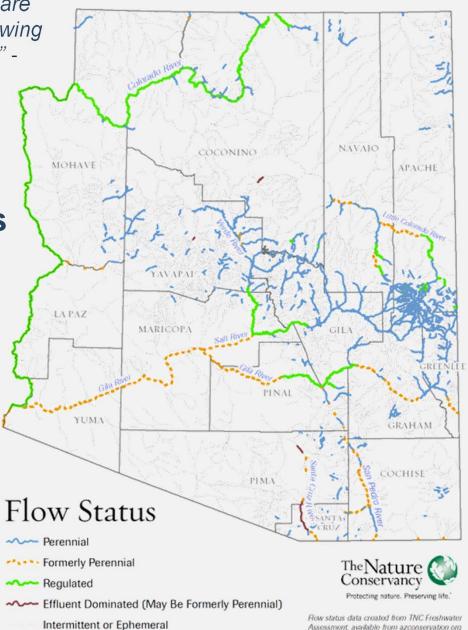


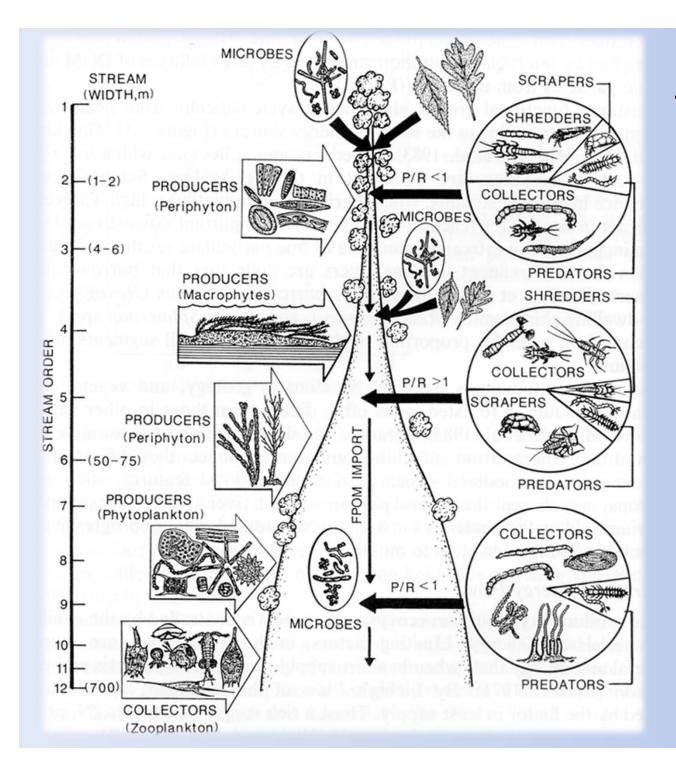
"Deconstruction does not show that all texts are meaningless, but rather that they are overflowing with multiple and often conflicting meanings." -Jack Balkin, 1995

The talk . . .

1) Discuss the basis of EPA's model watershed permitting program

- 2) Examine the draft
 Albuquerque /Middle Rio
 Grande MS4 Permit
- 3) Talk about how and why this idea might migrate west.





