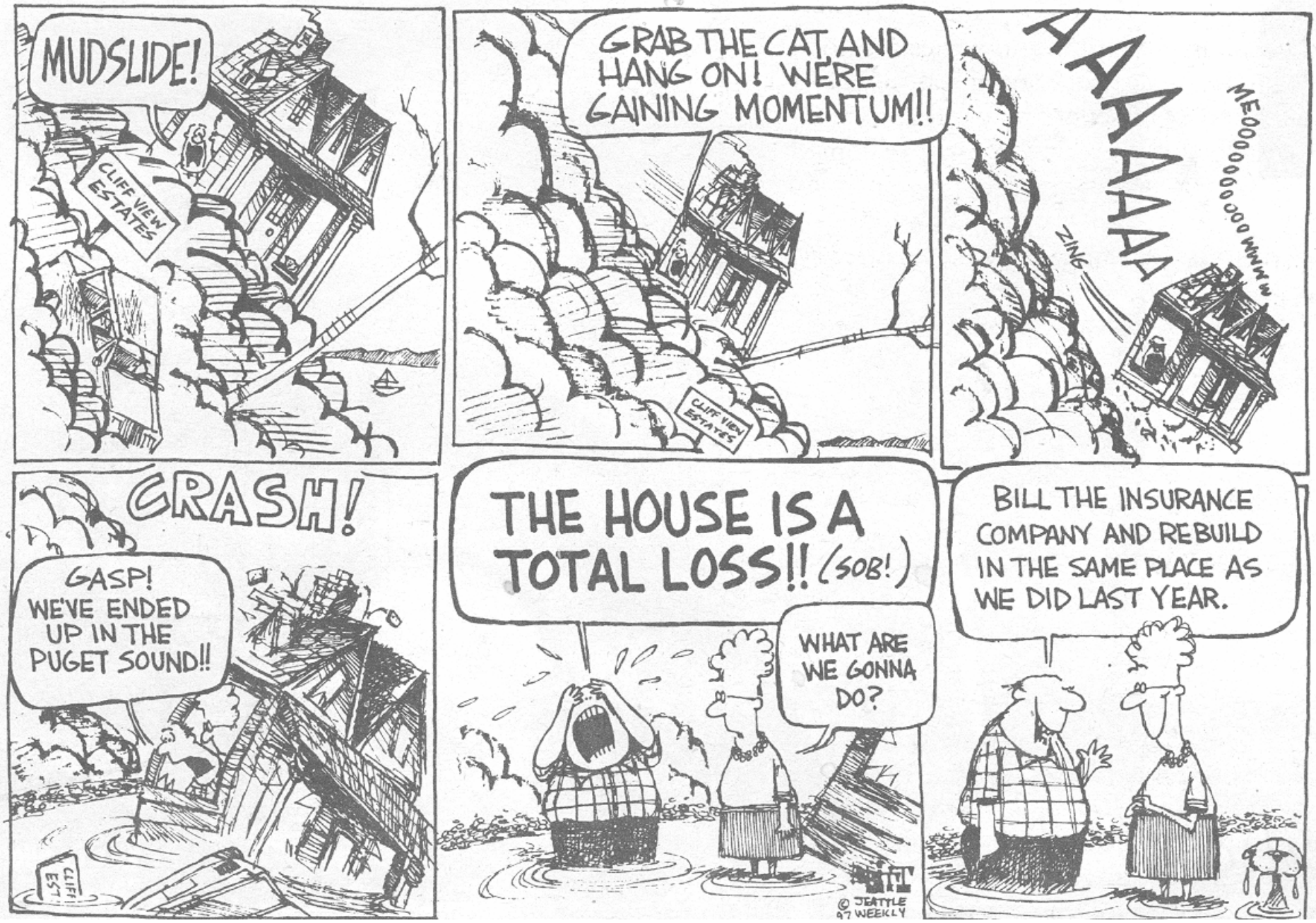
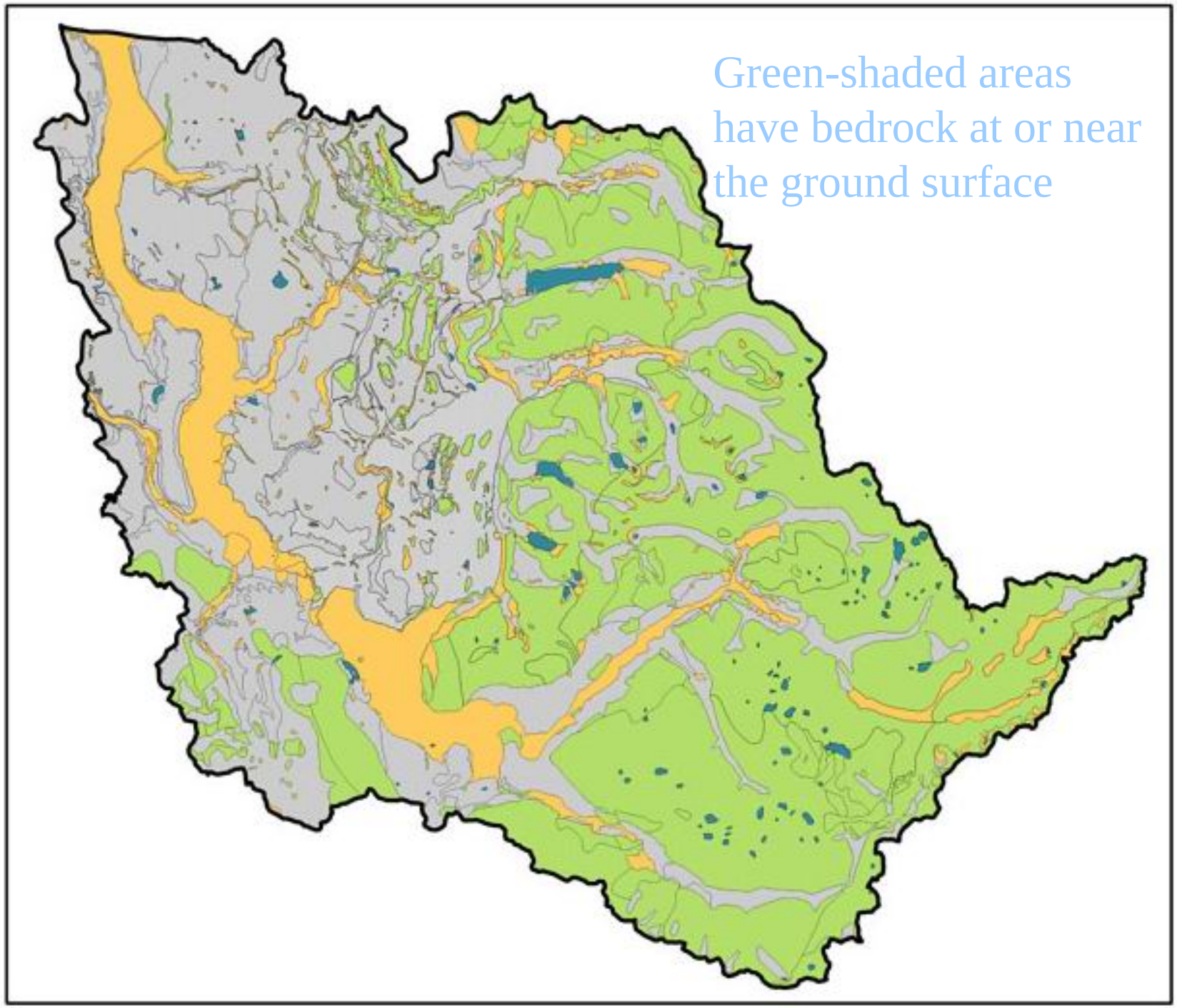
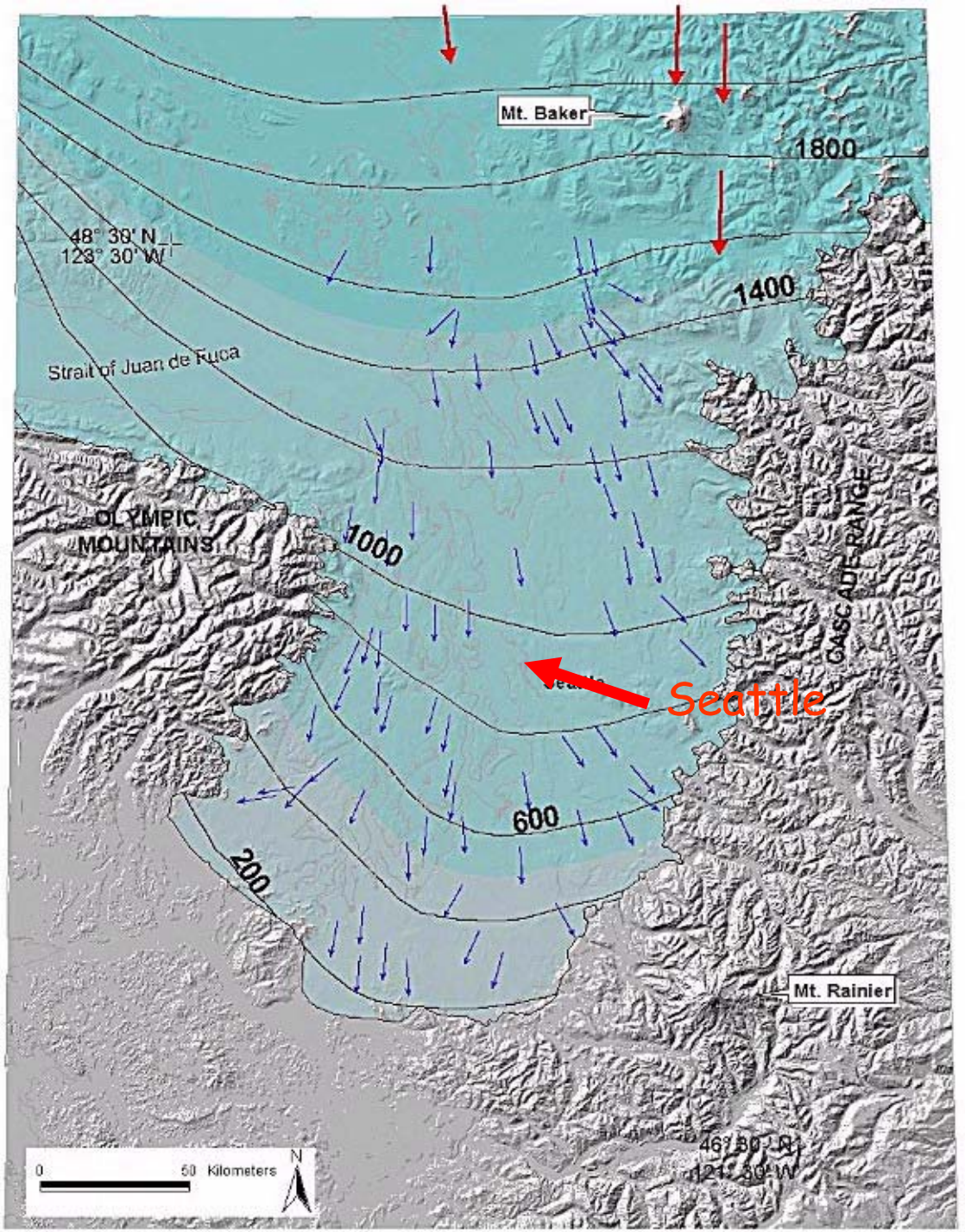

