Engaging Landowners in Conservation Efforts for Water Quality Improvement For Small Water Systems

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Clarification of Public Water Systems

Community - primary residence

Municipal Authority, Borough/City, Corporation, Homeowners' Association, Etc.

Non-Transient Non-Community - repeat customers

Hospitals, Schools, Factories, Office Buildings

Transient Non-Community - passing through

Gas Station (Turkey Hill/RCPP), Campground, State Park, Rest Area

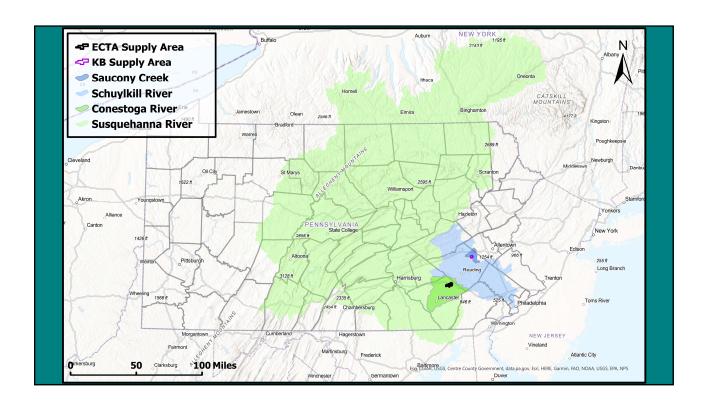
A Few Foundations of

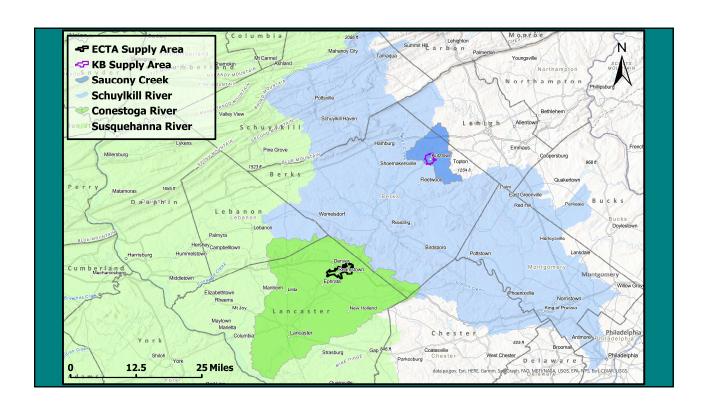
Conservation Partnership

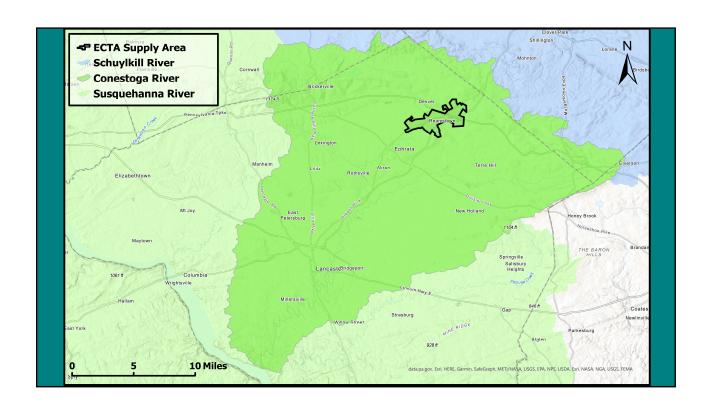
- Know Your Sourcewater Protection Area
 - Up-to-date Sourcewater Protection Plan
- Get to Know Your Neighbors & Be a Neighbor
- Discover Strategies That Can Help With Management Goals
- Build The Right Partnerships
 - Community members, Conservation Partners, Water Systems

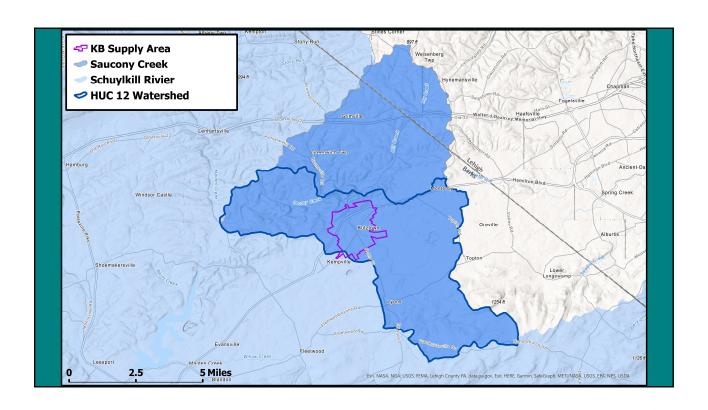
An Example of Success in CWS Partnership

