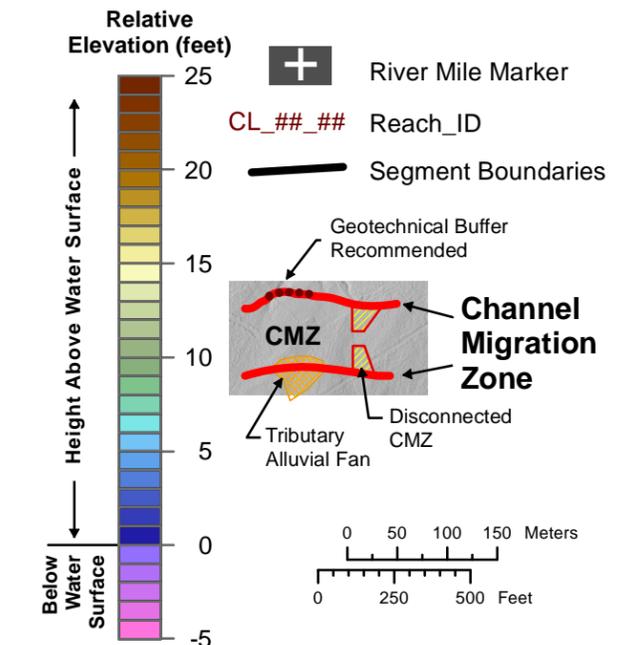


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Calawah River, NF Map 6

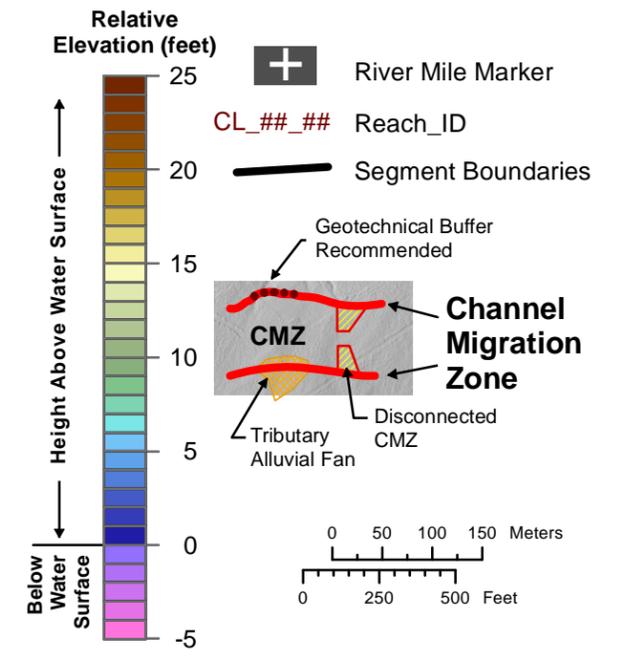
