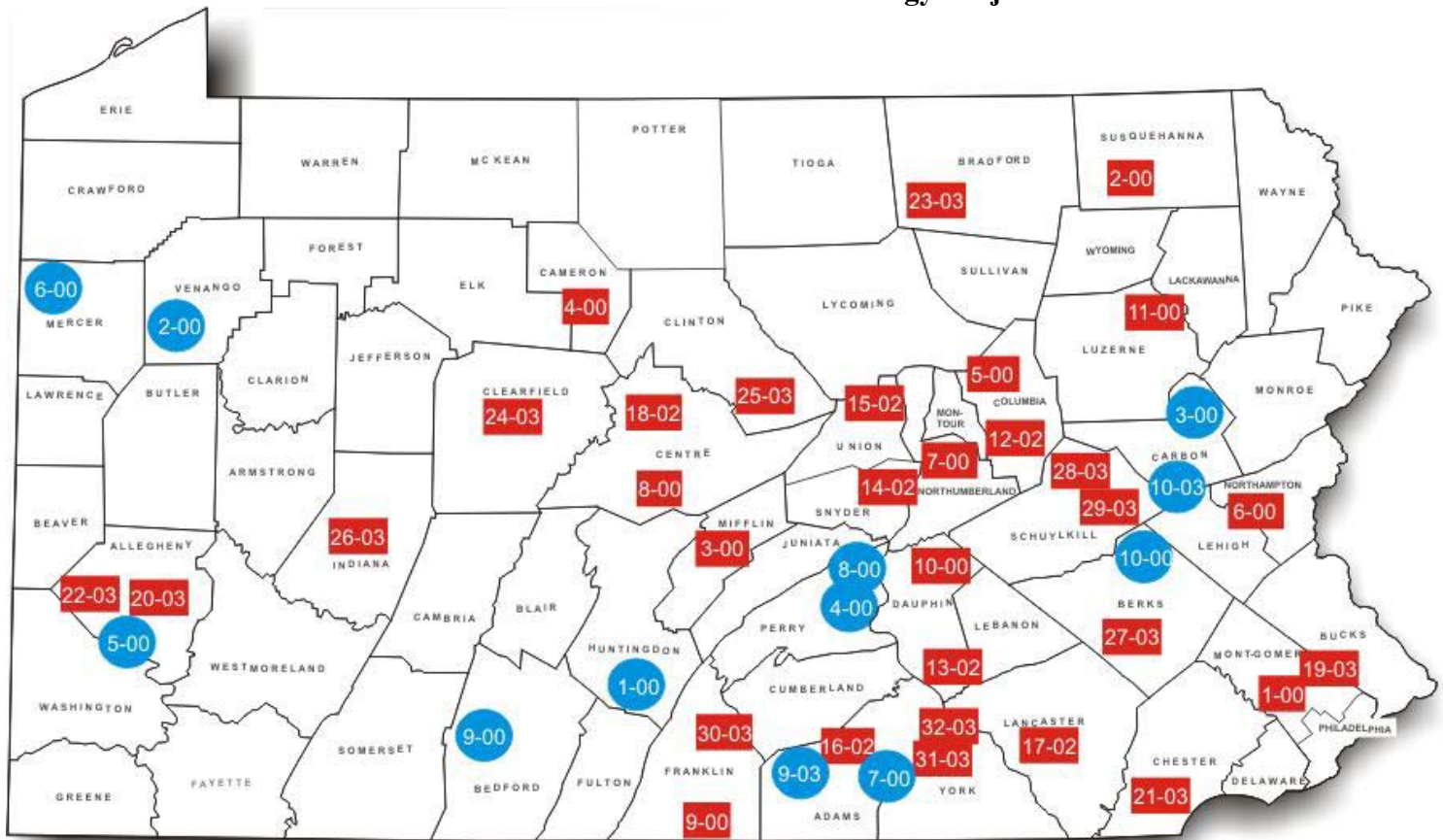


Growing Greener New or Innovative Water & Wastewater Treatment Technology Projects



KEY

■ WASTEWATER PROJECTS ● WATER PROJECTS
 01-00 - MAP I.D. NUMBER-GRANT FUNDING YEAR
 S. D. - SCHOOL DISTRICT M. A. - MUNICIPAL AUTHORITY
 S. A. - SEWER AUTHORITY

