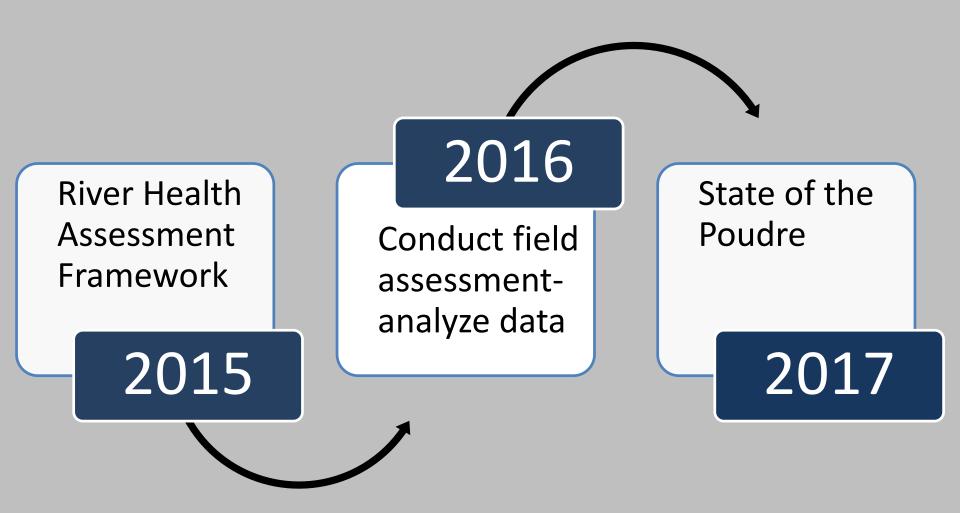


River is the nexus

How healthy is our river?

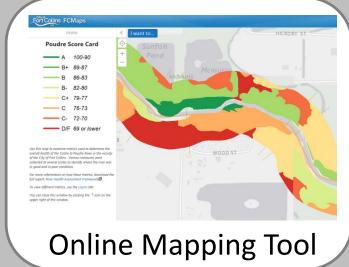


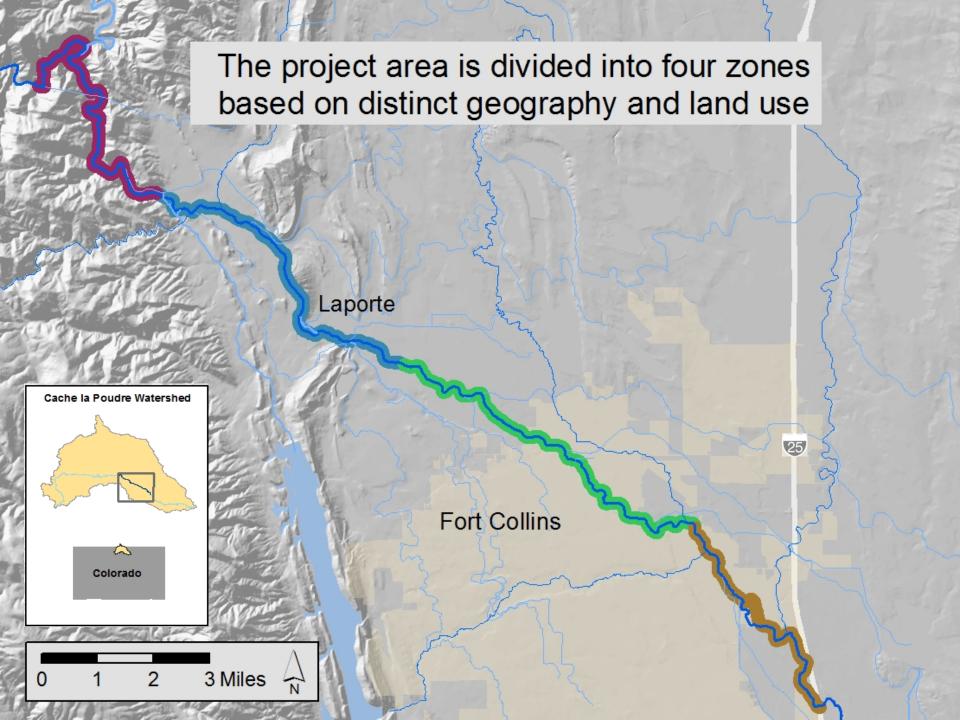
Public release end of March 2017 - Open house

