

Little Pimmit Run at Chesterbrook Road Stream Restoration & Sanitary Sewer Realignment

Department of Public Works and Environmental Services
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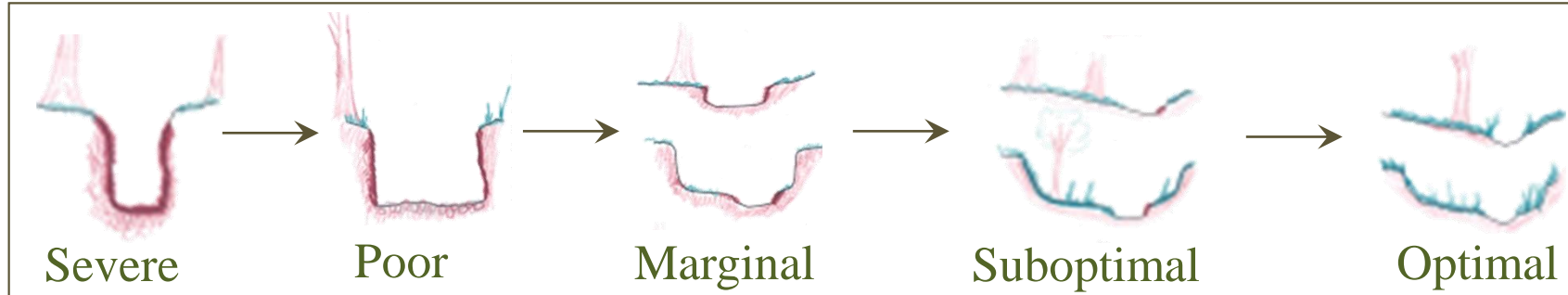
Meeting #4 Agenda

- Stream Priority Refresher
- Value Engineering Alternatives
- Phase I plans
- Project Schedule



Channel Erosion

Natural Channel Evolution



Evolutionary process considers the channel's incision, bank stability, & sedimentation load (aggrading or degrading)



Source: WSSI

Severe
Channel Condition



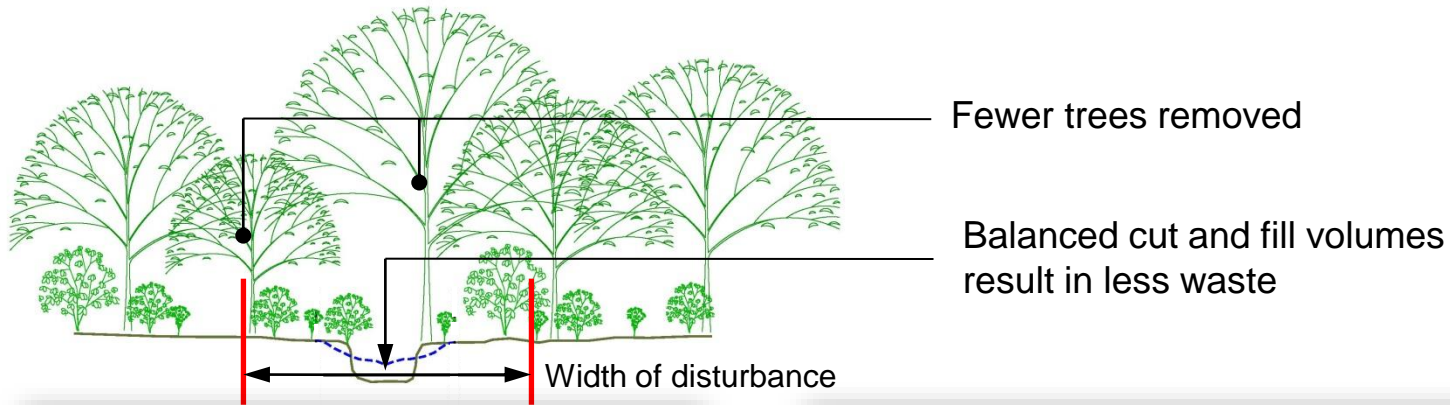
Source: WSSI

Optimal
Channel Condition



Restoration Approaches

Priority 1 Restoration - Raise stream to reconnect with the floodplain. Low stress, high stability.



Snakeden Branch Reach 2 – Priority 1 Restoration

Restoration Approaches

Priority 2 Restoration – Excavate floodplain at lower elevation. Low stress, high stability.