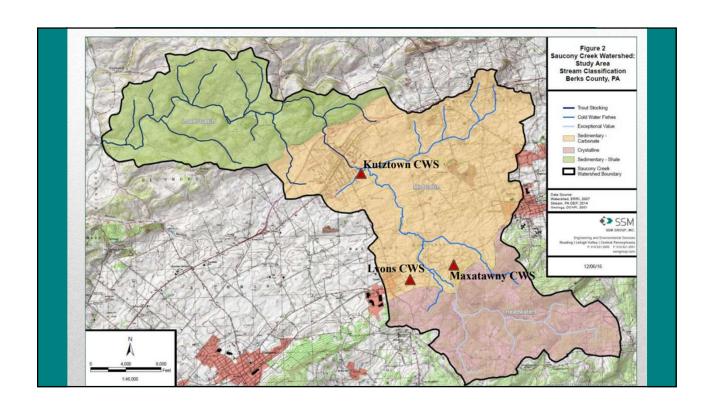


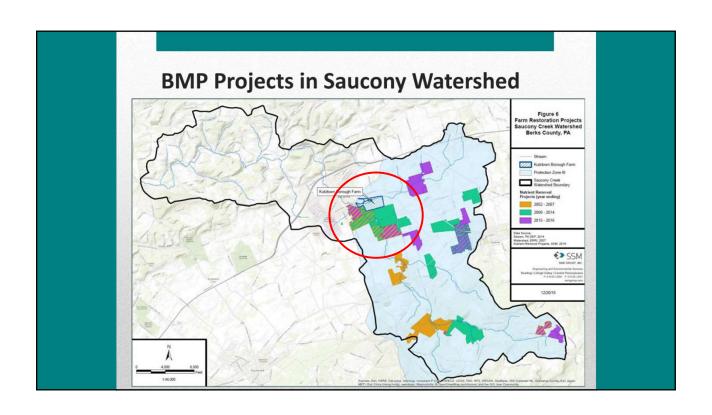




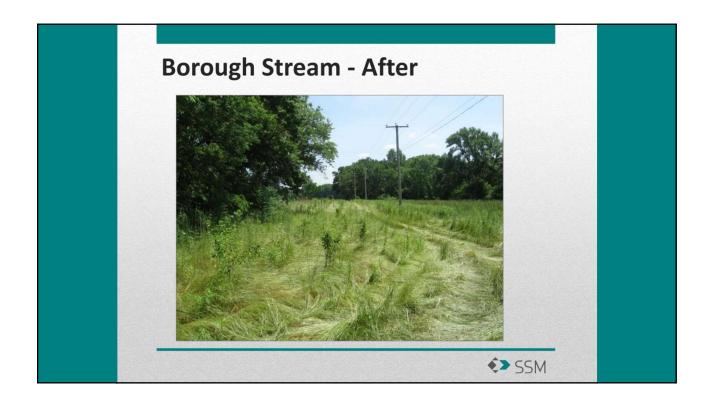










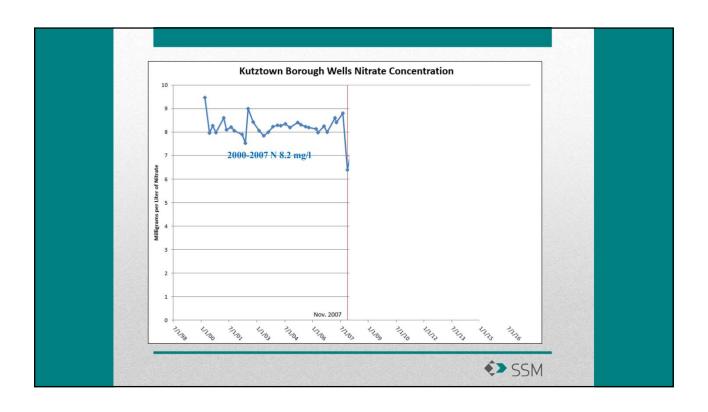


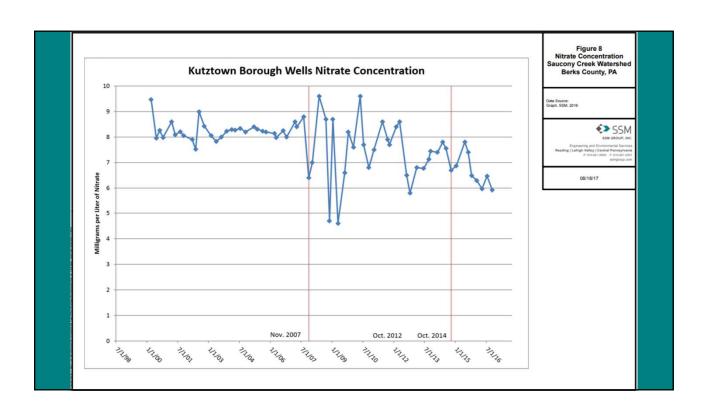












Saucony Creek

Financial Support Conduits & Key Partners

- · Berks Nature
- Berks Watershed Restoration Fund
- · Schuylkill River Restoration Fund
- Schuylkill Action Network
- · Schuylkill River National & State Heritage Area
- Berks County Conservation District
- Spotts, Stevens, McCoy, LLC
- Reading Area Water Authority
- PA DEP
- Natural Resources Conservation Service

- Western Berks Water
- PA American Water
- Stroud Institute
- · City of Philadelphia
- · Partnership for the Delaware Estuary
- · Reading Area Water Authority
- Stowell Associates
- Kutztown Borough
- Aqua PA

Raw Water Treatment Costs = Motivation

Capital Investment

- Treatment Components
