



Minnesota Department of Health Section of Drinking Water Protection

Report to the Metropolitan Area Water Supply Advisory Committee

March 22, 2006

Minnesota Department of Health

Division of Environmental Health

Water Related Programs

- Drinking Water Protection
 - ◆ SDWA
 - ◆ SWP
- Well Management
 - ◆ Well Code
 - ◆ Well Construction
 - ◆ Isolation Distances
 - ◆ Special Construction Areas
- Health Risk Assessment
 - ◆ Risk Assessments for Unregulated Contaminants

Drinking Water Protection Program

- MDH primacy agency for Safe Drinking Water Act (SDWA)
- Regulation of public water supplies
 - ◆ Public Water System =
 - ◆ 25 people
 - ◆ 15 service connections
 - ◆ Public Water System Types
 - ◆ Community (1000)
 - ◆ Nontransient Noncommunity (650)
 - ◆ Transient Noncommunity (6000)

SDWA Rules

- Total Coliform Rule
- Inorganic Chemicals
- Volatile Organic Chemicals
- Synthetic Organic Chemicals
- Lead/Copper
- Arsenic
- Radionuclides
- Radon
- Surface Water Treatment Rule/IESWTR/
LT1SWTR/LT2SWTR
- Disinfection by-Products/
D-DBP1/D-DBP2
- Filter Backwash
- Consumer Confidence Reports
- Public Notice
- Variance & Exemption
- Unregulated Contaminant Monitoring
- Ground Water Rule
- Source Water Protection
- Wellhead protection
- Underground Injection Control
- Drinking Water Revolving Loan Fund
- Capacity Development
- Operator Certification

Drinking Water Program Activities

- Collect and analyze SDWA samples
- Sanitary Surveys (Inspections)
- Engineering Plan Review and Approval
- Drinking Water Revolving Loan Fund
- Source Water Protection
- Compliance determination
- On-site Assistance for MCL violations
- Operator Certification and Training
- Public Information (CCR, Annual Report)