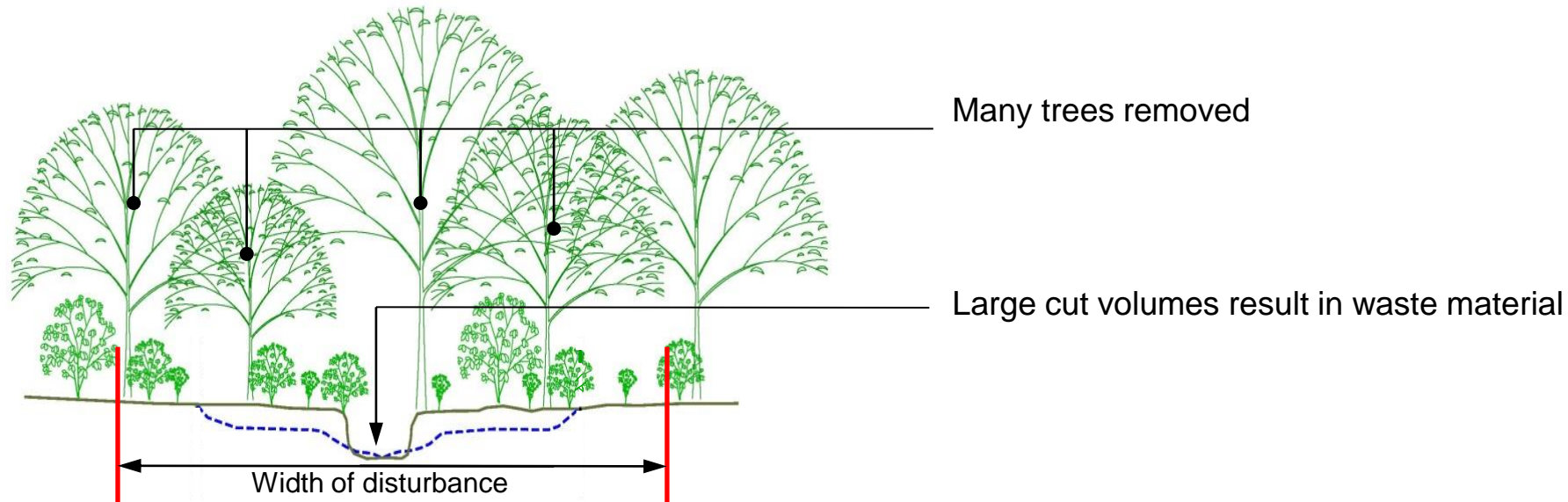


Image Source: WSSI

Restoration Approaches

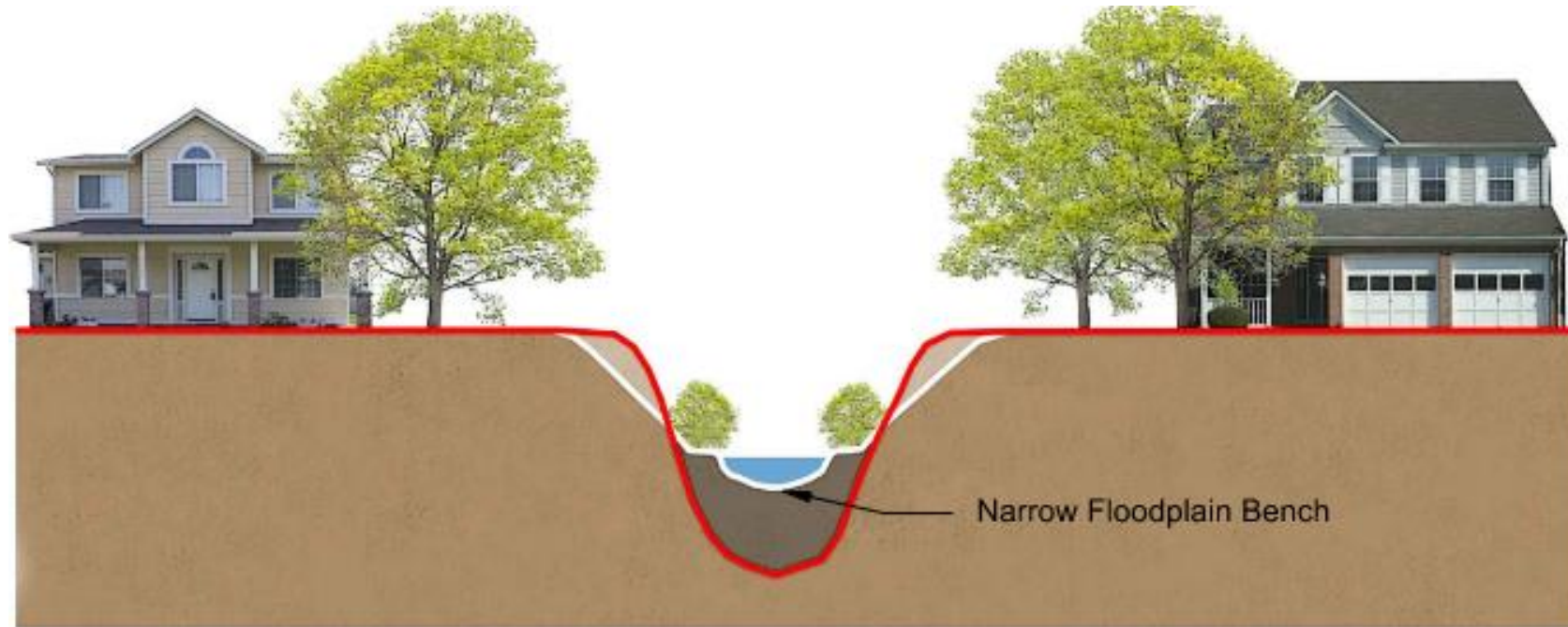


Image Source: WSSI

Priority 3 Restoration – Confined stream valleys.
Greater stress requires more structure/armoring.

Restoration Approaches

Priority 4 Restoration – Stabilize in-place. No water quality credit generated and may require stream mitigation or credit purchase.



Image Source: WSSI



Image source: stormwater.com/sewers-drainage-systems/growing-pains

Review Value Engineering Alternatives & Review Design Plan



Project Schedule

- Phase II virtual meeting – Mid-to-late July
 - Concept revision – 8 weeks
- Revised concept submission – Late September
- Community meeting on revised concept – Mid-October



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Website: <https://www.fairfaxcounty.gov/publicworks/little-pimmit-run-chesterbrook-stream-restoration-sewer-alignment>