- Additional Treatment Processes
- Engineering Design Fees

Regulatory / Sampling Costs

- Regulatory Sampling
- Sample Reporting
- Additional Permitting

Water Treatment Process

- Chemical costs
 - Coagulants, Oxidizers
 - Brine Salt, Filter Waste Stream
- Human Resources Costs
 - Additional Certifications
 - Additional Operator Training
 - Additional Office Hours
- Pump / Energy costs
- Wastewater Treatment

Relationships will be the

key to success through conservation.

- 1. Landowners
- 2. Similar Systems / Municipalities
- 3. Conservation Partners

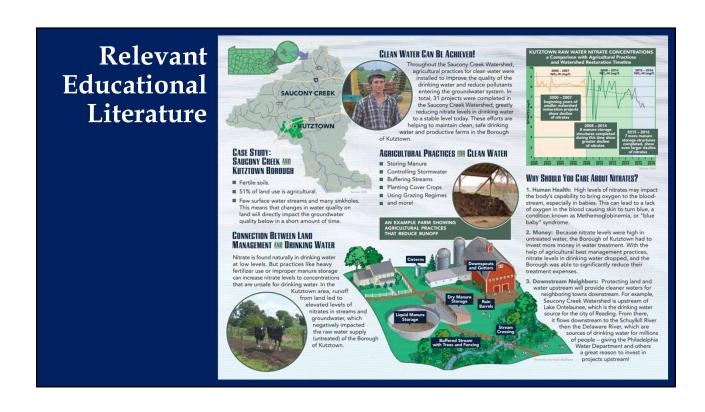
Water System

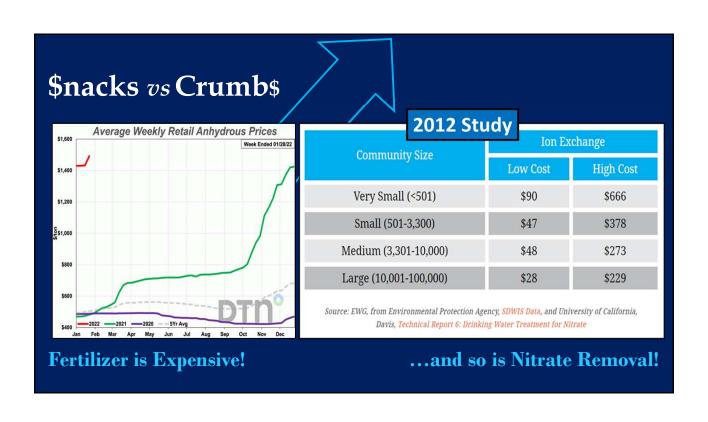
Relationships with Landowners

- Identify the right staff-person to engage.
- Identify key landowners in your SWP area.
- Engage with respect. Don't burn bridges. Be a neighbor.
- Equip them with relevant literature & implementation ideas.