MUDSLIDE!
CLIFF VIEW ESTATES
GRAB THE CAT AND HANG ON! WE'RE GAINING MOMENTUM!!
CLIFF VIEW ESTATES
AAAAAA
ZING
MEOOOOOOOOOWWWW
GRASH!
GASP! WE'VE ENDED UP IN THE PUGET SOUND!!
CLIFF EST
THE HOUSE IS A TOTAL LOSS!! (SOB!)
WHAT ARE WE GONNA DO?
BILL THE INSURANCE COMPANY AND REBUILD IN THE SAME PLACE AS WE DID LAST YEAR.
© SEATTLE WEEKLY

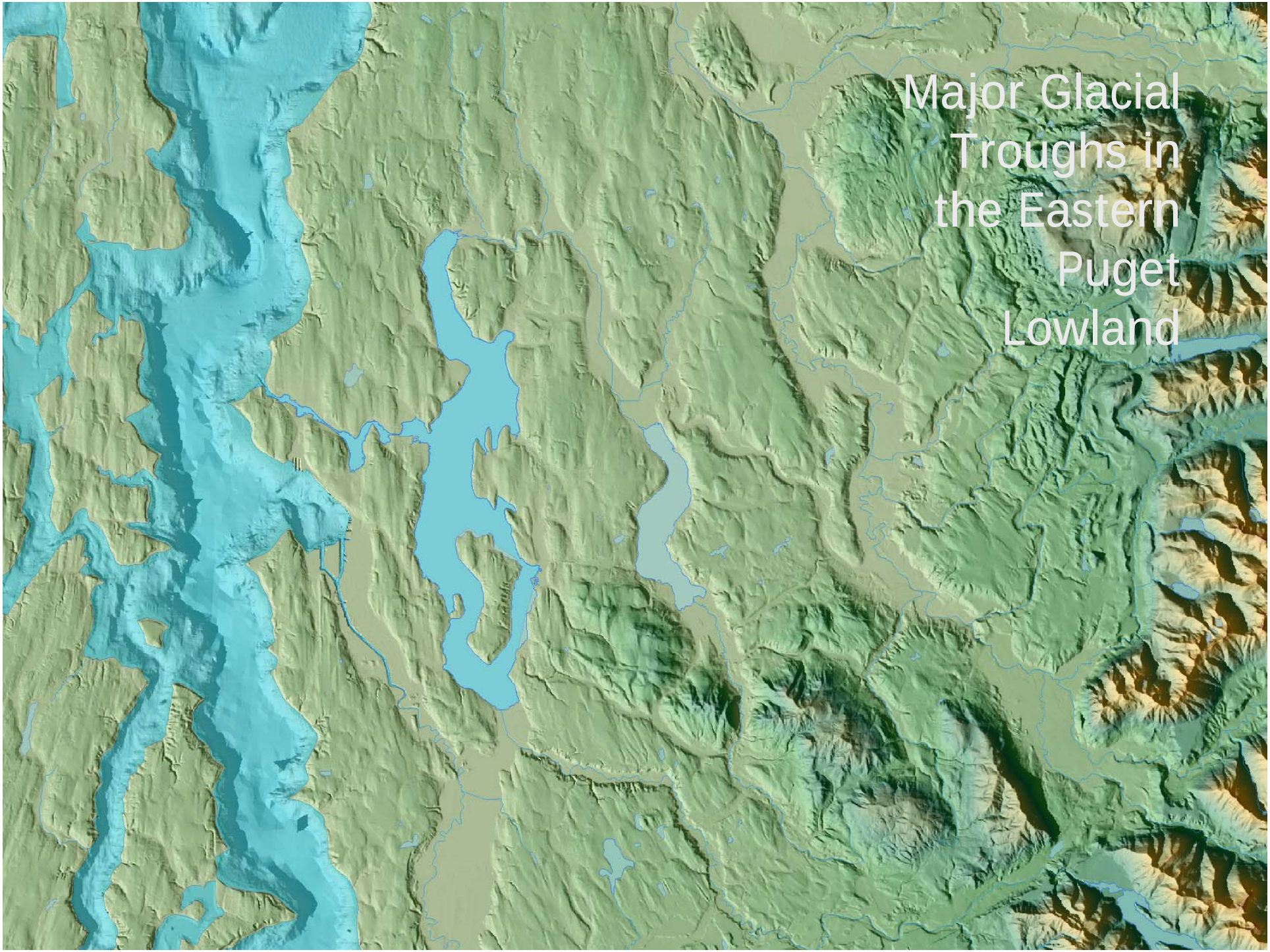
Geomorphology of
Stream Channels in
the Lower Snoqualmie
River Watershed