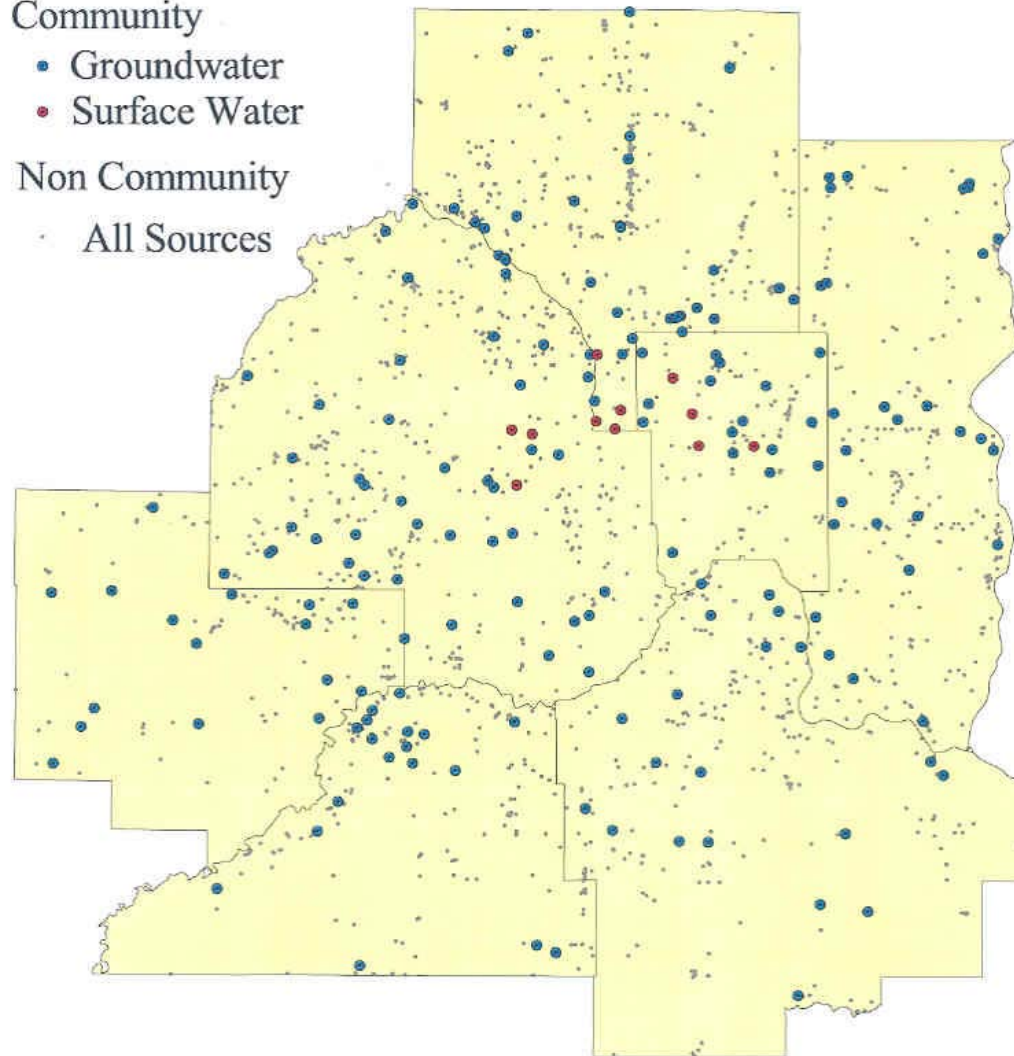
Public Water Supplies in Metro Area

Community

- Groundwater
- Surface Water

Non Community

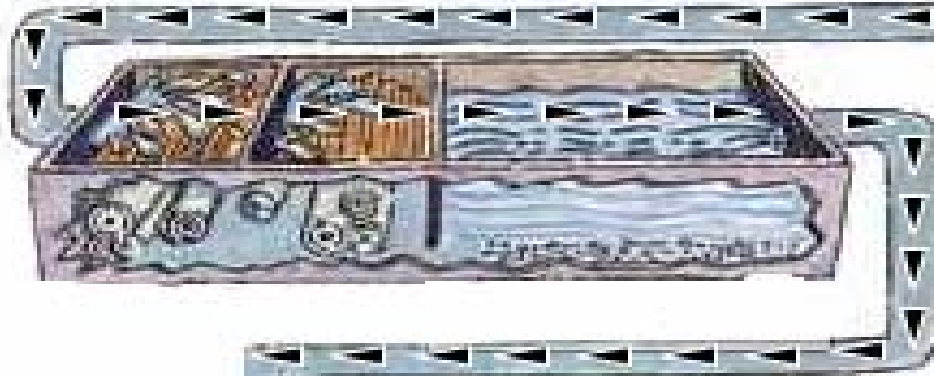
- All Sources



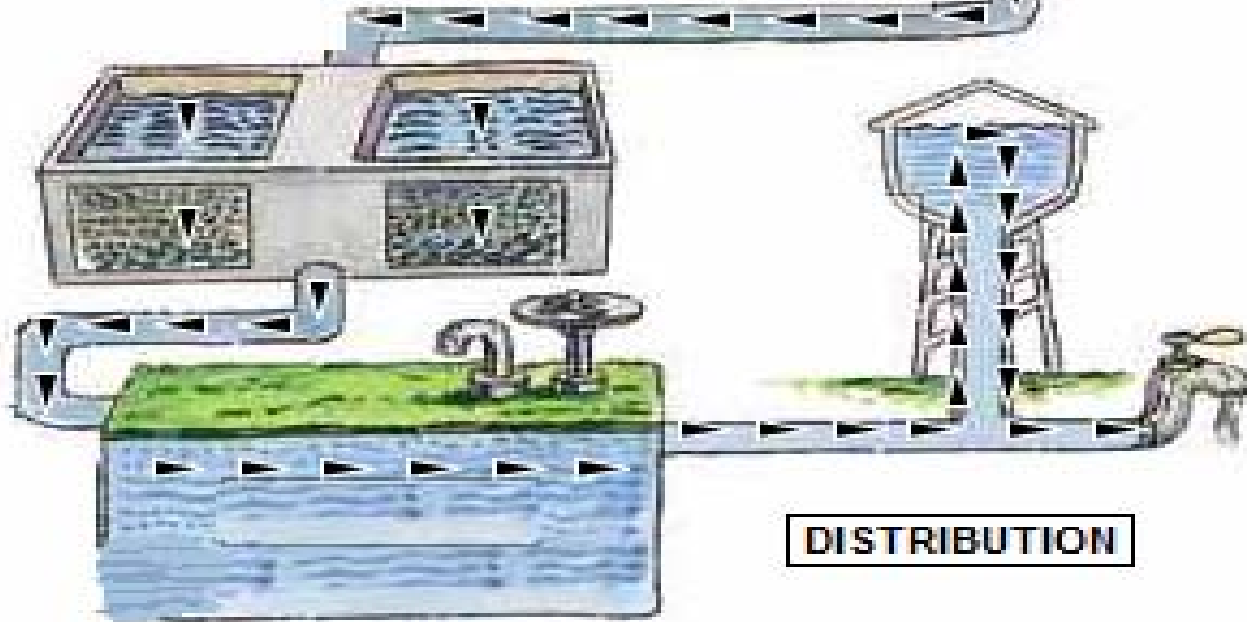
What is a Water System

- Source
 - ◆ Ground
 - ◆ Surface
- Treatment
 - ◆ Chemical
 - ◆ Physical
- Distribution
 - ◆ Pipes
 - ◆ Storage

SOURCE



TREATMENT



DISTRIBUTION

SOURCE

- Selection based on:
 - ◆ Quantity needed/available
 - ◆ Quality

TREATMENT

- Based on:
 - ◆ Source Quality
 - ◆ Health Related Contaminants
 - ◆ Aesthetics

DISTRIBUTION (STORAGE)

- Pipes sized adequately to distribute water where needed
- Storage sized for:
 - ◆ Peaking
 - ◆ At least one day emergency capacity
 - ◆ Fire

So, you want to construct a new well

■ MDH

- ◆ Engineering Review
- ◆ Well Code Review
- ◆ Site assessment
- ◆ Ownership or Control
- ◆ Wellhead Protection

■ DNR

- ◆ Emergency and Conservation Plan
- ◆ Appropriation Permit



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