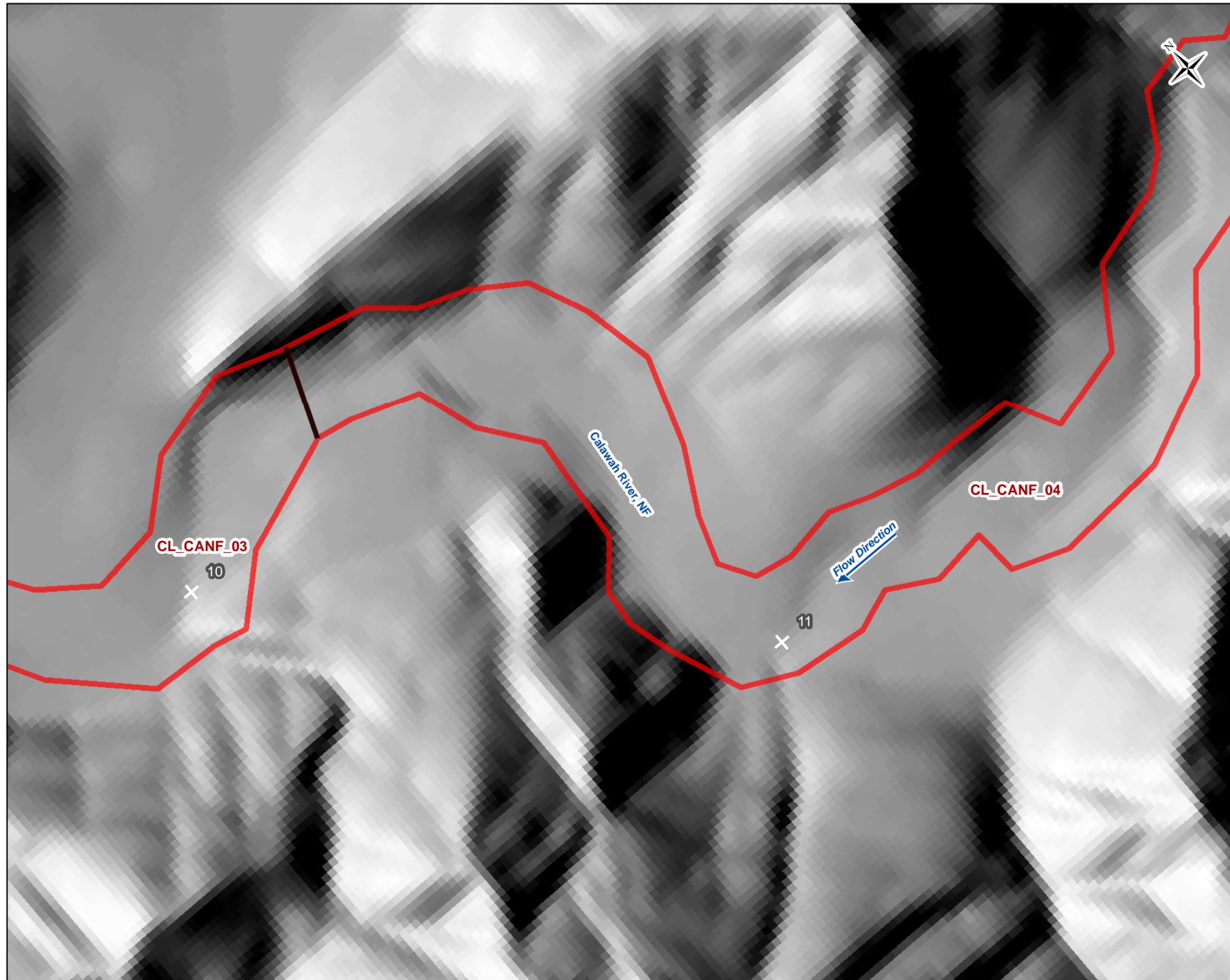


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Calawah River, NF Map 7



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