 present solutions, not just problems
- Learn your neighbors' common interests.

 plain sects birds, farmer fellow businessman, etc.
- Emphasize your common goals. snacks vs crumbs





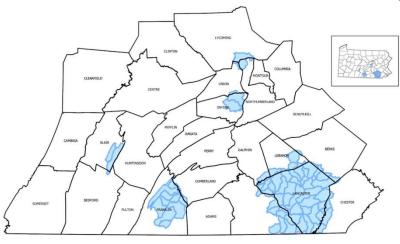
Water System

Relationships with Conservation Partners

- Invite working relationships with preferred conservation entities.
- Opportunities for partnership
 - Share primary SWP focus areas & engaged landowners.
 - Consider partnership for raw water monitoring data.
 - Identify the most qualified system contact.
- Communicate specific water quality concerns & management areas.
 - Groundwater nitrates, Surface water turbidity, chlorides, algae, etc.
 - Consider SWP Maps

Example of a Current RCPP Project

RCPP Project #2513 Turkey Hill Clean Water Partnership



USDA NRCS Regional Conservation Partnership Program

Example of a NRCS RCPP Project

- Heavy Lifter Alliance for the Chesapeake Bay
- NRCS Regional Conservation Partnership Program (RCPP) Funded

Potential Impact - Positives

- · High rate of cost share
- Large funding pool (\$250,000 \$10 million per / \$300 million annually)
- NRCS employs in-house engineers (i.e. manure pit design, etc.)
- Effective BMPs

Potential Impact - Negatives

- Contracts can be more comprehensive for land owners
- · Little plain-sect participation with USDA
- Privacy requirements tend to prevent sharing "measured" success
- Time consuming for lead partner
- Less flexibility for implementation

Water System

Relationships with Water Systems

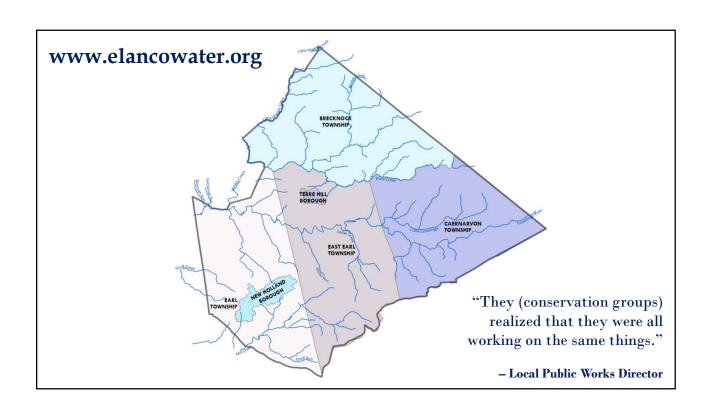
- Consider similar systems as partners not competitors.
- Share knowledge & opportunities with one another.
- Regional Funding needs multiple potential projects so share away!

Saucony Creek represented a 15+ year effort that happened in stages as funding and participants aligned.

Conservation Partners

Relationships with Partners

- The Law of the Lid Water systems will not rise above their "support network."
- Are you partnering with "heavy lifters" for grant proposals? SAN, Western Pennsylvania Conservancy, Stroud, etc.
- Are you streamlining efforts with other organizations? ELANCO example



Conservation Partners

Communication to Water Systems

- Focus on opportunities that address source water quality
- Offer success stories with measured results.
- Offer concise water related resources.
 - Outreach literature, grant participation, etc.
- Remember: water systems specialize in many unrelated skillsets.
 - Specialized treatment processes, pumps, electrical maintenance, distribution system maintenance, plant maintenance, general construction, PA One calls, drinking water regulatory compliance, water meter reading and maintenance, etc.

Consider partnering with me.

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