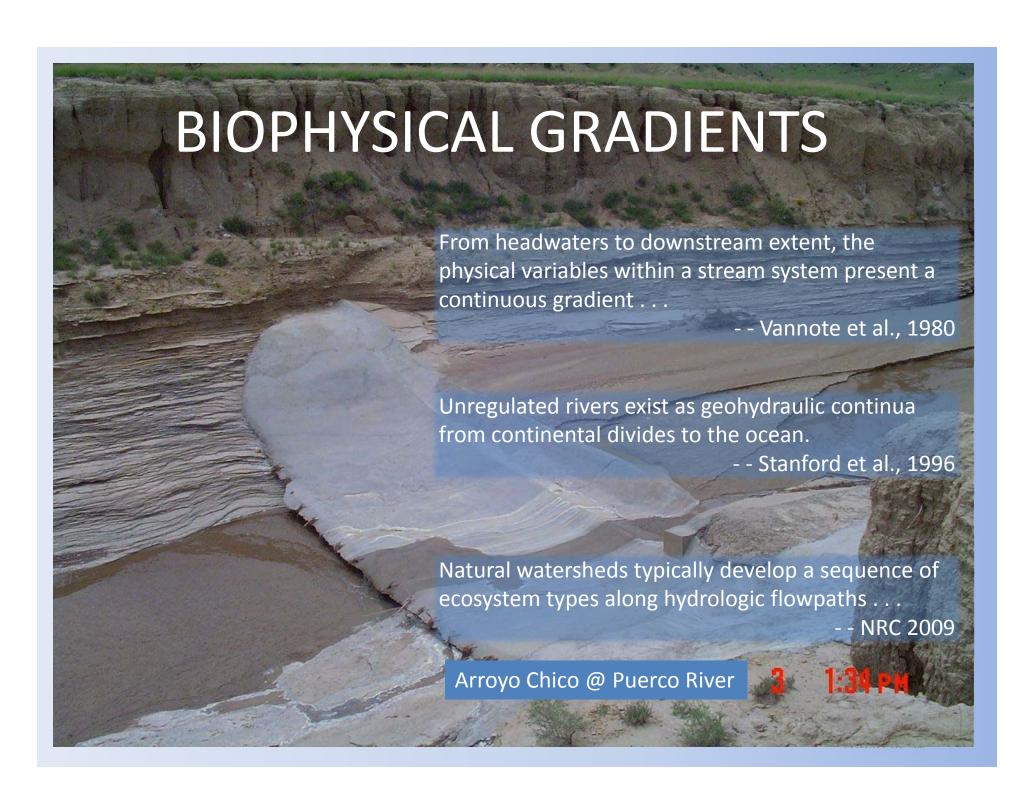
The theory . . .

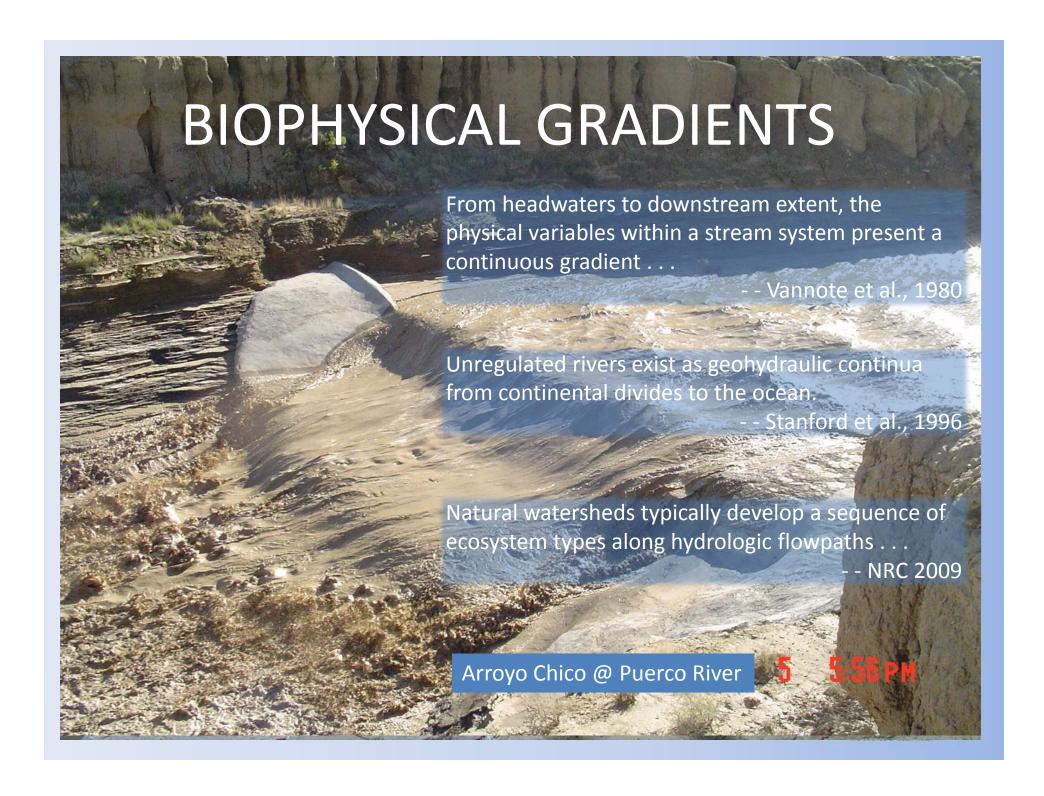
A well-ordered watershed . . . is a smoothly varied watershed.