To reach various audiences the State of the Poudre results will be available in three formats

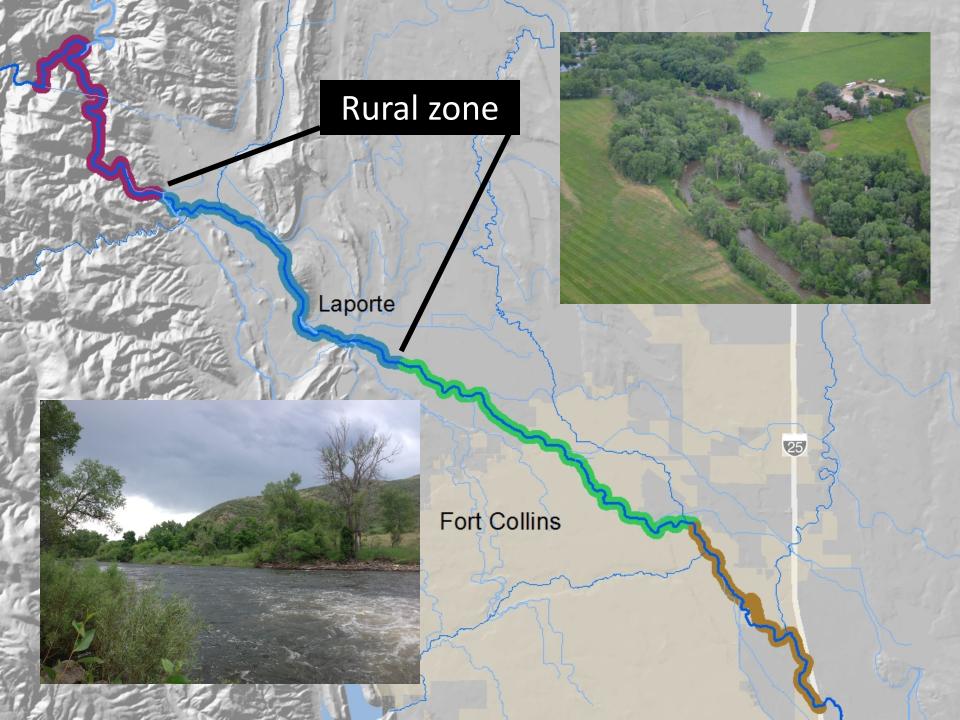




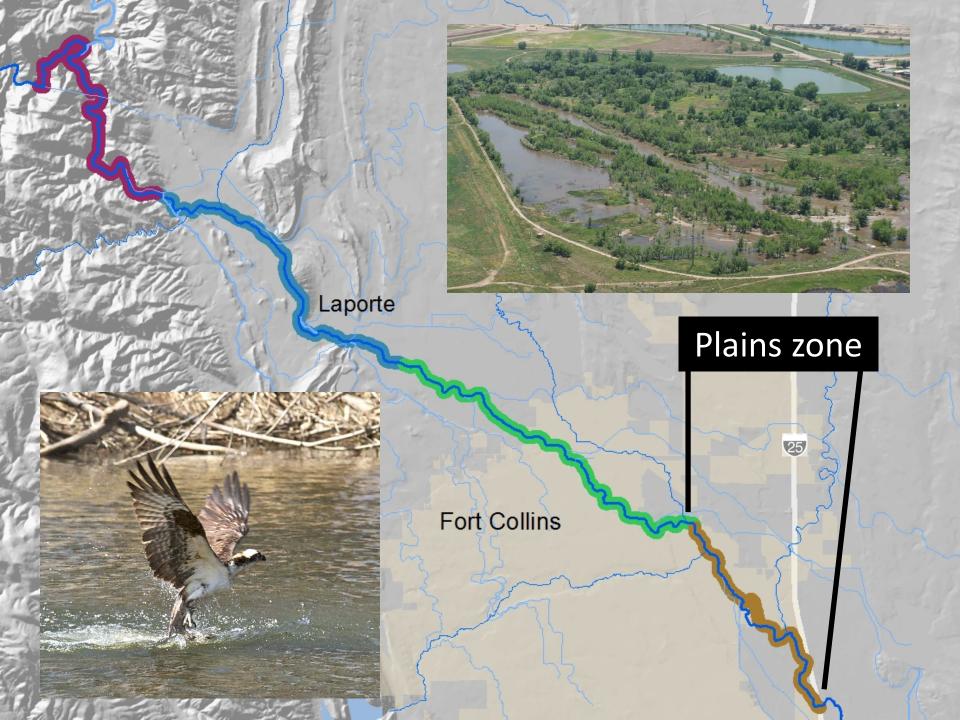














River Health Indicators

Physical





Chemical

Biological



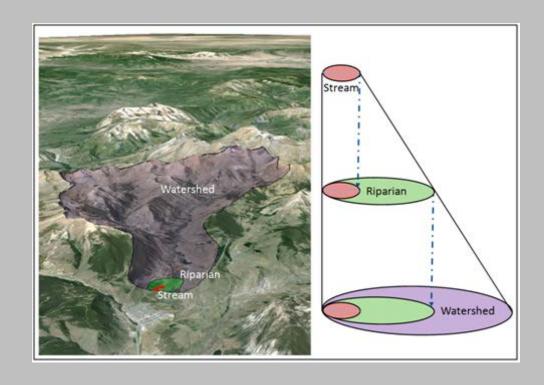






Variables within river ecosystems function at various scales