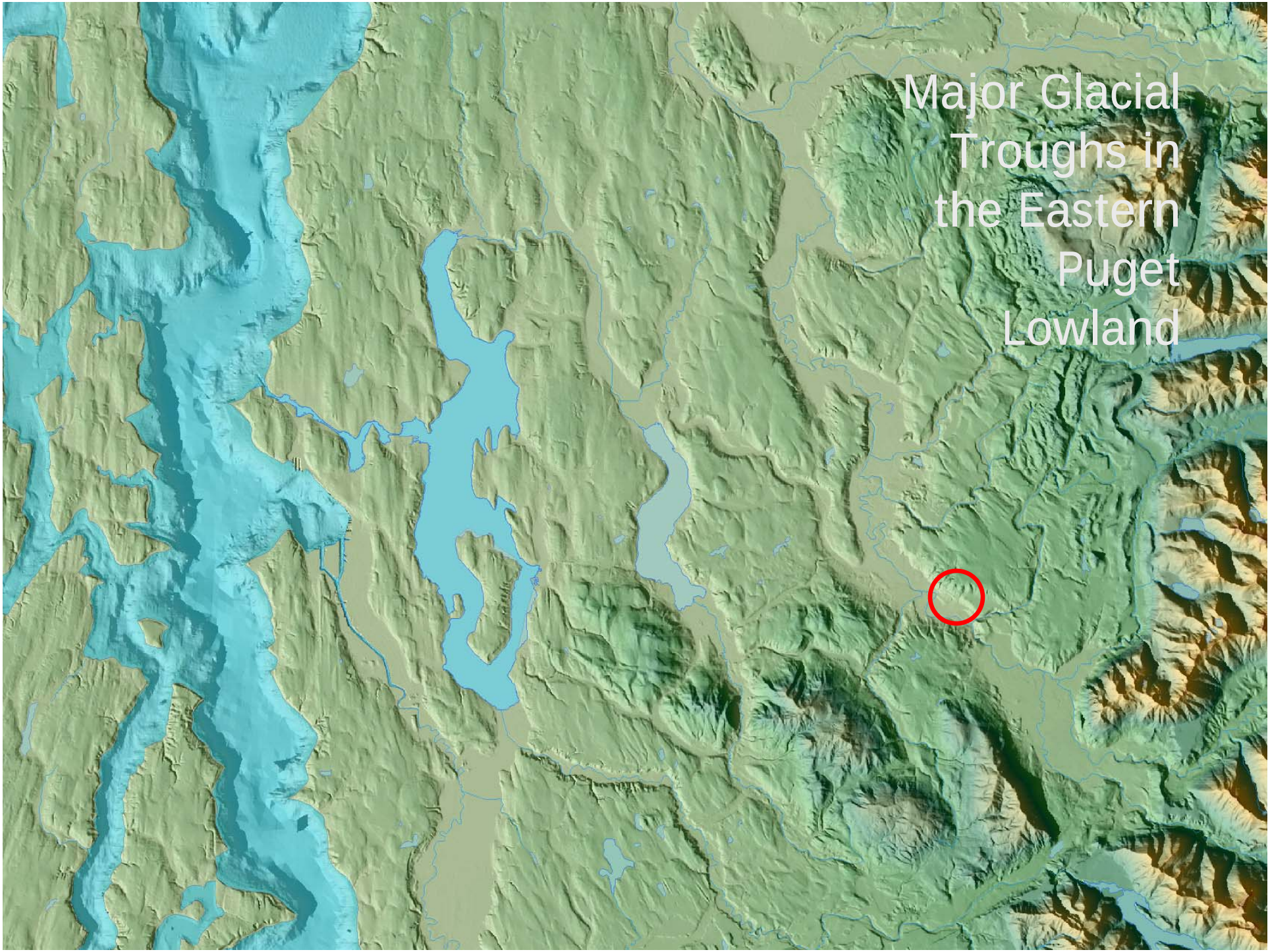

Green-shaded areas
have bedrock at or near
the ground surface

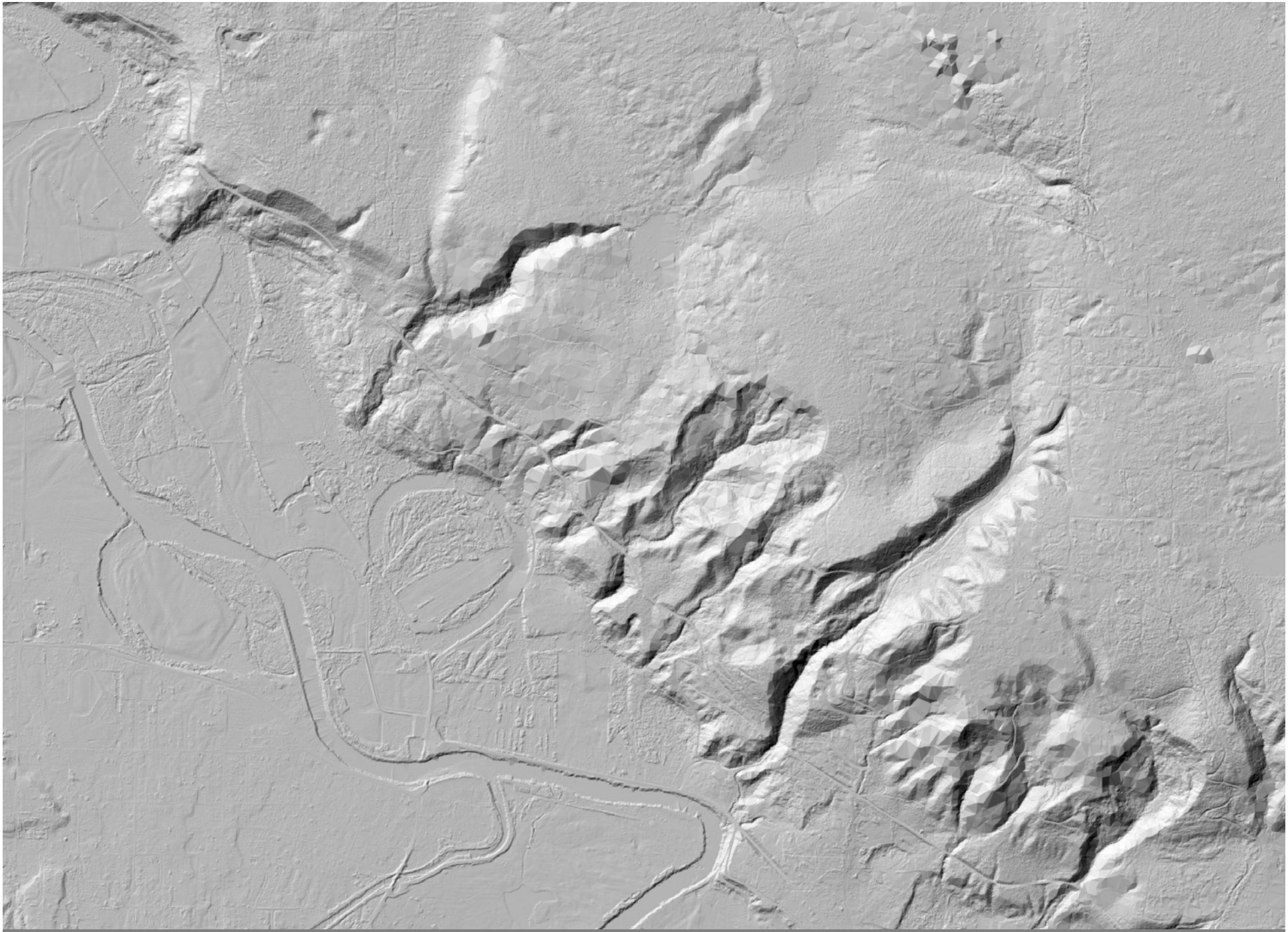
The Maximum Extent of the Puget Lobe of the Cordilleran ice sheet during the Vashon stade of the Fraser (late Wisconsin) glaciation. Approximately 14,000 years bp. Contour lines show ice thickness in meters.