20-03 ALLEGHENY COUNTY S. A. (Allegheny)
"Emergent Robotic Technology Evaluation"
 Total Project Cost - \$726,350*
 Growing Greener Grant - \$100,000
 Estimated Project Completion Date - August 2004

CANTON BORO. AUTHORITY (Bradford)
"No-Dig Sewer Line Rehabilitation"
 Total Project Cost - \$2,600,000*
 Growing Greener Grant - \$300,000
 Estimated Construction Completion Date - March 2005

21-03 AVONDALE BORO. (Chester)
"Biological Nutrient Removal Process"
 Total Project Cost - \$4,480,000*
 Growing Greener Grant - \$500,000
 Estimated Construction Completion Date - June 2005

CLEARFIELD BORO. (Clearfield)
"Pipe Bursting"
 Total Project Cost - \$535,425*
 Growing Greener Grant - \$195,261
 Estimated Construction Completion Date - March 2005

22-03 BRADDOCK HILLS BORO. (Allegheny)
"Ultraliner PVC Alloy Pipeliner & Sauereisen 60-Minute Solution for Manhole Rehabilitation"
 Total Project Cost - \$221,000*
 Growing Greener Grant - \$165,750
 Estimated Construction Completion Date - June 2004

E. NITTANY VALLEY JOINT M. A. (Clinton & Centre)
"Symbiotic Facultative Bacteria Solution"
 Total Project Cost - \$20,000*
 Growing Greener Grant - \$15,000
 Estimated Project Completion Date - May 2004

- 1-00** **AMBLER BORO. WATER AUTHORITY (Montgomery)**
"Enhanced Final Clarification Using Dissolved Air Flotation System"
 Total Construction Cost - \$1,396,300*
 Growing Greener Grant - \$100,000
 Construction Completion Date - June 2002
- 2-00** **ELK LAKE S. D. (Susquehanna)**
"Lemtec Modular Cover To Insulate Lagoon"
 Total Construction Cost - \$132,495*
 Growing Greener Grant - \$100,000
 Construction Completion Date - June 2002
- 3-00** **GRANVILLE TOWNSHIP (Mifflin)**
"Vermicomposter (Earthworm Composting)"
 Total Construction Cost - \$1,039,500*
 Growing Greener Grant - \$200,000
 Est. Construction Completion Date - March 31, 2004
- 4-00** **MID CAMERON AUTHORITY (Cameron)**
"Constructed Wetlands Design"
 Total Design Cost - \$195,000*
 Growing Greener Grant - \$100,000
 Est. Construction Completion Date - January 2005
- 5-00** **MILLVILLE M.A. (Columbia)**
"Modified Ludzack - Ettinger Process"
 Total Construction Cost - \$3,622,000*
 Growing Greener Grant - \$100,000
 Construction Completion Date - May 2003
- 6-00** **NORTHAMPTON BORO. (Northampton)**
"Odor Control Systems"
 Total Construction Cost - \$106,999
 Growing Greener Grant - \$100,000
 Construction Completion Date - Nov. 2002
- 7-00** **M. A. CITY OF SUNBURY (Northumberland)**
"Biological Nutrient Removal Component in Aeration Basins"
 Total Construction Cost - \$18,398,367*
 Growing Greener Grant - \$100,000
 Construction Completion Date - January 2003
- 8-00** **UNIVERSITY AREA JOINT AUTHORITY (Centre)**
"Reverse Osmosis/Nanofiltration to Produce Beneficial Refuse Water"
 Total Construction Cost - \$33,300,000*
 Growing Greener Grant - \$100,000
 Estimated Construction Completion Date - January 2005
- 9-00** **WASHINGTON TOWNSHIP M. A. (Franklin)**
"Adjustable Sludge Thickening Device"
 Total Construction Cost - \$236,004*
 Growing Greener Grant - \$100,000
 Construction Completion Date - November 2003
- 10-00** **WICONISCO TOWNSHIP (Dauphin)**
"Sludge Reduction And Algae Control Project For Lagoon"
 Total Construction Cost - \$10,000*
 Growing Greener Grant - \$10,000
 Project Completion Date - March 2003
- 11-00** **WYOMING AREA S. D. (Luzerne)**
"Treatment Plant Control Panel Upgrade And Remote Monitoring System"
 Total Construction Cost - \$16,675
 Growing Greener Grant - \$16,675
 Construction Completion Date - March 2003
- 12-02** **BLOOMSBURG M. A. (Columbia)**
"Sequencing Anoxic Contractor"
 Total Project Cost - \$7,863,400*
 Growing Greener Grant - \$100,000
 Estimated lbs/yr Nitrogen Reduction to Chesapeake Bay - 253,700
- 13-02** **DERRY TOWNSHIP M. A. (Dauphin)**
"Kruger A2O Process"
 Total Project Cost - \$9,827,200*
 Growing Greener Grant - \$750,000
 Estimated lbs/yr Nitrogen Reduction to Chesapeake Bay - 269,100
- 14-02** **EASTERN SNYDER COUNTY REGIONAL AUTHORITY (Snyder)**
"Vertical Loop Reactor Process"
 Total Project Cost - \$10,314,000*
 Growing Greener Grant - \$400,000
 Estimated lbs/yr Nitrogen Reduction to Chesapeake Bay - 194,500
- 15-02** **GREG TOWNSHIP M. A. (Union)**
"Automatic Dissolved Oxygen Control System"
 Total Project Cost - \$44,750*
 Growing Greener Grant - \$35,000
 Estimated lbs/yr Nitrogen Reduction to Chesapeake Bay - 8,600
- 16-02** **HANOVER BORO. (Adams)**
"Variable Speed Aerators and Dissolved Oxygen Control System in Existing Oxidation Ditch"
 Total Project Cost - \$511,000*
 Growing Greener Grant - \$400,000
 Estimated lbs/yr Nitrogen Reduction to Chesapeake Bay - 131,400
- 17-02** **LANCASTER CITY (Lancaster)**
"Process and Control Enhancements"
 Total Project Cost - \$3,000,000*
 Growing Greener Grant - \$1,050,000
 Estimated lbs/yr Nitrogen Reduction to Chesapeake Bay - 921,400
- 18-02** **MID-CENTRE COUNTY AUTHORITY (Centre)**
"Sequencing Batch Reactor and Disk Filter"
 Total Project Cost - \$8,457,908*
 Growing Greener Grant - \$600,000
 Estimated lbs/yr Nitrogen Reduction to Chesapeake Bay - 118,900
- 19-03** **ABINGTON TOWNSHIP WTP (Montgomery)**
"Bio-Chem Technology Monitoring and Control System"
 Total Project Cost - \$347,318*
 Growing Greener Grant - \$260,488
 Estimated Construction Completion Date - April 2004

