

Riparian and Channel Photos



Plate # 1: Vegetated sediment wedges in aggraded section below railway crossing.



Plate # 2: Aggraded channel with eroding banks in densely habituated lower half of reach. Typical riparian forest community in predicted site series 08 (\$58) polygons.



Plate # 3: Elevated mid-channel bar with cattle fence crossing creek 1400 metres upstream of the creek mouth.

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Plate # 4: Extensive aggradation and revegetating bars at the mouth of the creek.



Plate # 5: Typical riparian forest community in predicted site series 08 (\$58) polygons.



Plate # 6: More complex section of channel due to LWD input. Typical riparian forest community in predicted site series 08 (\$58) polygons.



Plate # 7: Typical riparian forest community in predicted site series 07a polygons at toe of slope to left of photo.

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Plate # 12: Large clasts, minimal functional LWD, and extensive bars.

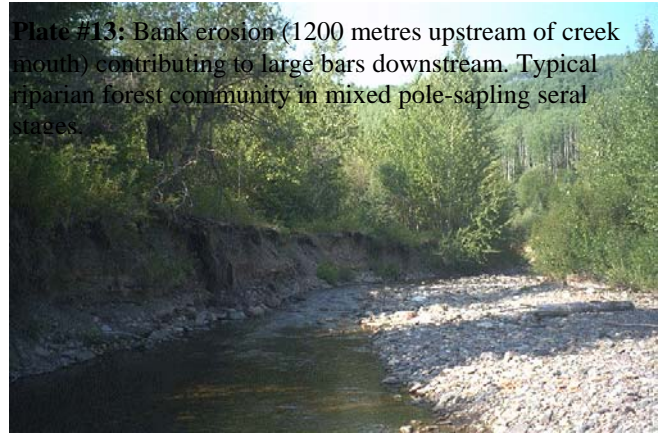


Plate #13: Bank erosion (1200 metres upstream of creek mouth) contributing to large bars downstream. Typical riparian forest community in mixed pole-sapling seral stages.

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Plate # 14: Ford crossing the creek in the bottom half of the reach, resulting in the loss of riparian vegetation and a source of sediment input.



Plate # 15: Bank erosion at farmer's field where riparian vegetation has been cleared to the stream bank.

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Plate #16: Elevated mid-channel bar in highly aggraded section of creek 400 metres upstream of the 2/3 reach break.



Plate #17: Slightly more stable channel in the upper half of the reach. Typical riparian forest community in predicted site series 10a polygons.



Plate #18: Large point bars in upper half of reach. Typical riparian forest community in predicted site series 10a polygons.

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Plate #19: Point source of sediment 600 metres upstream of 2/3 reach break where North Road closely parallels the creek.



Plate #20: Bank erosion below the North Road, 1000 metres upstream of the 2/3 reach break.

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Plate #_: Alluvial fan downstream of highway crossing - the result of an extremely high sediment bed load. This is a typical view of the riparian forest community in predicted site series_ polygons.



Plate #_: Typical riparian forest community in predicted site series_ polygons.

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Plate_: Downstream view of railway culvert 28 metres upstream of the Barren/Bulkley confluence. The remainder of the reach runs through private ranch lands.

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Plate #_: Typical view of channel with eroding bank and riparian forest community in predicted site series_ polygons in the lower end of the reach.

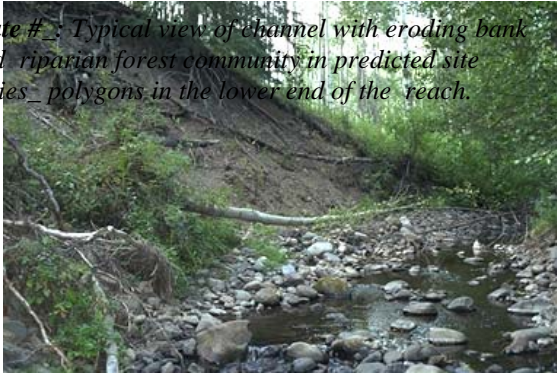


Plate #_: Typical view of channel and riparian forest community in predicted site series_ polygons in upper end of reach.



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Plate_: Private road fording the creek at 2940metres upstream of the reach 1/2 break



Plate_: Private road paralleling much of the upper half of reach 2.



Plate_: Cattle tracks and eroding banks contributing sediment to the reach, downstream of the powerline crossing.



Plate_: Dyking put in place by neighbouring land owners, to protect fence line during high flow period.

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Plate #_ : Typical channel and riparian at transition zone, 500m upstream of reach break, where creek becomes more complex.



Plate #_ : Bar stabilization by young cottonwood and willow. Typical of passive restoration occurring throughout the lower half of the reach.