Easterbrook, 1979



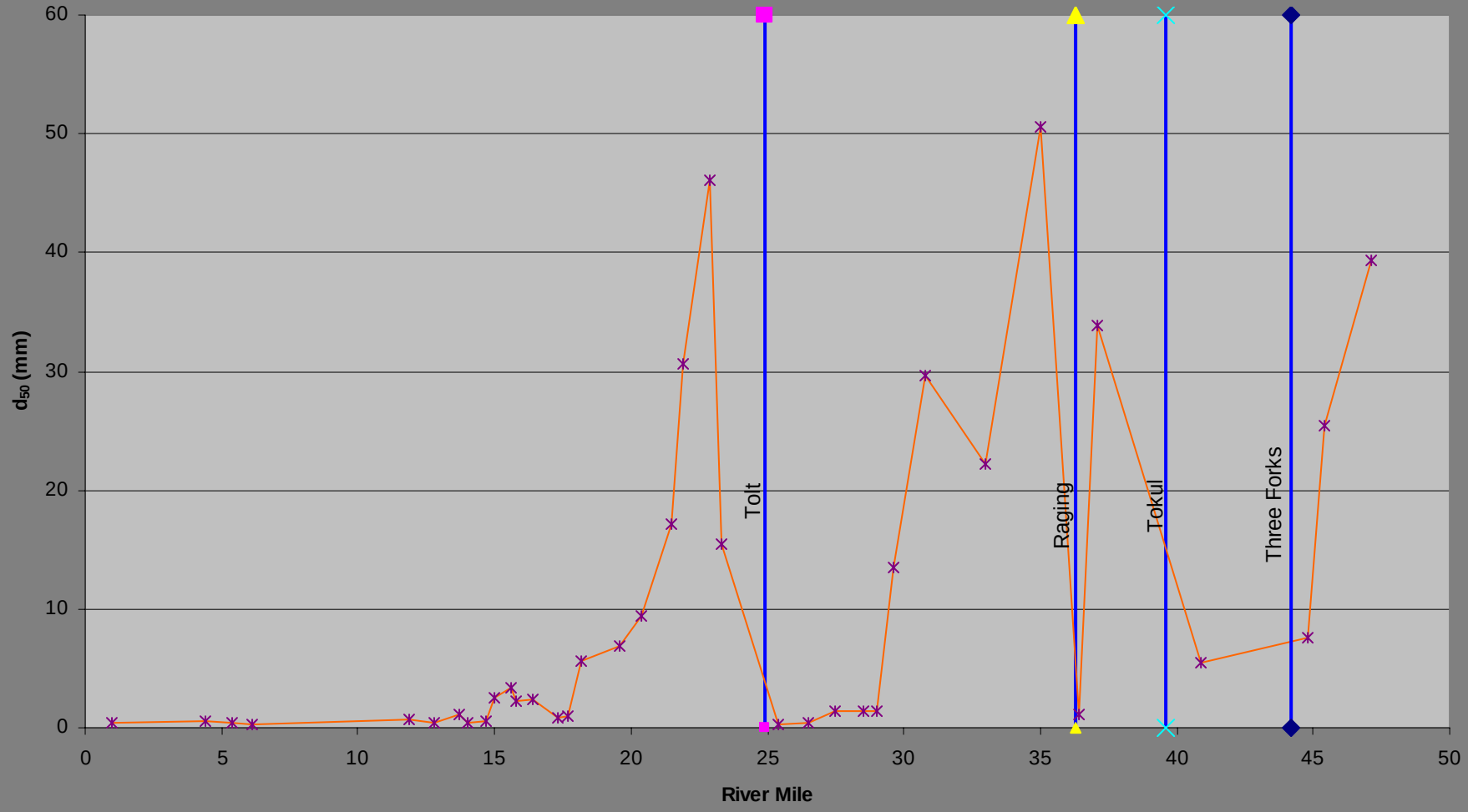

Major Glacial
Troughs in
the Eastern
Puget
Lowland


Major Glacial Troughs in the Eastern Puget Lowland



Lower Snoqualmie Mainstem

Figure 21 Snoqualmie Streambed Sediment Texture (Booth et. al. 1991)

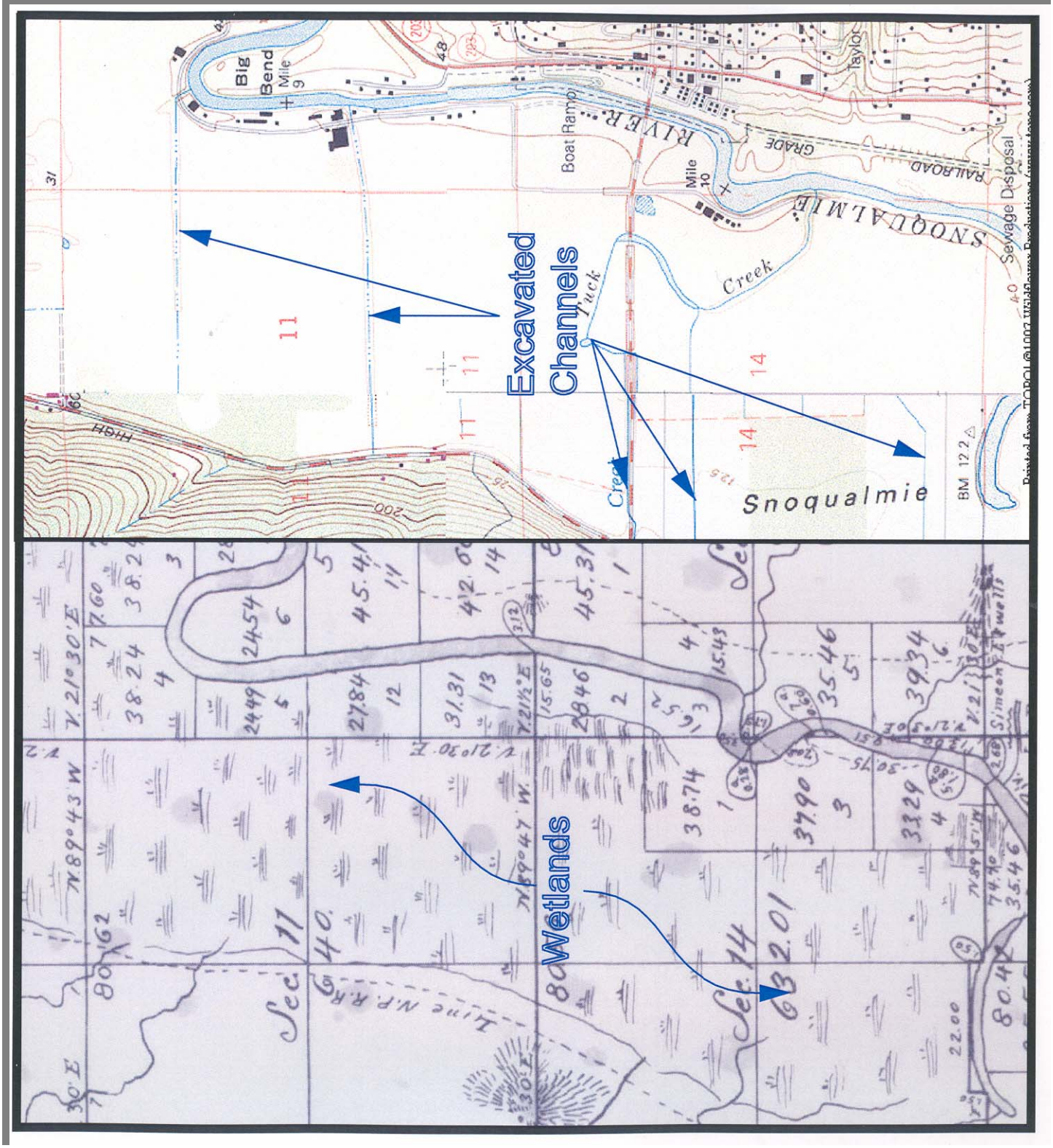


The particle size shown is for for the median particle size (d_{50}) for the subsurface sample collected at each sample site. The texture of the subsurface sediment in an alluvial channel bed is similar to the texture of the of the bedload sediment in transport at the sample location.

