

Source Water Protection Practical Experiences

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Source Water Protection Regulatory Requirements

NONE!

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Source Water Protection Implementation Barriers

- Not required by regulation
- Most systems and/or local authorities overwhelmed with “their job”
- No time left to dedicate to protection
- Will work on protection as time permits
- No significant money available to support local efforts

ADEQ Approach to Inspiring Action

- Outreach...Outreach...Outreach
- Technical assistance
 - GIS support
 - Technical expertise
 - Meeting and Workgroup planning and support
 - Presentation to elected officials

Still the Question....What's in it for me

- We find many people see the wisdom of protection
- Still it is often viewed as quixotic in times of declining budgets and human resources
- This creates the need to show practical measurable outcomes e.g. \$\$\$

Arizona Waiver Program

- Applies to Phase II and Phase V chemical contaminants
- Builds upon the Source Water Assessment Program
- Two Tiered for Groundwater Systems
 - Must show no use within the source water assessment area
 - Can demonstrate no vulnerability if use exists within source water assessment area

The Source Water Assessment Program Nexus

- Getting a Use Waiver prior to SWAP required systems to:
 - Delineate a 5 year TOT on a USGS quad
 - Conduct a survey within the TOT
 - Map any activities within the TOT associated with the chemicals on the waiver request
 - Researching historic land use activities within TOT

The Source Water Assessment Program Nexus

- Complete a waiver application form
- Have findings and info provided confirmed by the Department

The Source Water Assessment Program Nexus

- Getting a Use Waiver now
 - The Department reviews Source Water Assessments and identifies systems with no uses within area
 - Notifies systems of eligibility for waiver
 - System decides to accept or decline waiver by indicating desire on postcard
 - Department activates waivers accepted

The Source Water Protection Program Nexus

- Getting a Vulnerability Waiver prior to protection efforts required
 - Map of TOT
 - Identification of source in TOT
 - Historic review of area
 - Hydrologic report
 - Specific sub-surface data

The Source Water Protection Program Nexus

- Getting a Vulnerability Waiver now
 - Department reviews SWAP and identifies systems potentially eligible for waiver
 - Notifies systems of potential eligibility
 - System describes what protection activities are being implemented within area
 - Department evaluates protection activities for efficacy and makes waiver determination

How We Get Systems Interested

- We show them the money!!
- Arizona water systems realize, on average, \$1.2 million in savings from waived monitoring requirements each year
 - Systems can reinvest this money into
 - » Infrastructure
 - » Operations
 - » Personnel
 - » Additional protection activities

Program Controls Funded by Systems

- Surveillance monitoring by Department
 - 10% of waived systems tested by Department
- System monitoring regardless of waiver eligibility on extended frequency
 - Systems test for chemicals waived once every 6 to 9 years
- Sanitary survey data to update and enhance assessment data
 - Regulatory eyes and ears

What We Are Finding

- With a real connection systems can see beyond the wisdom of protection to the practical outcomes that can feed prioritization
- Commitment to protection activities grows each year
- Outcomes make the wisdom a reality

QUESTIONS

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