

Enhancing Streamflows Through Shallow Aquifer Recharge - Technical Meeting

Wednesday, October 21, 2015

Montana Wild Center, 2668 Broadwater Ave, Helena, MT

9:00 Introductions / Purpose and Goals of Meeting, (Michael Downey – Moderator – DNRC)

9:20 Shallow Aquifer Recharge Overview – What it is and how it works; the importance of natural systems, floodplains, and stream/floodplain connectivity. Distinguish between SAR and other tools like Aquifer Storage and Recovery (Bill Woessner, Hydrologist, Univ of MT)

10:00 Break

Shallow Aquifer Recharge Methods – Natural /Passive

10:20 Stream Channel Restoration and Practical Applications to Enhance SAR (Nathan Korb, TNC)

10:40 Enhancing Base Flows and Stream Channel Morphology through Beaver Analogue Structures (Jeff Burrell, Wildlife Conservation Society)

Shallow Aquifer Recharge / Depletion – Activities Affecting SAR and Baseflows

11:00 Irrigation practices and the use of Irrigation Infrastructure for SAR (John LaFave, Ginette Abdo, MT Bureau Mines and Geology)

11:20 Land-Use Considerations – Impacts of Development on Shallow Aquifer Recharge (Rob Van Kirk – Henry’s Fork Foundation)

12:00 Catered Lunch from Chili Obrien’s available for purchase on-site for \$9.00.

Implementation Strategies

1:00 Practical Mapping, Channel migration and floodplains (Karin Boyd – Applied Geomorphology)

1:20 Measuring Success – Metrics for Monitoring and Evaluating Outcomes of SAR Projects (Rod Caldwell, USGS)

1:40 Break

Policy Considerations

2:00 Floodplain and Riparian Management Constraints (Traci Sears, DNRC, Lynda Saul, DEQ)

2:30 Water Right Implication of SAR Projects (Jim Nave, DNRC)

3:00 Next steps – Where do we go from here; Wrap-up (Michael Downey, Moderator-DNRC)

4:00 Adjourn