Ripple marks in sand on the bed of the Snoqualmie River near Duvall

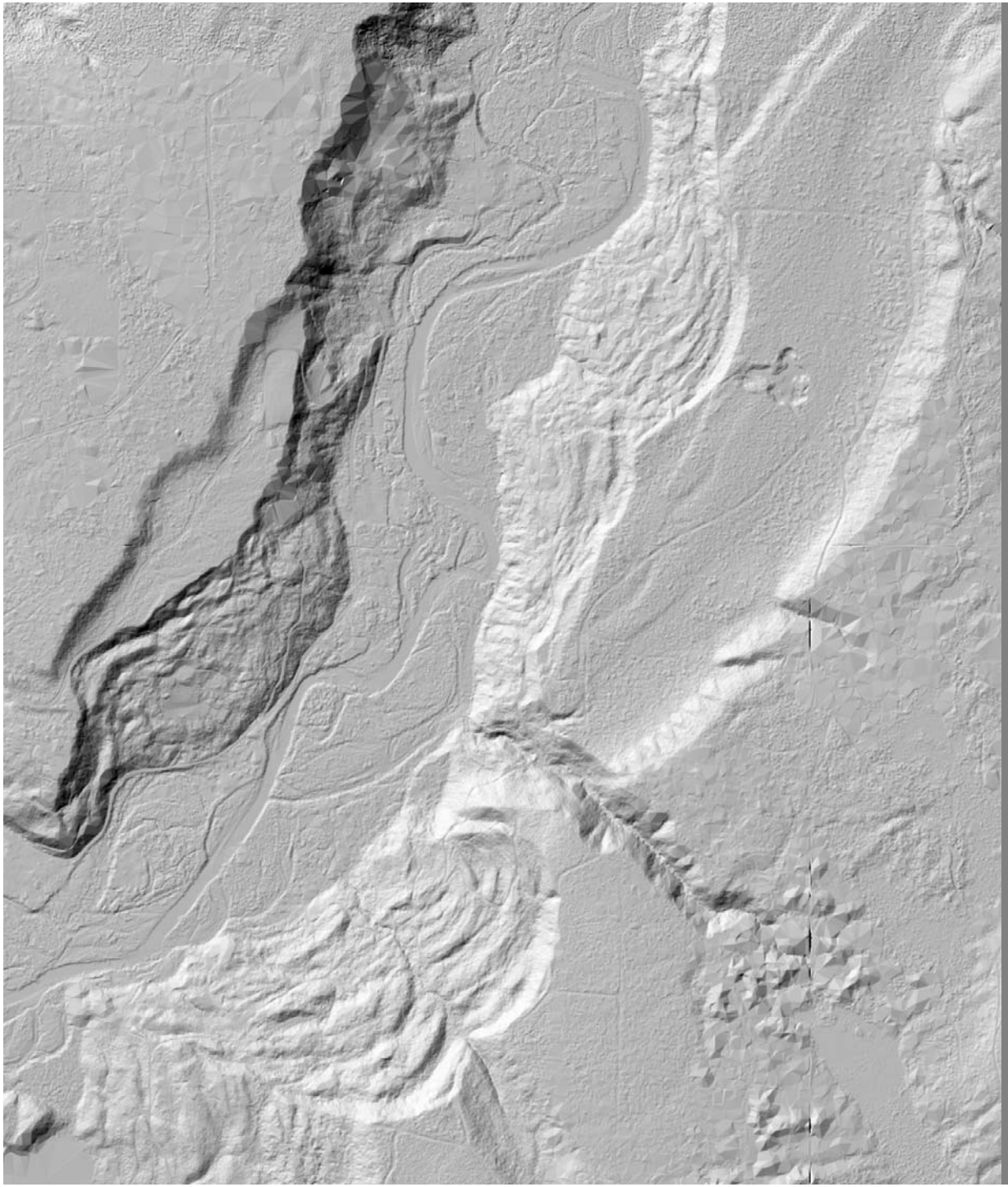
Meandering Channel and natural levees on the Lower Snoqualmie Mainstem

A comparison of wetlands shown on the floor of the Snoqualmie Valley in 1873 GLO mapping (left) with recent USGS mapping (right).