Easy to model, even easier to protect



"the science of dean water"





The 2009 NRC Report

- EPA's water's current approach to regulating storm water is unlikely to produce an accurate or complete picture of the extent of the problem, nor is it likely to adequately control storm water contribution to water body impairment.
- Convert the current piecemeal system into a watershed-based permitting system.
- Flow and related parameters like impervious cover should be considered for use as proxies for storm water pollutant loading.





Energy Independence and Security Act of 2007, aka EISA



Theodore Roosevelt Island, Washington D.C.

SEC. 438. STORM WATER RUNOFF REQUIREMENTS FOR FEDERAL **DEVELOPMENT PROJECTS.** The sponsor of any development or redevelopment project involving a Federal facility with a footprint that exceeds 5,000 square feet shall use site planning, design, construction, and maintenance strategies for the property to maintain or restore, to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the temperature, rate, volume, and duration of flow.



EPA Watershed Permitting Pilots

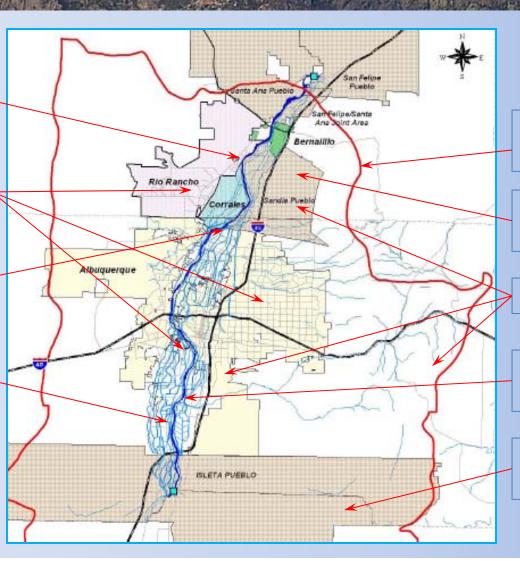


Rio Grande-ABQ (Upper Reach)

Urbanized Areas

North Diversion Channel outfall

Rio Grande-ABQ (Lower Reach)



Watershed Boundary

Sandia Pueblo (Separate WQS)

Rural Areas

Wastewater Plant Outfall

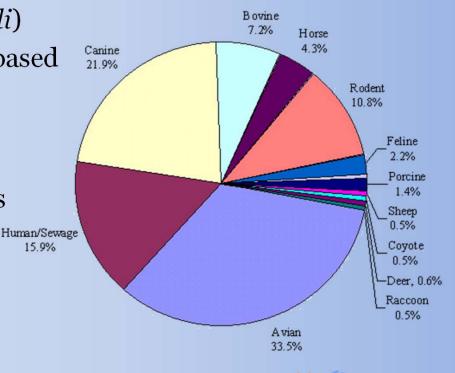
Isleta Pueblo (Separate WQS)

Total Maximum Daily Load determinations

- ♦ Completed by NMED in 2010 (E. coli)
- Determined assimilative capacities based on water quality standard
- Established capacities for non-point source bacterial discharges
- Identified probable bacterial sources
- Suggested pollution reduction alternatives

Additional impairments from

- Temperature
- PCB in fish tissues, sediments
- Dissolved oxygen



Ha ayampa

"the science of dean water"

A ociates

So what are the elements of the permit?