Plate #_ : Typical riparian forest community in predicted site series_ polygons.



Plate #_ : Typical riparian forest community in predicted site series_ polygons.

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Plate # 38: Numerous log jams in aggraded channel at 1250 metres upstream of the Klo/Buck confluence. Typical riparian forest community in predicted site series 05 polygons.



Plate # 39: Large slide (leading to log jams and diversions) in area of extensive aggradation 800m upstream of mouth. Typical riparian forest community in predicted site series 06 polygons, above slide.



community in



Plate # 41: Bank erosion site. Typical riparian forest community in predicted site series 06 polygons.

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Plate # 42: Typical riparian forest community in predicted site series 05 polygons.



Plate # 43: Slightly aggraded section of channel. Typical riparian forest community in predicted site series 06 polygons.

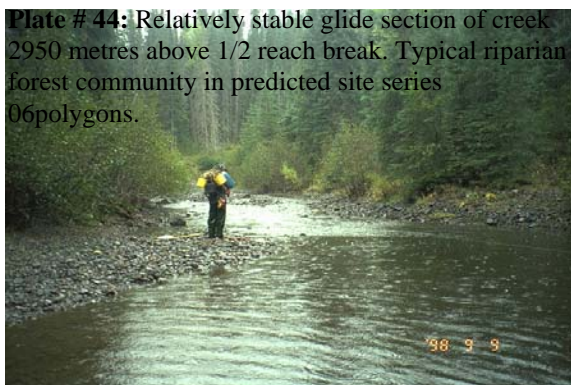


Plate # 44: Relatively stable glide section of creek 2950 metres above 1/2 reach break. Typical riparian forest community in predicted site series 06 polygons.



Plate # 45: Elevated mid-channel bars at 2700 metres above 1.2 reach break.

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Plate #46: Main channel braid in heavily grazed area in bottom half of reach. Typical riparian forest community in predicted site series 08 polygons.



Plate #47: Main channel braid in recolonizing gravel bar area. Typical riparian forest community in predicted site series 08 polygons.



Plate #48: Major aggradation and instability where channel becomes more confined at top of the alluvial fan. Typical riparian forest community in predicted site series 08 (\$58) polygons.



Plate #49: 250 metres upstream of Dungate/Buck confluence where channel becomes more stable. Typical riparian forest community in predicted site series 08 (\$58) polygons.



Plate #50: Typical riparian forest community in predicted site series 08 (\$58) polygons.



Plate #51: Typical riparian forest community in predicted site series 08 (\$58) polygons.

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Plate #54: Upstream of the 1/2 reach break where the channel becomes a bedrock controlled canyon. Note the trapping of wood.



Plate #55: Impassable falls signifying the a/b section break.

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Plate #56: Aggraded section of channel found below channelized area in lower reach. Typical riparian forest community in predicted site series 08 (\$58) polygons. Most of the LWD is clumped into jams.



Plate #57: Aggraded channel found below channelized area in lower reach. Typical riparian forest community in predicted site series 08 (\$58) polygons. Note extensive elevated mid-channel



Plate #58: Channelized section of the creek, characterized by minimal complexity, long riffles and a lack of wood.



Plate #59: Representative channel and riparian forest community in predicted site series 08 (\$59) polygons, typically seen in the upper half of the reach.

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Plate #_: Typical degraded (scoured, low complexity) channel found in the bottom end of the reach, and riparian forest community in predicted 08 (\$58) site series_ polygons.



Plate #_: Typical aggraded channel found in the bottom end of the reach (with some bedrock control)



Plate #_: Canyon section located in the bottom half of the reach.



Plate #_: Very aggraded section (A2) above 1170metres, with a lack of overstory on the right bank. Typical riparian forest community in predicted site series 08 (\$59) polygons.



Plate #_: Extensive lateral channel movement and bank erosion common in the upper mid-reach in areas of intense land clearing.



Plate #_: Avulsion located at top end of the reach (Abandoned channel to the right of photo) Representative shot of channel conditions and riparian forest community.

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Plate #66: Typical riparian forest community in predicted site series 06 polygons located at bottom end of reach.

Plate #67: Typical riparian forest community in predicted site series 07a polygons located at bottom end of reach.



Plate #68: Eroding bank located at bottom end of reach, the result of unstable flow regimes.



Plate #69: Typical channel characteristics found ~1400 metres upstream of the 3/4 reach break. Typical riparian forest community in predicted site series 07a (\$57) polygons.



Plate #70: Large elevated gravel bars located in mid-reach highly aggraded section of creek.