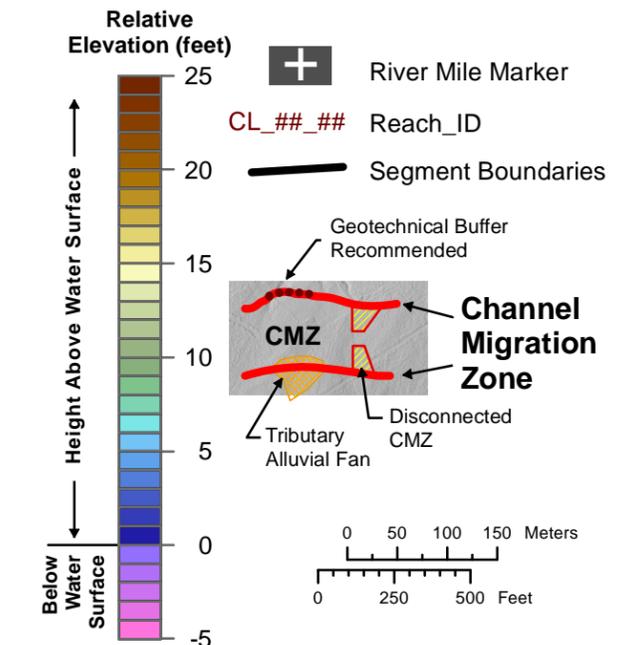
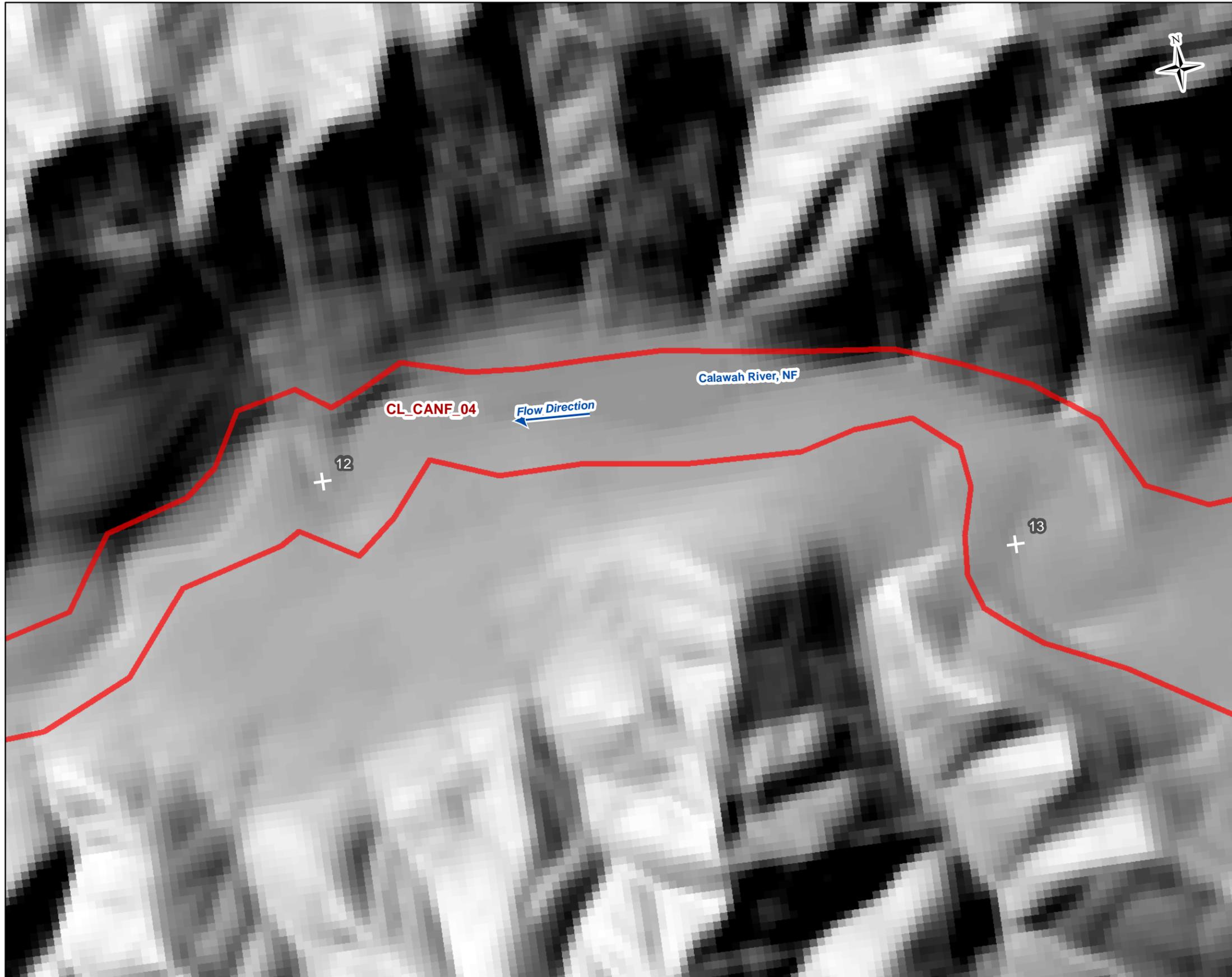
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Calawah