

## Sediment Monitoring Update

7/17/14

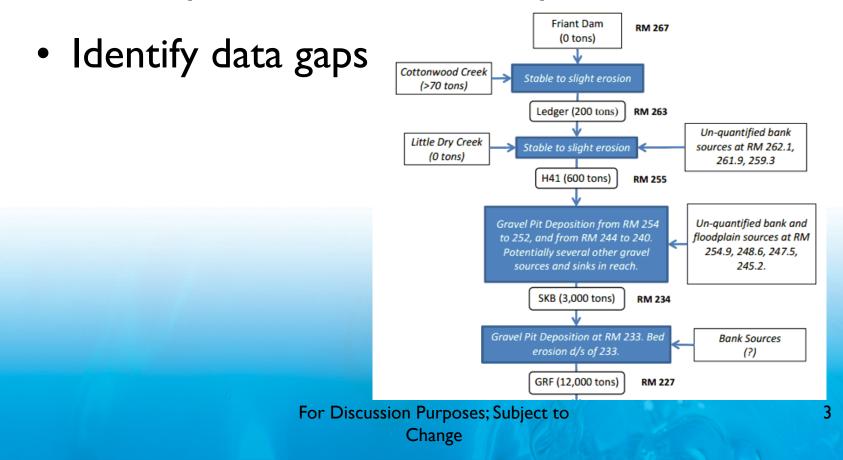
For Discussion Purposes; Subject to Change



- Sediment Budget
- 2014 monitoring
- Monitoring strategy



- Summarize sediment transport data
- Conceptual sediment transport framework





- WY2011 had substantially higher transport in all size classes compared to WY2010 & WY2012
- Nearly all gravel transport was <32mm
- Gravel transport was episodic
- Gravel transport in pools unlikely below 8,000 cfs
- Cottonwood and Little Dry may contribute sand, but gravel pits interrupt transport
- Significant sand erosion between Gravelly Ford and Skaggs Bridge, transported into Reach 2A



- No monitoring due to no Restoration Flows
- Remote sensing:
  - Topographic LiDAR
  - Bathymetric LiDAR
  - Aerial imagery



- Baseline: transects for suspended, bedload, bed material.
  - Continue to inform sediment budget
  - Mobilize only during flood flows
  - Prioritize Reach 2A-2B



- Tributary sand sources
  - Keep waiting for tributary storm flows
  - Some automated equipment
- Invest in continuous measurement in gravel reaches
- Update remote sensing periodically

