What is Stream Restoration?

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Stream Restoration Definition

- Stream restoration is the re-establishment of the ***GENERAL STRUCTURE***, ***FUNCTION*** and ***SELF-SUSTAINING*** nature of the stream network to an ***APPROXIMATION*** of pre-disturbance conditions.
- Restoration includes a ***BROAD RANGE*** of treatment techniques that can be applied to a ***BROAD RANGE*** of site conditions at both the ***WATERSHED AND REACH SCALES***.

Can be Big.

Can Be Small.

Headwater Channels?

Mid-Valley Channels?

Valley Bottom Channels?

Stable Banks?

Eroding Banks?

Somewhere In-between?

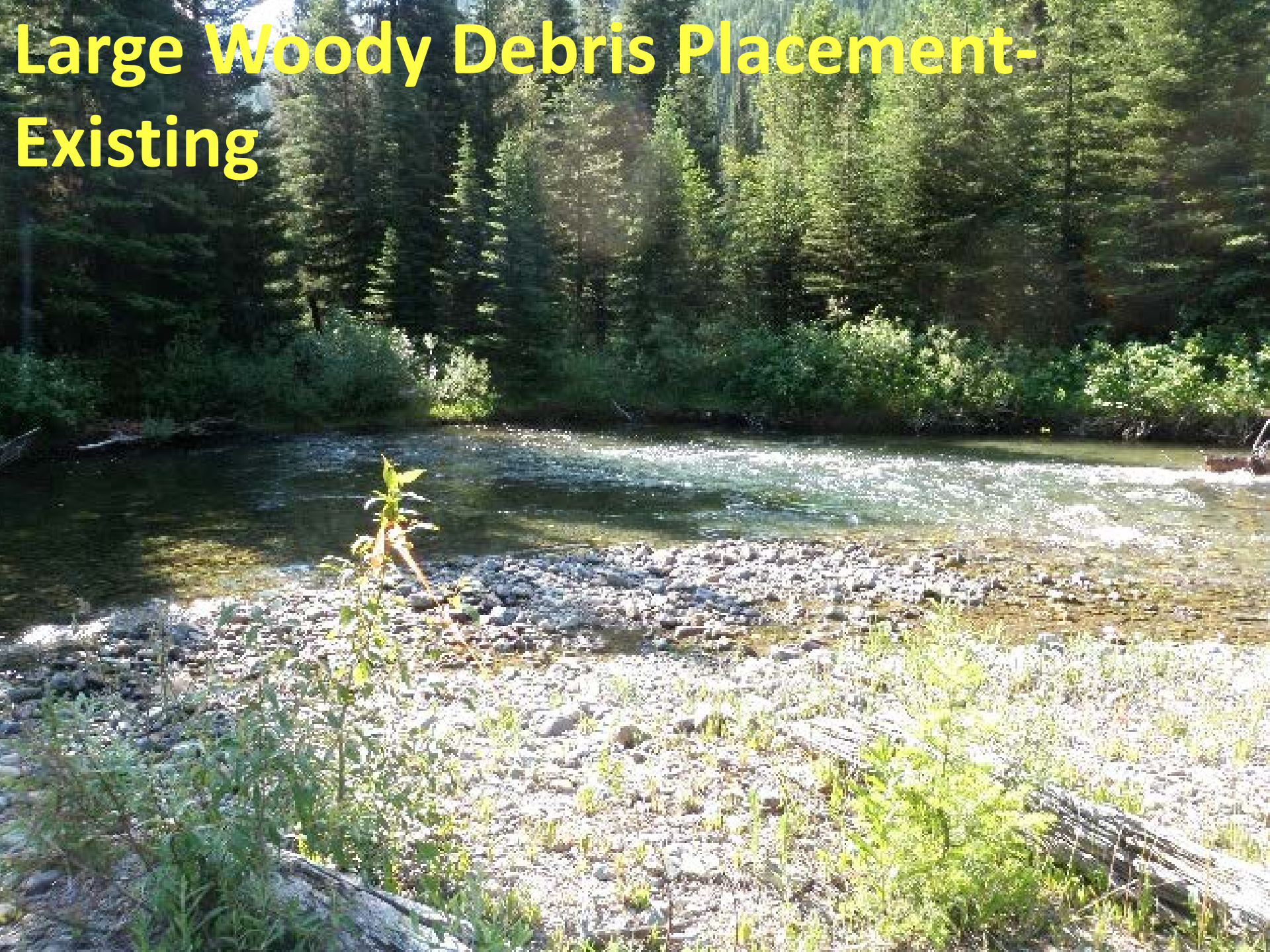
Degrading?

Aggrading?

Straightened?

Stream Restoration Treatments

- Large Woody Debris Placement.
- Bank Restoration/Stabilization.
- Full Channel Reconstruction.
  - Priorities 1-4.
  - Multiple Components (Channel Dimension, Pattern, Profile, Grade Control, Geomorphology, Habitat, Riparian, etc.).


Large Woody Debris Placement-
Existing

Large Woody Debris Placement- As Built

Large Woody Debris Placement-
Existing

Large Woody Debris Placement-
As Built

Bank Restoration-
Existing

Bank Restoration-
During Construction

Bank Restoration-
As Built

Bank Restoration- Three Months After

Bank Restoration-
Existing

Bank Restoration-
As-Built

Bank Restoration-
3 Years After

Full Channel Reconstruction- Existing

Full Channel Reconstruction-
As Built

Full Channel Reconstruction- Existing

Full Channel Reconstruction- As Built

Conclusions

- **Stream Restoration is a *BROAD* term that applies to *MULTIPLE* stream types with a *DIVERSE* range of site conditions, that can be influenced by an *ARRAY* of independent watershed variables.**

- **Stream Restoration requires consideration of a *VARIETY* of site-specific treatment techniques and likely consultation with a *STREAM RESTORATION SPECIALIST (SRS)*.**

Questions?