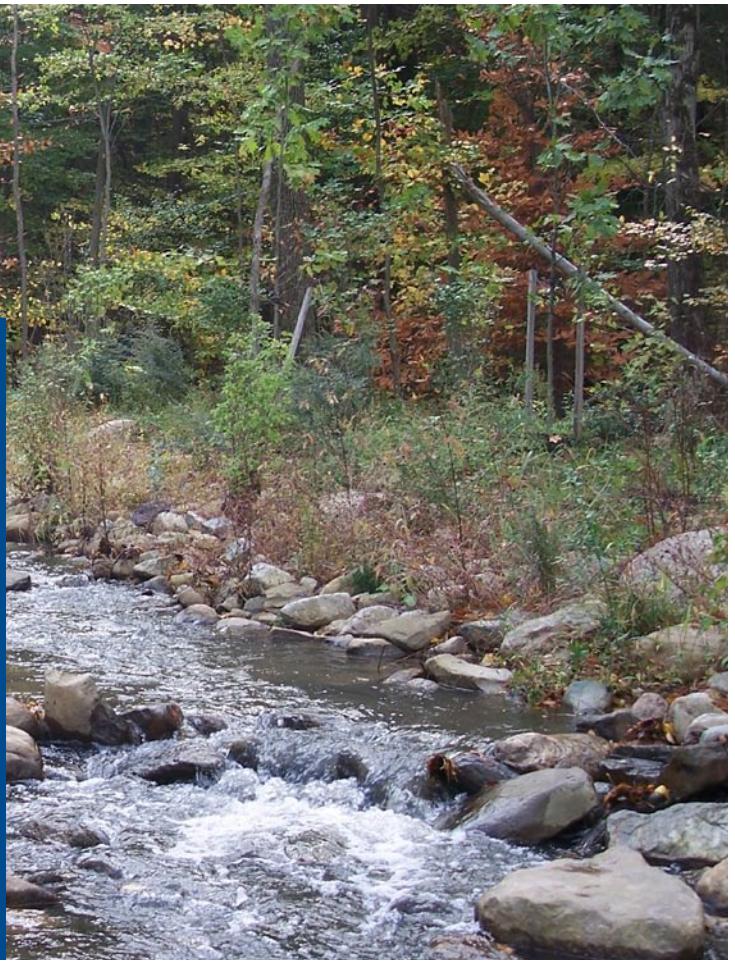


# Water Stewardship

Fresh water is one of our most limited renewable resources. It is no longer reasonable to assume that there will always be plentiful, affordable, fresh water readily available at the turn of a valve. While experts agree that water shortages will likely occur as populations increase in the decades ahead, practical solutions exist today that could avert a major water crisis. High volume water users that are able to shrink their water footprint today can make a notable impact on water resources for tomorrow. Reductions in water usage can often be implemented at little to no long term cost.



## Water Stewardship Defined

- 1 Accepting responsibility to preserve and improve the quality of our natural water resources
- 2 Minimizing any negative impacts to fresh water supply sources due to usage and waste
- 3 Nurturing the availability of a clean and abundant water supply for future generations



## PS&S Experience

PS&S' multidisciplinary professionals have extensive experience with the water resource sciences and engineering applications. We are uniquely positioned to collaboratively approach water conservation projects involving domestic needs, manufacturing process needs and utility support system requirements. We provide an interdisciplinary approach to water management, promoting and improving water efficiency and advancing water stewardship goals, while reducing long term water consumption costs.



For more information, please contact

**Lisa DiGerolamo, PE at [ldigerolamo@psands.com](mailto:ldigerolamo@psands.com) or 732.584.0414.**

# Save money while conserving water and energy

**Audits and Usage Studies** provide assessments of water usage and evaluate system efficiencies, costs and usage rates. Audits also can study the supply or procurement process to determine the most efficient delivery system. Improvement recommendations often include the potential benefits of innovative water management controls.

Audits are typically followed by more detailed Condition Assessments and Alternative System Studies.

**Condition Assessments** consider the operating condition of existing utility systems and components. Maintenance records are studied, and component/system failures and overall process performance are tracked to formulate predictive maintenance plans. Condition Assessment findings are included in a report detailing infrastructure improvements necessary to restore the original design conditions or achieve performance benefits greater than the original design.

**Life Extension and Alternative System Studies** can be combined with Condition Assessments to develop a program to extend the life cycle of utility systems and minimize water needs. Studies include recommendations for change-out, upgrade and scheduled maintenance of system components to achieve the desired life extension. Alternative water reuse and reduction opportunities are also provided. Budget estimates are also included to help the client develop a program that meets its capital and operational budgetary requirements.



## Opportunities for Water Consumption Reduction for:

- Corporations
- Pharmaceutical Companies
- Public Utility Services
- Counties and Municipalities
- Manufacturing Operations
- Colleges and Universities

## Water Efficiency and Stewardship Capabilities

### Usage Evaluations

Water Audits, Needs Assessments, Water Reuse Feasibility Studies

### Water Supply Systems

Groundwater Studies, Drawdown Evaluations, Well Design, Surface Water Intake Systems, Treatment Systems, NJPDES Permitting

### Water Distribution/Conservation

Pumping and Metering Facilities, Storage, Instrumentation/Controls/SCADA, Hardy-Cross Evaluations, Irrigation Systems, Water Efficient Landscaping

### Treated Wastewater Reclamation

Treatability Studies, Cost/Benefit Evaluations, Advanced Treatment Systems, Beneficial Reuse Regulatory Permitting

### Stormwater Treatment/Re-Use

Comprehensive Stormwater Analysis and Management, Stream Daylighting and Relocation, Attenuation Tanks, Infiltration Ponds, Bio-Retention, Constructed Wetlands, Roof Water Collection/Reuse Systems, Synthetic Athletic Fields

### Waste Flow Reduction

Manufacturing/Process Water Systems, Infiltration/Inflow Remediation, Water Efficient Plumbing

### Mechanical Systems

Cooling Systems, Chiller Systems, Boiler/Steam Systems and Plants

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