<u>Metrics</u>

Flow regime Peak flows, base flows, rate of change

Sediment Land erosion, channel erosion, transport

Water quality Temperature, nutrients, pH, dissolved oxygen

Resilience

Floodplain extent

Veg. structure, habitat connectivity, contributing area

Riparian condition

River form

Floodplain connectivity

Dynamic equilibrium, recovery potential

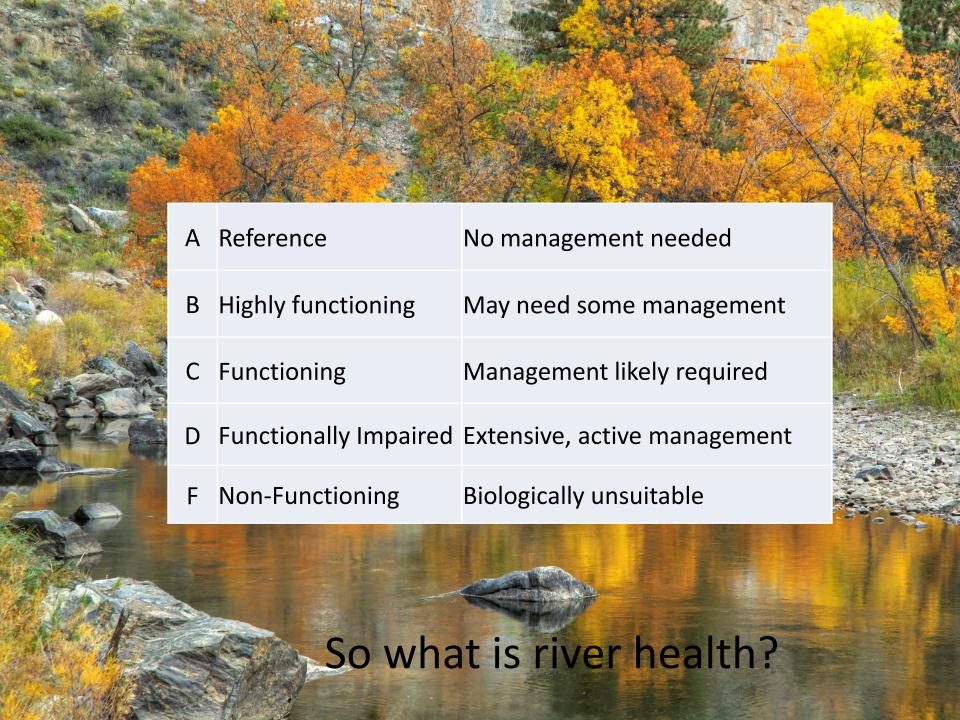
Planform, dimension, profile

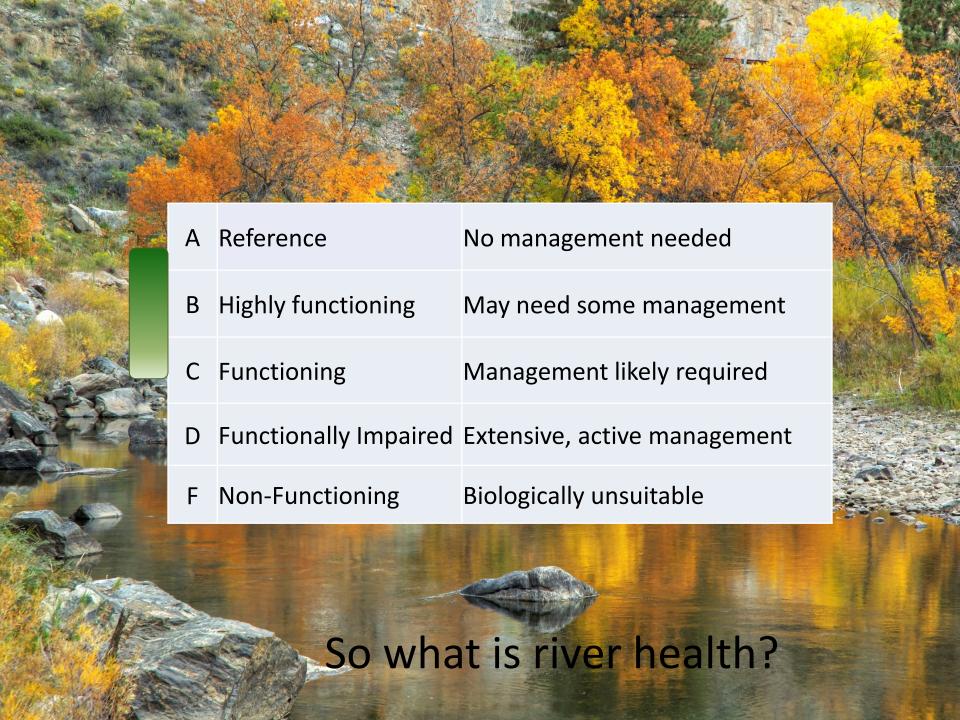
Physical structure Coarse scale, fine scale

Aquatic life Aquatic insects, native fish, trout, habitat connectivity

Multi-pronged approach allows for holistic stem to stern reporting







Results?



