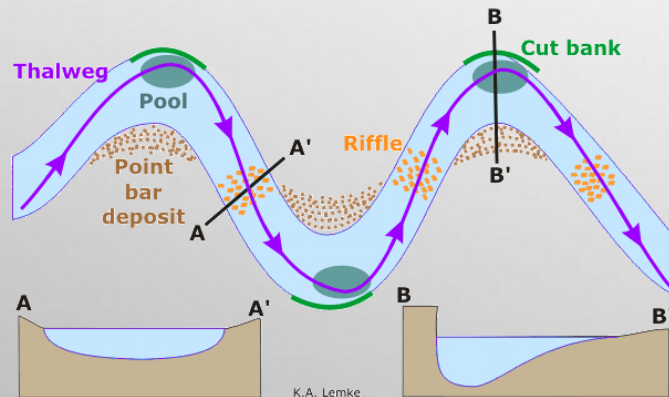
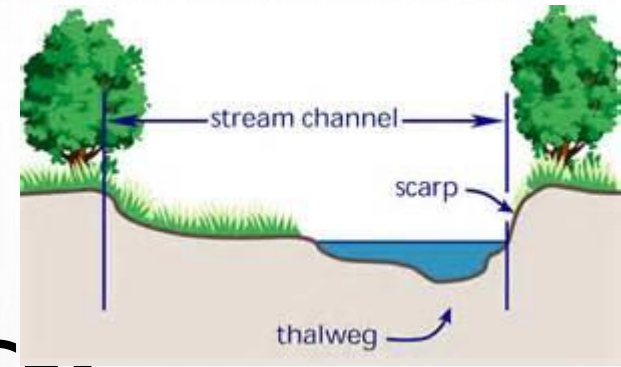


# EXPLORING THE GEOMORPHIC DIFFERENCES BETWEEN AND RIPARIAN REQUIREMENTS OF FISH BEARING AND NON FISH BEARING CHANNELS



# OBJECTIVES SET BY GOVERNMENT FOR WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS

- **8** THE OBJECTIVE SET BY GOVERNMENT FOR WATER, FISH, WILDLIFE AND BIODIVERSITY WITHIN RIPARIAN AREAS IS, WITHOUT UNDULY REDUCING THE SUPPLY OF TIMBER FROM BRITISH COLUMBIA'S FORESTS, TO CONSERVE, AT THE LANDSCAPE LEVEL, THE WATER QUALITY, FISH HABITAT, WILDLIFE HABITAT AND BIODIVERSITY ASSOCIATED WITH THOSE RIPARIAN AREAS.



# WATER QUALITY

- CAN BE AFFECTED BY CONTAMINANTS AND THAT INCLUDES SEDIMENT
- SEDIMENT DERIVED FROM UPSLOPE AND INSTREAM SOURCES
- THE INSTREAM SOURCE IS THE CHANNEL
- CAN BE LOCAL OR FROM DIRECT TRIBUTARY
- CAUSES INCLUDE:
  - AN INCREASE IN DISCHARGE, OR
  - DESTABILIZATION





# REGULATIONS SAY

Channel width (m)	Riparian Class	Riparian Management Area (metres)	Riparian Reserve Zone (metres)	Riparian Management Zone (metres)
100+	S1-A	100	0	100
20+	S1-B	70	50	20
5 - 20	S2	50	30	20
1.5 - 5	S3	40	20	20
0 – 1.5	S4	30	0	30
3+	S5	30	0	30
0 - 3	S6	20	0	20

- 52(2) – RETAIN ENOUGH IN RMZ TO MAINTAIN STABILITY IF DIRECT TRIBUTARY
  - ABILITY TO TRANSPORT TO HIGHER CLASS (LG S6, S5)
- 47(5) – RMZ SHOULD INCLUDE ACTIVE FLOODPLAIN
  - AREA COMPOSED OF ALLUVIAL MATERIAL FLOODED FROM TIME TO TIME (Q100)
- 54 – DON'T DESTABILIZE THE FAN – ON THE COAST ANYWAY...
  - INTERIOR FANS = COASTAL FANS....BY THE WAY

# HE WAS GOING TO TALK ABOUT FISH STREAMS?

- WHY DO THE REGULATIONS REQUIRE RESERVES ON FISH BEARING CHANNELS ONLY?
- SURVEY SAYS?











S3

S5





## SO WHAT'S THE DIFFERENCE AGAIN?



- THERE IS NO DIFFERENCE FROM A GEOMORPHIC OR RIPARIAN FUNCTION PERSPECTIVE SO WHY DO WE MANAGE THEM DIFFERENTLY?
- MESSAGE – FIND THE LARGE S6 AND S5 CHANNELS IN PARTICULAR, AND THEIR ACTIVE FAN AND FLOODPLAIN AREAS.....AND PROTECT THEM....BECAUSE WE'RE SUPPOSED TO!