Accumulates all the regulated entities under a single permit

- Phase I permitees
- Phase II permitees
- New permitees (2010 Census)
- Indian communities

A general permit approach using a Notice of Intent (NOI)

"The proposed permit is flexible so that the development and implementation of a joint SWMP among several permittees can be achieved in cooperation with public agencies or private entities."



On the issue of water quality standards . . .

"Section 402(p)(3)(B) of the (Clean Water) Act is silent on the issue of compliance with water quality standards for MS4 discharges."

and

"Where a TMDL addresses storm water discharges from an MS4 or other regulated storm water discharge, NPDES permits must be consistent with assumptions and requirements of the Waste Load Allocations in the TMDL. EPA expects that most water quality-based effluent limits for NPDES-regulated MS4 discharges will be in the form of Best Management Practices, and that numeric limitations will be used in rare instances."



Flow as a proxy for pollution . . .

"All new and redevelopment projects must design, implement and maintain a system of controls that will prevent an increase in the one-hundred-year, two-hour peak runoff, a change in the time of the peak, or an increase in the total runoff from its pre-development values and manage pre-development runoff values on site."

and

"This performance standard must be implemented and enforced via an ordinance and/or other enforceable mechanism(s)."



Endangered Species Act (ESA) Requirements

"EPA has included requirements to ensure actions required by this permit are not likely to jeopardize the continued existence of any currently listed as endangered or threatened species or adversely affect its critical habitat."

Monitoring and reporting

"Permittees may choose either Option A (Individual Monitoring program) or option B (Cooperative Monitoring Program)."

Reporting can also be cooperative

No annual load calculation.



The raw and the cooked . . .

"Certain categorical opposites drawn from everyday experience . . . can serve a people as conceptual tools for the formation of abstract notions and for combining these into propositions." - Claude Levi-Strauss



Cooperation, flexibility and mutual effort **opposes** political rivalry. inequities in public funding and lawsuits.

- Tribes vs. States
- City vs. County
- Public support for storm water utilities is very soft in the West.
- the Tucson Green streets experience
- Virginia DOT v. EPA "Stormwater runoff is not a pollutant."



. . . and the Trickster.

"The trickster is a mediator. Since his mediating function occupies a position halfway between two polar terms, he must retain something of that duality—namely an ambiguous and equivocal character.."

- Claude Levi-Strauss

And then there is East vs. West!

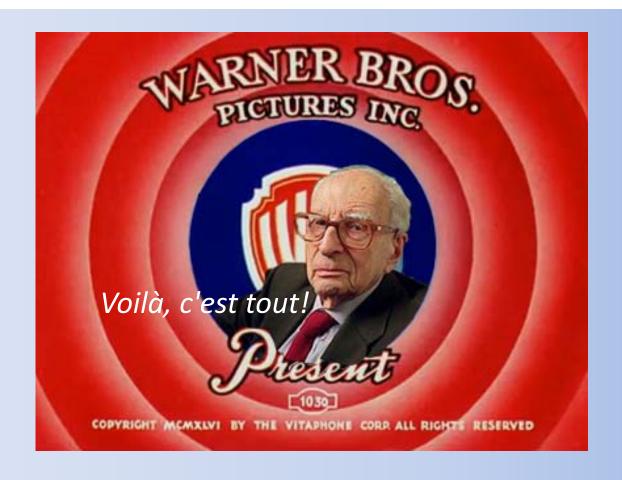
"Analysis of precipitation data indicates that 90% of the 24 hour (or less) rainfall events are 1 inch or less."

Really? Conflation of rainfall with runoff.

Need a Trickster to mediate the opposites?







http://www.epa.gov/region6/water/npdes/sw/ms4/#riograndewatershed