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Plate #75: Area of high volume LWD jams and lateral channel movement approximately 1 km upstream of the 4/5 reach break.

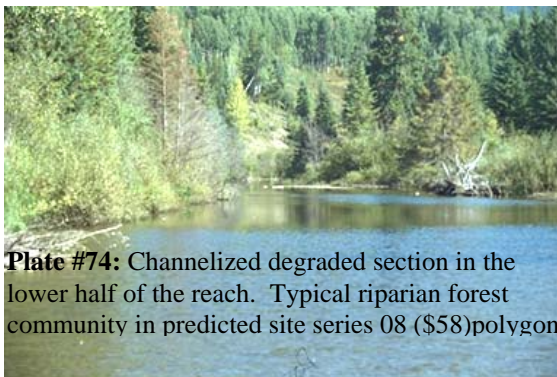


Plate #74: Channelized degraded section in the lower half of the reach. Typical riparian forest community in predicted site series 08 (\$58) polygons.



Plate #77: Section of heavy sediment wedge deposits, exposed bedrock, and eroding clay banks 2340 metres upstream of the 4/5 reach break.

Plate #76: Flooded channel past beaver dam at 1150 metres upstream of 4/5 reach break. Typical (\$57) site type riparian forest community in predicted site series 07a polygons on hillside in background.



Plate #78: Clumped LWD in degraded section of channel at 4610 metres upstream of the 4/5 reach break.

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Plate #82: Aggraded section of the reach with high level of lateral channel movement. Private land cleared for lawn on downstream right at 380metres upstream of the 5/6 reach break.



Plate #83: Typical riparian forest community in predicted site series 08 (\$58) polygons. Located 500 metres upstream of 5/6 reach break. Note eroding bank on downstream right.



Plate #84: Degraded section of channel at 3300 metres upstream of the 5/6 reach break. Typical riparian forest community in predicted site series 08 polygons.



Plate #85: Typical riparian forest community in predicted site series 06 (\$55) polygons in a selectively logged area of the Swiss Fire, located 3700 metres upstream of the 5/6 reach break.

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Plate #89: Large aggraded area 800 metres above the a/b section break. Note willow and alder recolonization on gravel bar deposits. Typical riparian forest community in predicted site series 07b polygons.



Plate #90: Log jam 900 metres above the a/b section break.



Plate #91: Large point bars in are of moderate-high lateral channel movement.



Plate #92: Riffle section in the upper half of the reach.

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Plate #93: Aggraded section of creek with slumping grass banks. Note close proximity of road in upper left corner background.



Plate #94: Road related bank slumpage occurring in the upper half of the reach.

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Plate #95: Mature cottonwood dominated riparian polygon, vital for supplying the largest functional LWD in the reach. Located at the bottom end of the reach in predicted site series 08 (\$59) polygons.



Plate #96: Outside bank erosion seen below area of historically cleared land in the lower end of the reach.



Plate #97: Typical riparian forest community in predicted site series 07a (\$57) polygons seen at 1800 metres above Bulkley/Morice River confluence on the hill in the background.



Plate #98: Ideal and typical cottonwood-spruce riparian conditions with functional LWD in foreground, located 1000 metres above Bulkley/Morice confluence.



Plate #99: Long riffle section of channel between 1200 - 1300 metres.



Plate #100: Typical riparian forest community and gravel bar recolonization at 8800 metres above Bulkley/Morice River confluence.

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Plate #104: Typical riparian forest community in predicted site series 08 (\$59) polygons with shrub-herb seral stage in foreground.



Plate #105: Bank failure below private land clearing and sediment wedge at 2500 metres above the 1/2 reach break.



Plate #106: Severely aggraded, braided section just upstream of railway crossing at 4300 metres upstream of 1/2 reach break.



Plate #107: Typical riparian forest community in predicted site series 07a polygons at toe of hillside in foreground.



Plate #108: Aggraded channel, extensive bank erosion and minimal riparian forest seen above the Knockholt Bridge.



Plate #109: Extensive log jam in the upper half of the reach.

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Plate #110: Deep, low gradient depositional section of channel characterized by long glides and pools and typical riparian forest community. Located 18000 metres above the 1/2 reach break.



Plate #111: Typical hillside riparian forest community in predicted site series 07a polygons.

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Plate # 120: Degrading, well incised channel upstream of the McQuarry Creek confluence. Typical riparian forest community in predicted site series 08 (\$59) polygons.

Plate #121: Section of reach complexed with boulders located 4500 metres upstream of the 2/3 reach break.



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Plate #124 : Riffle section of lower half of reach, with bank failure on upstream right bank. Typical riparian forest community in predicted site series 08 (\$59) polygons.