Overall- Poudre is functional but not highly functional

Results for metrics/reaches range from good to poor (impaired) function

Results are reaffirming themes we already know while also revealing new lessons

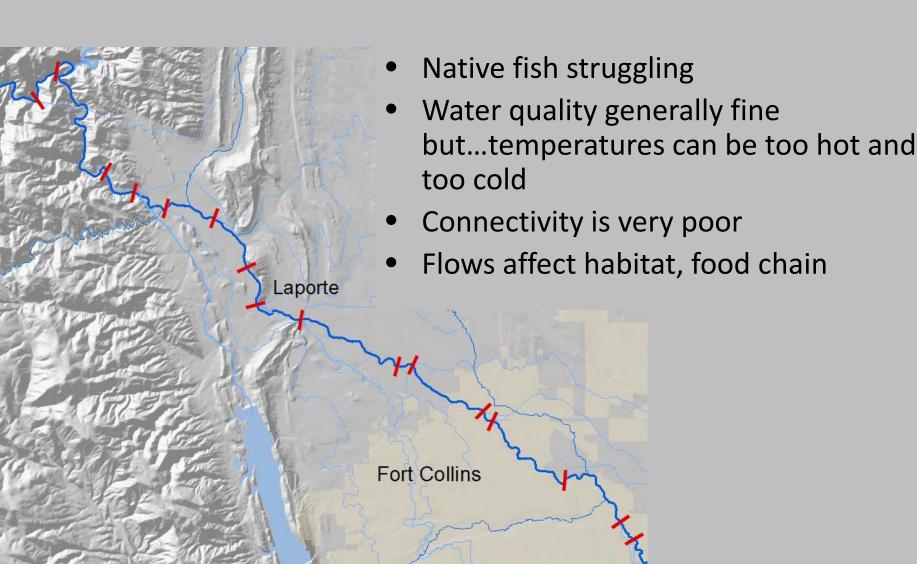
- Highly altered river, physical conditions change frequently
- Riverside forests are reliant on connection to river
- Management actions make a difference
- Time!!! Restoration, resilience, recovery





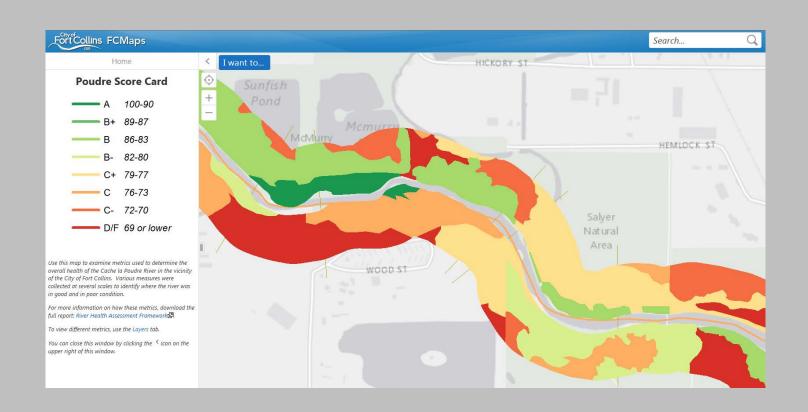


Results are reaffirming themes we already know while also revealing new lessons



For some metrics there is <u>a lot</u> of local variability Reach averages often don't always tell the whole story







The Poudre changes character

Possible Applications











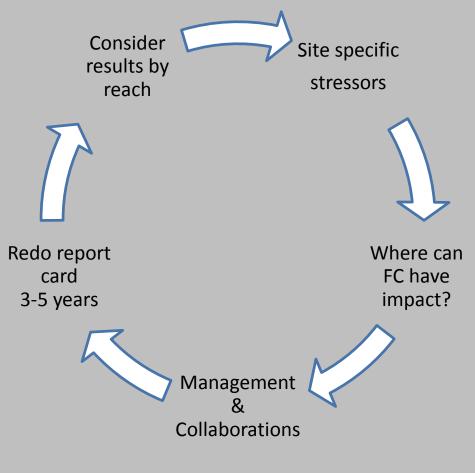


- Meet internal goals for supporting watershed services
- Communication platformcommon perspective
- Inform management

 a benchmark tradeoffs
- Linking data to conversations
- Local and regional collaborations

What's next?

What's next?

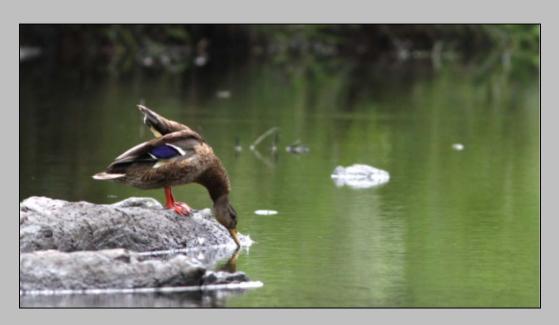


Internal evaluation:
Does this help us meet our goals?
Long term funding options?



State of the Poudre

How healthy is your river?







Thank you!

Please come find us with questions