Lower Tolt
River

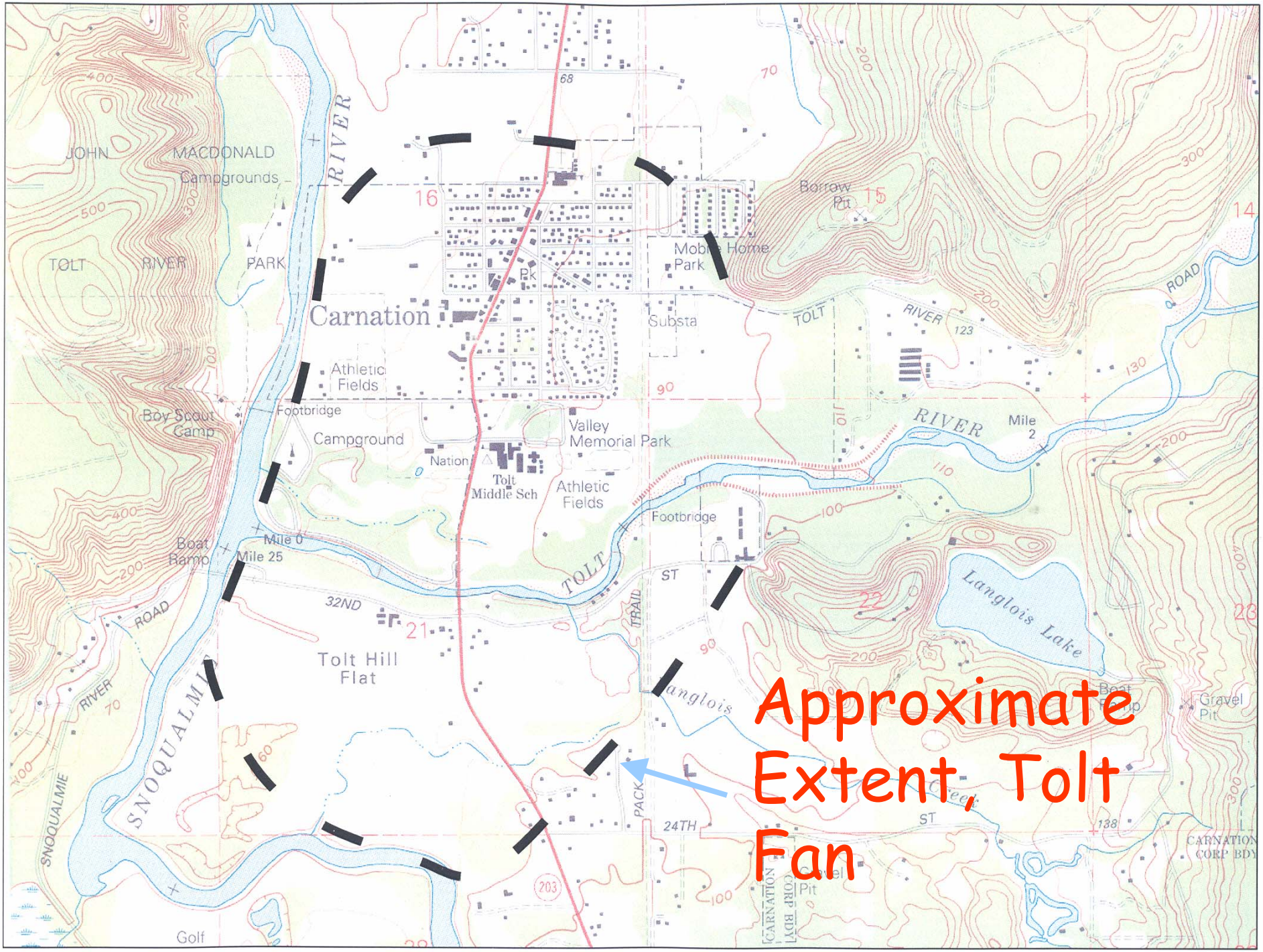
Lower Raging River

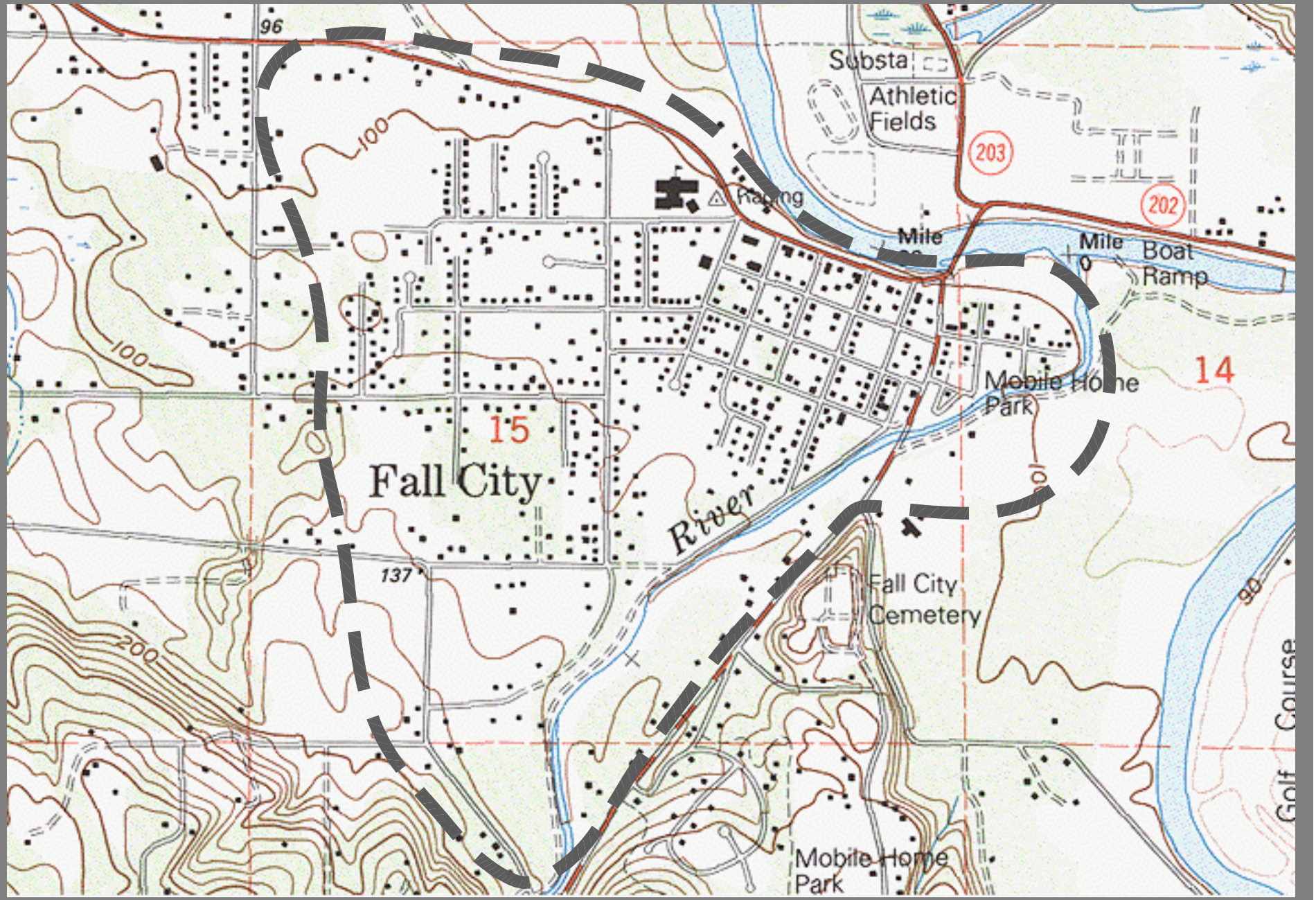


Landslides along the Lower Tolt Valley

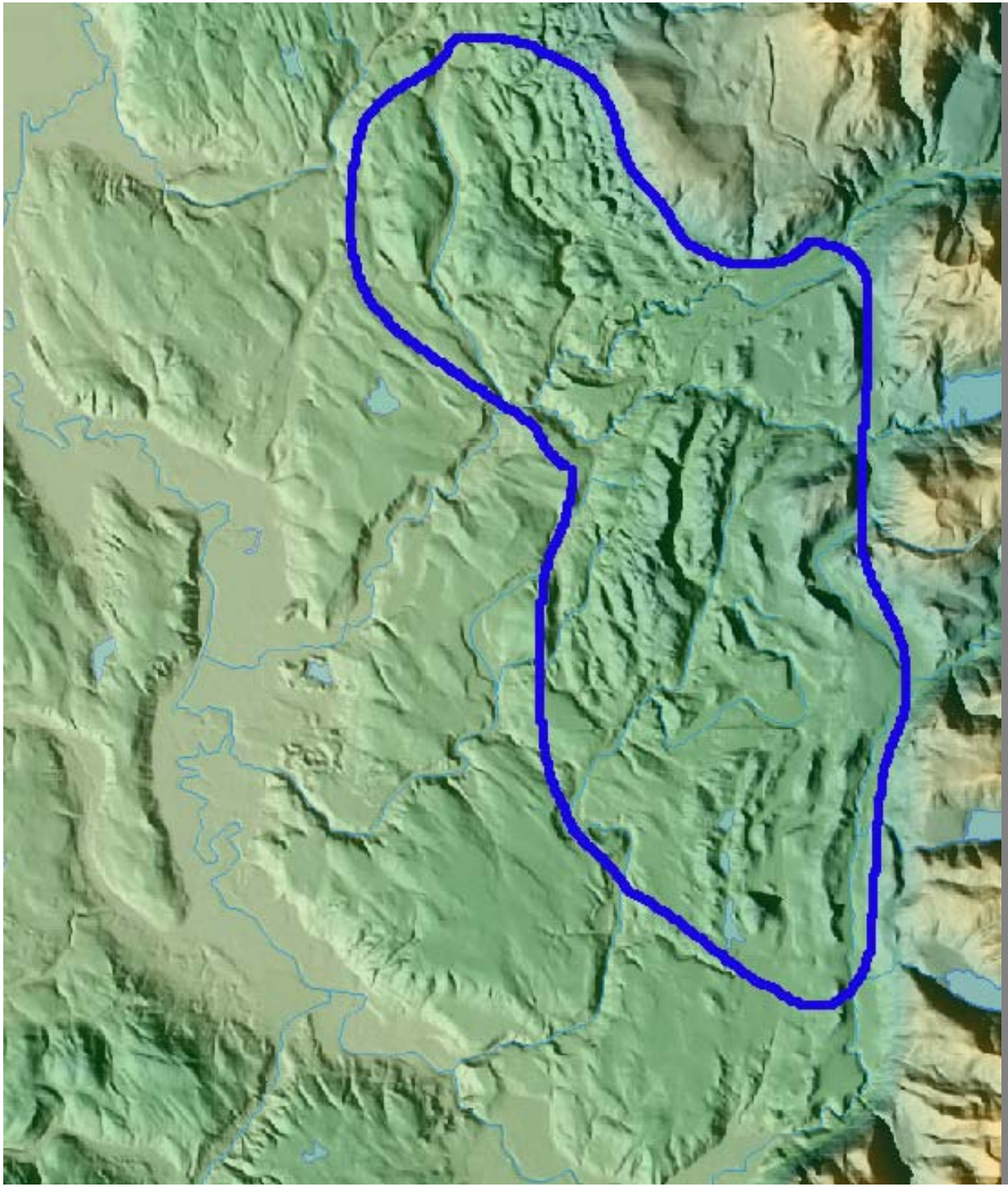
Braiding on the Tolt River above Carnation