River, NF Map 8

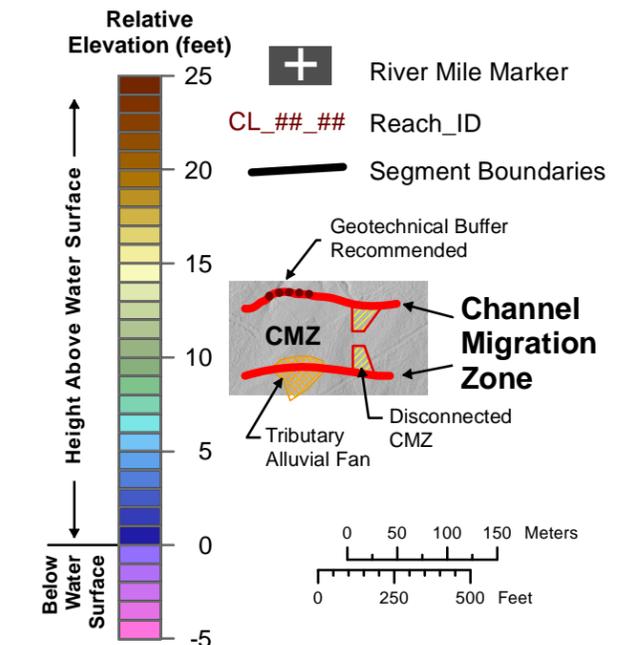
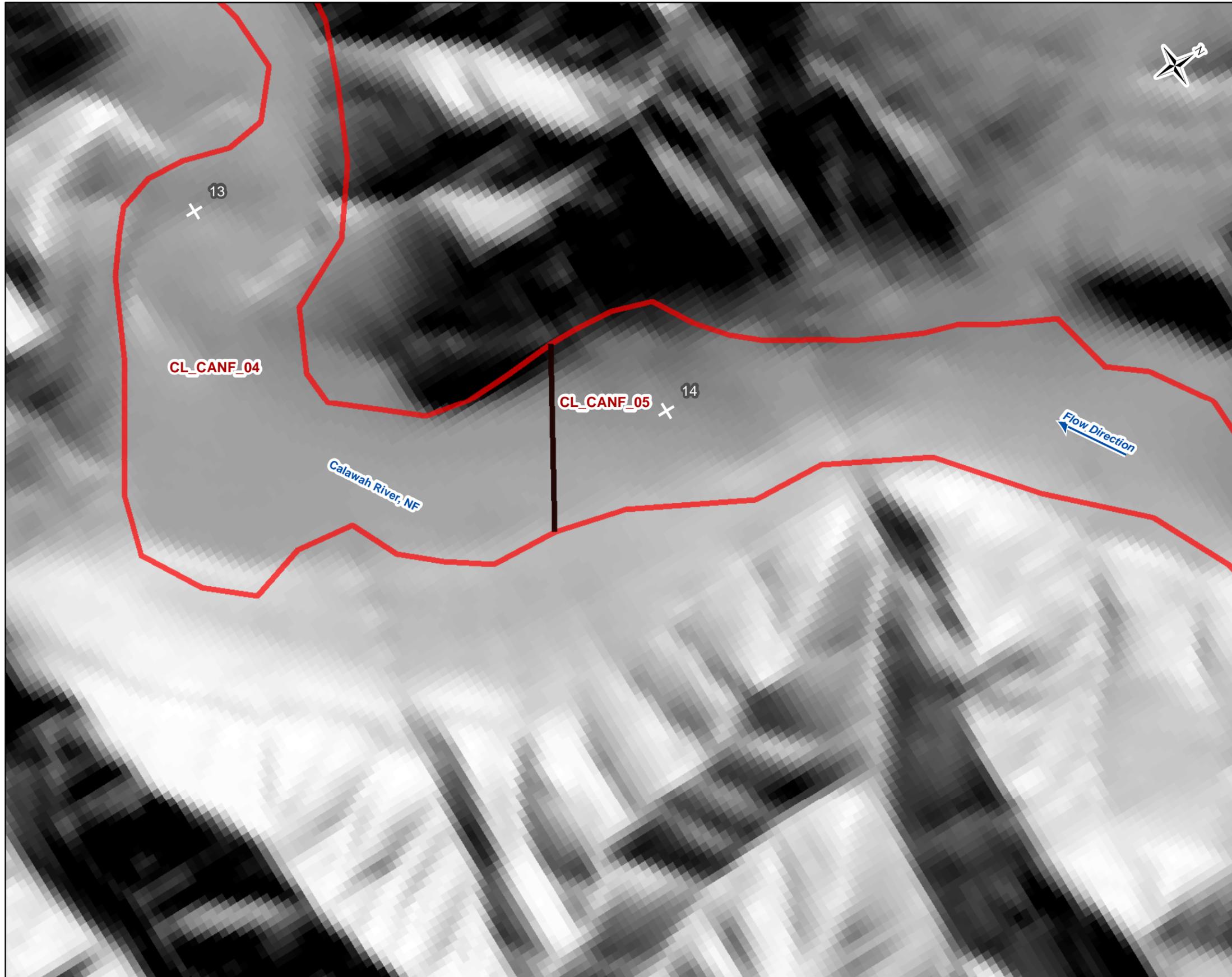


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Calawah