Plane-bed Channel in the
Raging River


Approximate Extent, Tolt Fan
Carnation
Tolt Hill Flat
Valley Memorial Park
Athletic Fields
Campground
Boy Scout Camp
Boat Ramp
Mile 0
Mile 25
Mile 2
Footbridge
Tolt Middle Sch
Mobile Home Park
Borrow Pit
Substa
Langlois Lake
Gravel Pit
Golf
JOHN MACDONALD Campgrounds
TOLT RIVER PARK
TOLT RIVER
SNOQUALMIE RIVER
ROAD
32ND
24TH
ST
TRAIL
PACK

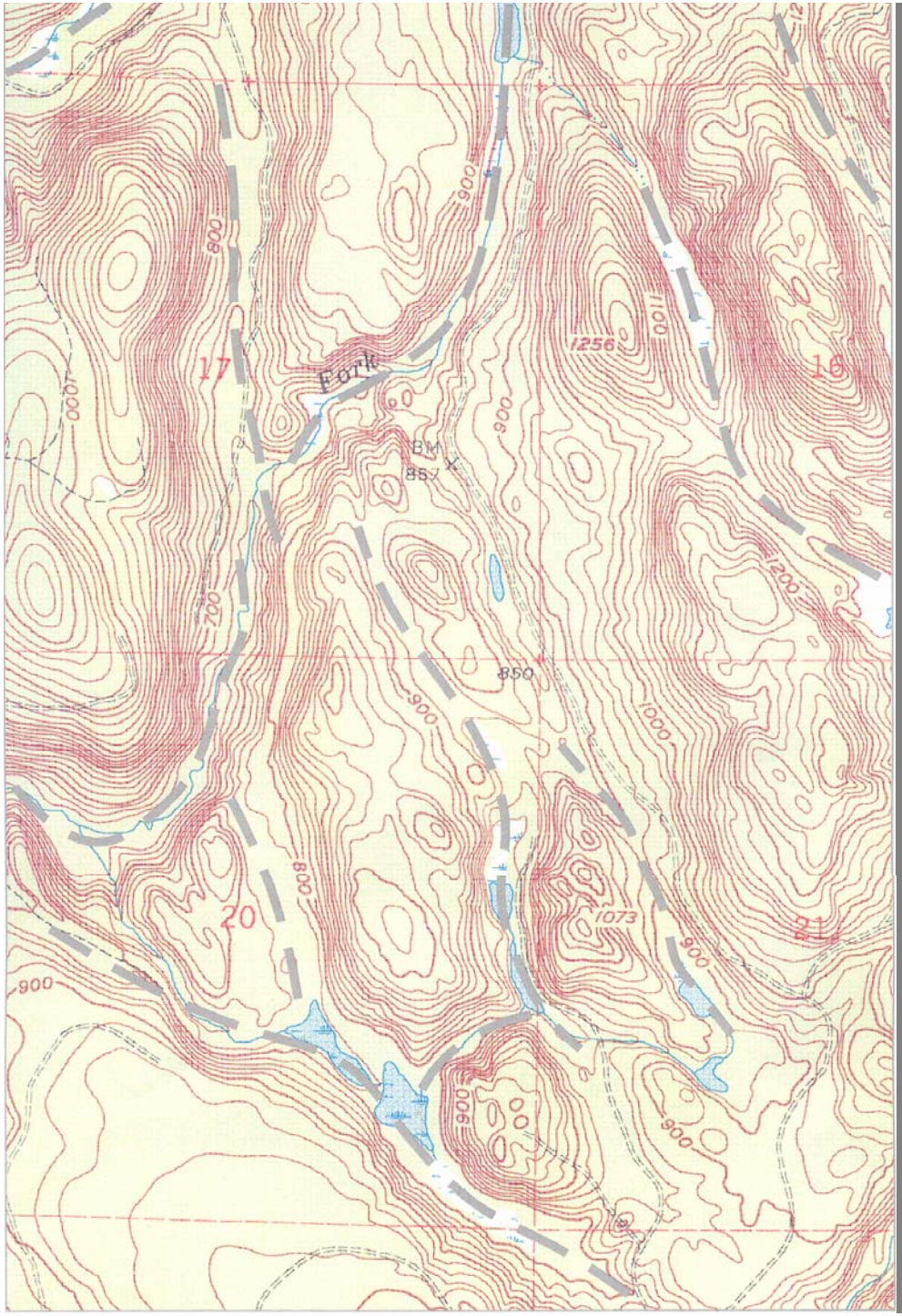

96
Substa
Athletic
Fields
203
202
Ramp
Mile
Mile
0
Boat
Ramp
100
100
Mobile Home
Park
14
15
Fall City
River
137
Fall City
Cemetery
200
90
Golf Course
Mobile Home
Park

Gravel bar at the mouth of the Raging River Snoqualmie with bank erosion on the opposite bank.