River, NF Map 9

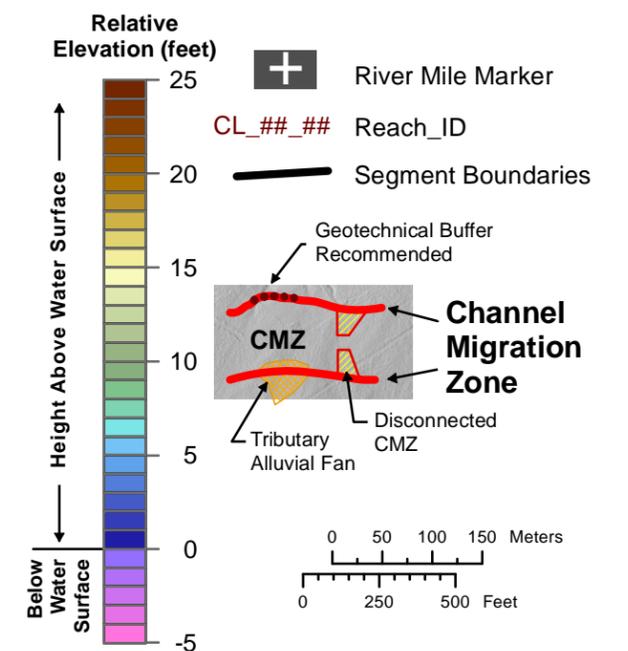
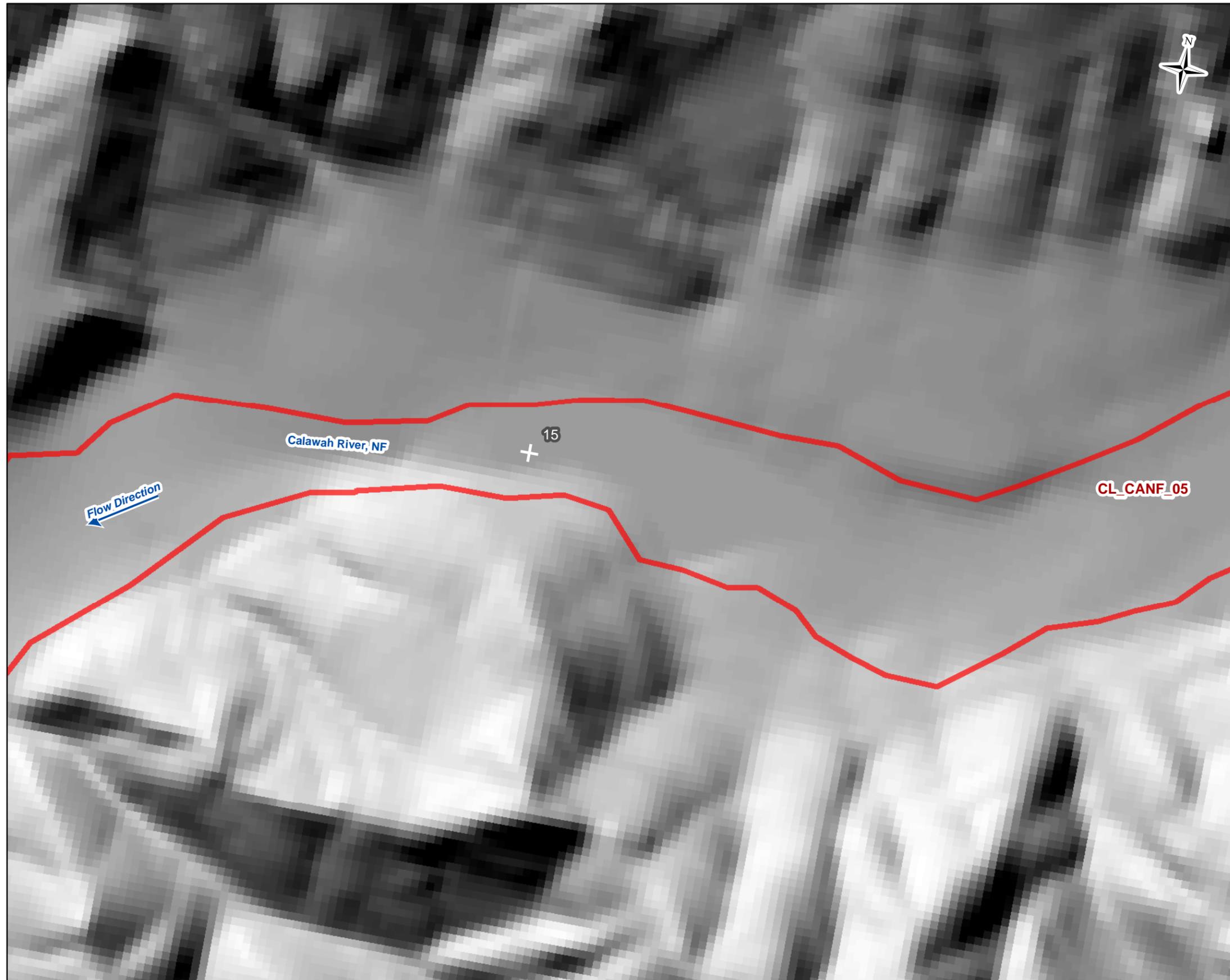


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Calawah