East Side Tributaries

Area of Channelways outlined in blue

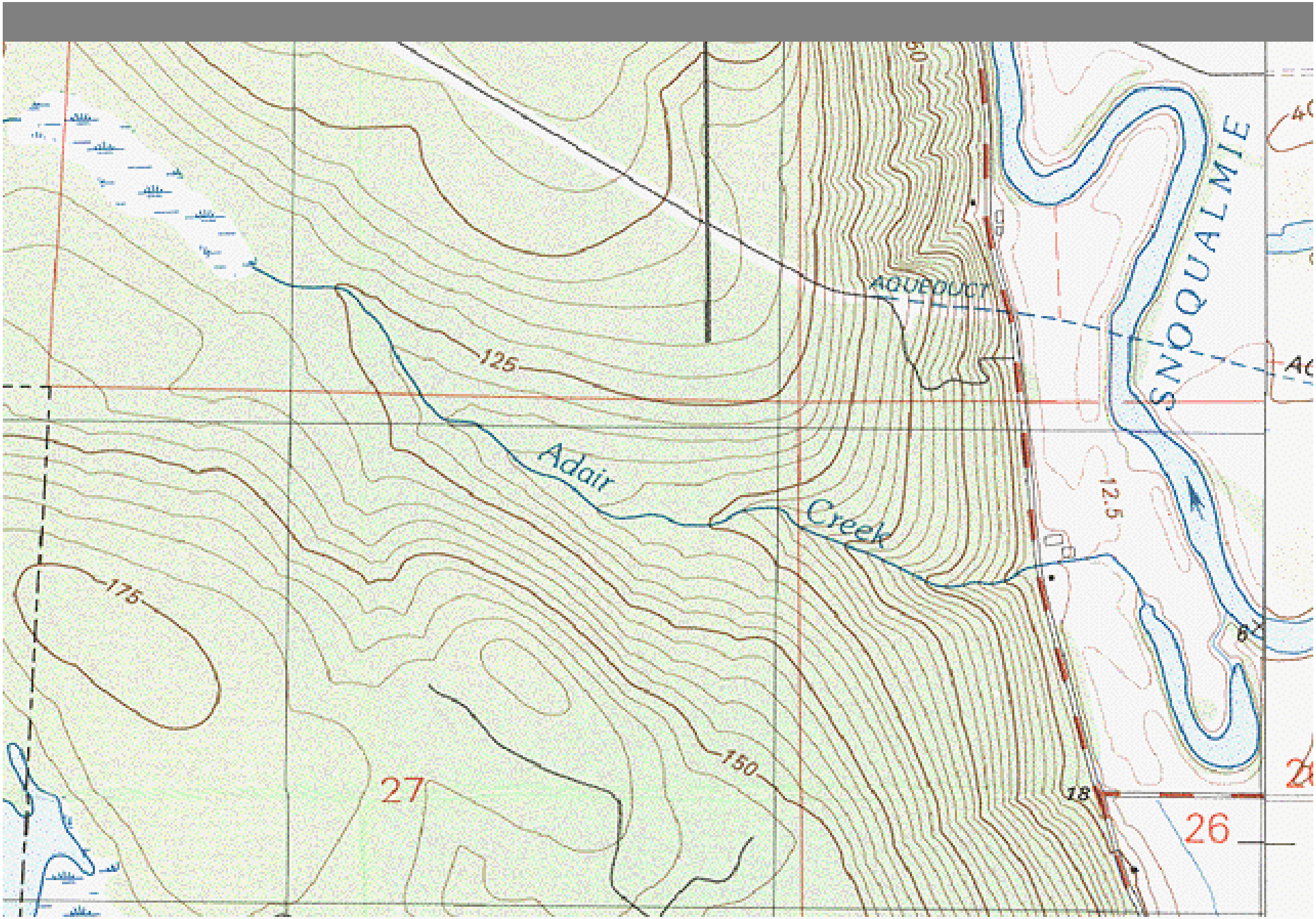


Channelways in the Griffin Creek drainage.

Cascade Channel in Peoples Creek

Current excavated Cherry Creek channel
Original Cherry Creek channel

West Side Tributaries



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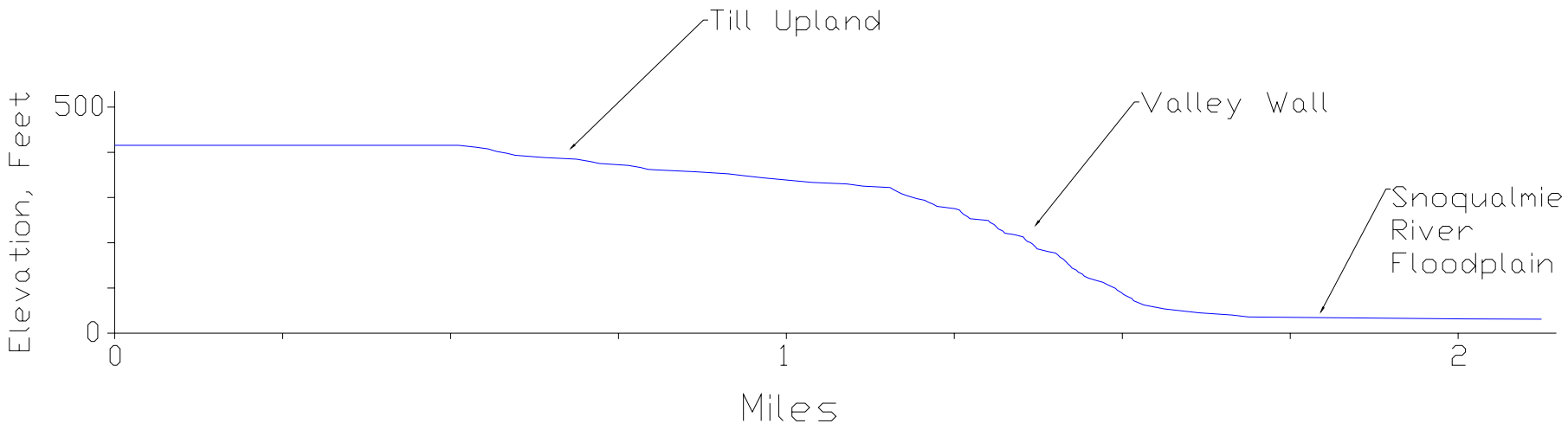
Adair Creek Profile

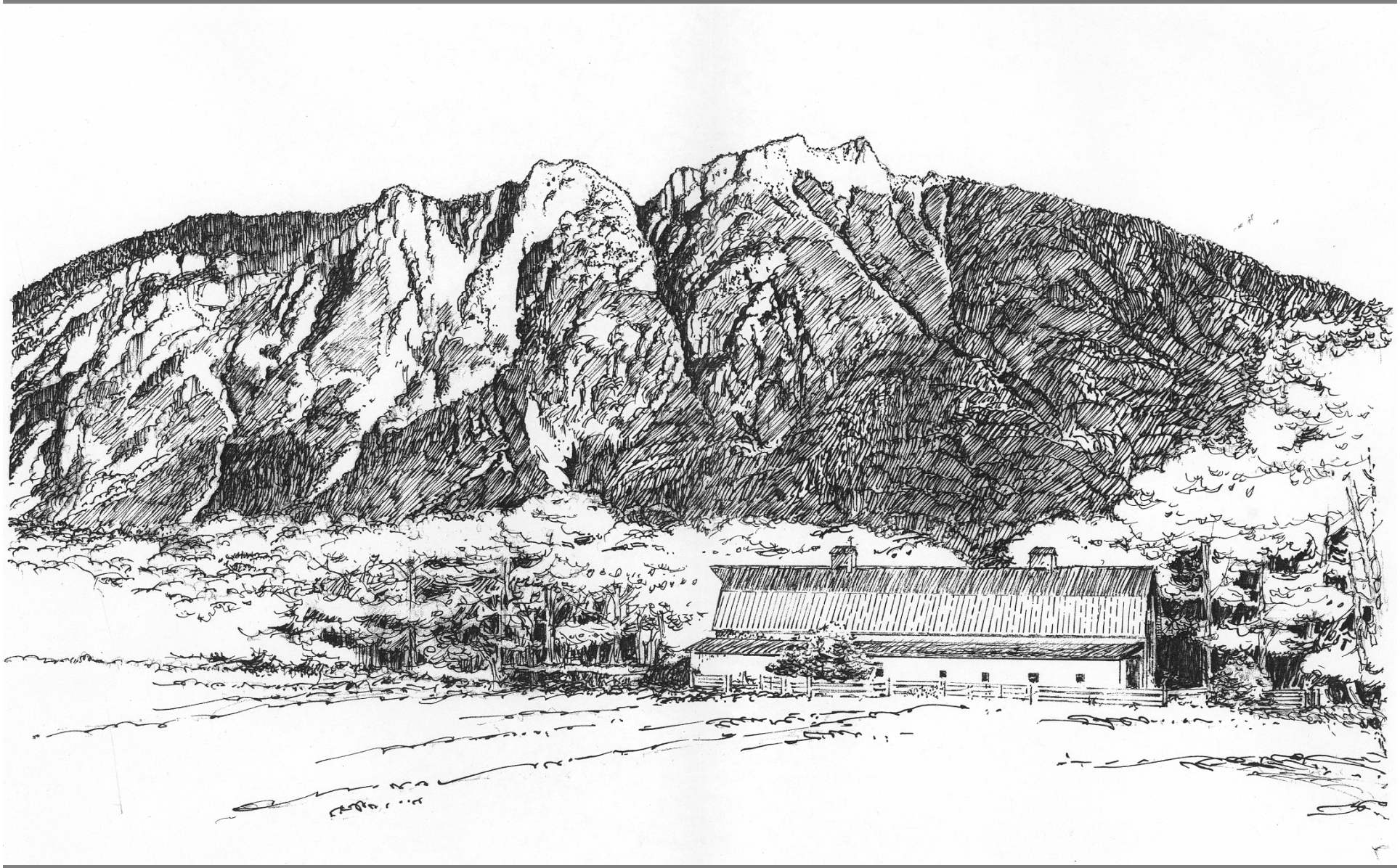


Boulder and wood step-weir on Tuck Creek

The “Little Grand Canyon”

Severe Incision in a small tributary channel that decends the west wall of the Snoqualmie Valley near Carnation. The erosion is a result of changes to the basin hydrology as a result of upstream land development

Trilogy



Pen and Ink by Frank Grouberg