River, NF Map 10



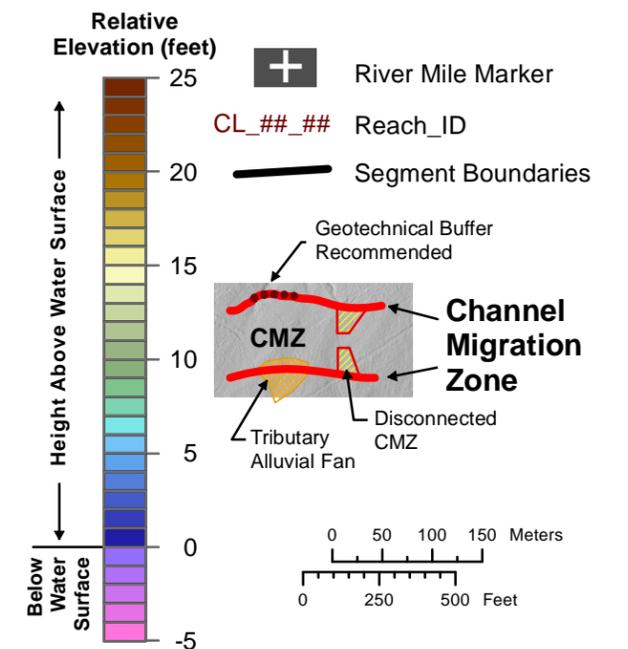
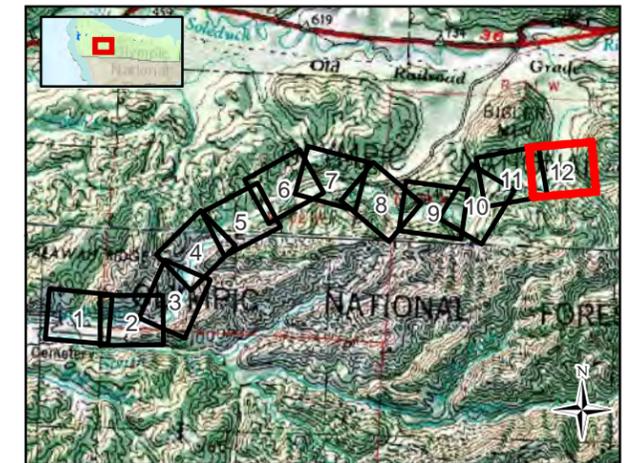
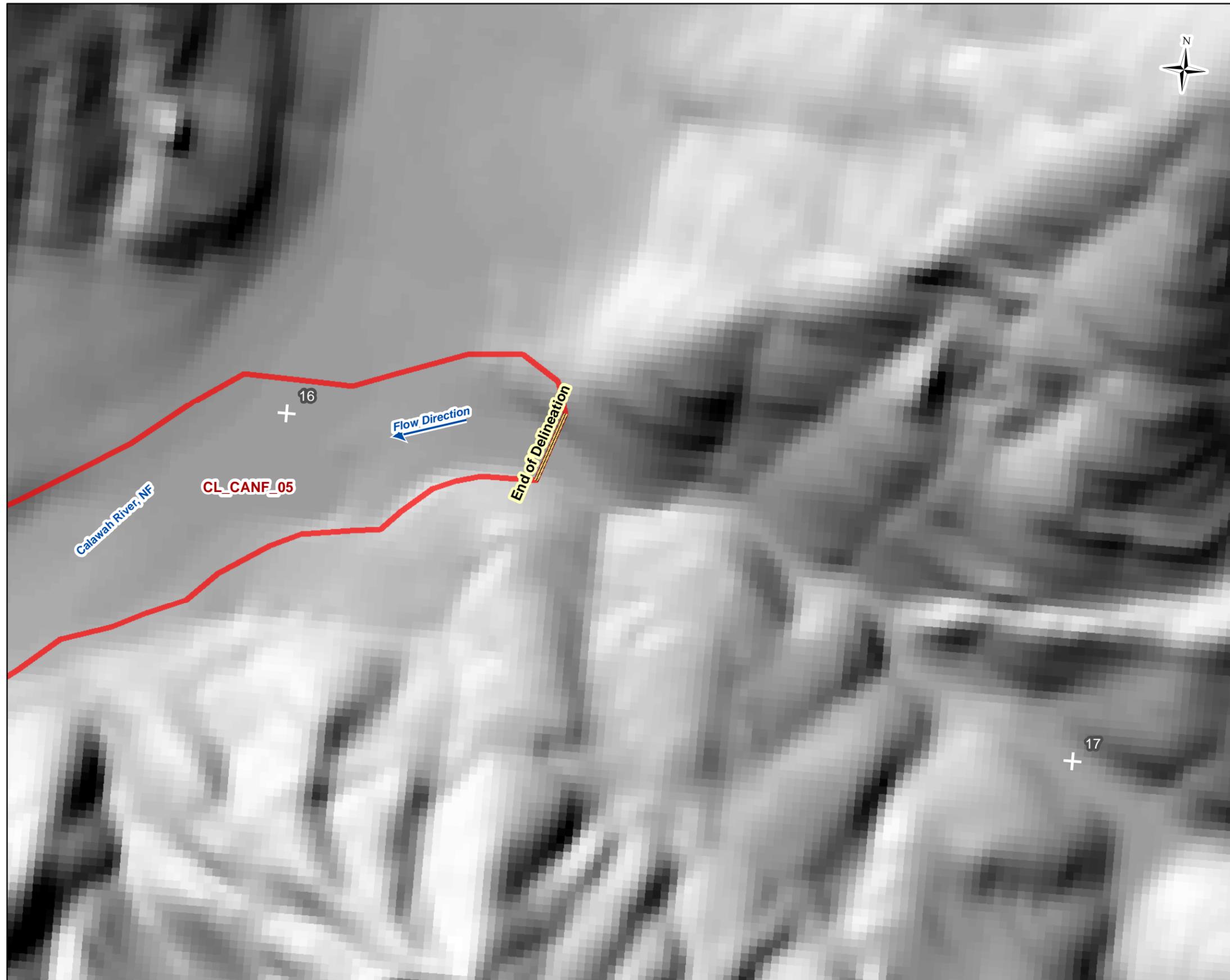
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Calawah River, NF Map 11



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Calawah River, NF Map 12