26-03 INDIANA BORO. (Indiana)
"Pipe Bursting"

Total Project Cost - \$355,775*
Growing Greener Grant - \$266,831
Estimated Construction Completion Date - March 2005

27-03 LAURELDALE BORO. (Berks)
"Cured in-Place Pipe Lining"

Total Project Cost - \$400,000*
Growing Greener Grant - \$300,000
Estimated Construction Completion Date - February 2005

28-03 RINGTOWN BORO. M. A. (Schuylkill)
"Multiplex Manhole Liners & Insituform Pipe Liners"

Total Project Cost - \$800,000*
Growing Greener Grant - \$500,000
Estimated Construction Completion Date - March 2004

29-03 SAINT CLAIR S. A. (Schuylkill)
"Slip-Line Technology"

Total Project Cost - \$987,000*
Growing Greener Grant - \$212,000
Estimated Construction Completion Date - September 2004

30-03 SHIPENSBURG BORO. (Cumberland & Franklin)
"A20 Process"

Total Project Cost - \$796,000*
Growing Greener Grant - \$500,000
Estimated Construction Completion Date - December 2004

31-03 SPRINGETTSBURY TWP. (York)
"A20 Process Evaluation"

Total Project Cost - \$330,000*
Growing Greener Grant - \$247,500
Estimated Project Completion Date - July 2006

32-03 YORK CITY S.A. (York)
"SymBio Process Evaluation"

Total Project Cost - \$133,500*
Growing Greener Grant - \$95,400
Estimated Construction Completion Date - December 2004

1-00 ALEXANDRIA BORO. WATER AUTHORITY (Huntingdon)
"Membrane Ultrafiltration"

Total Project Cost - \$1,450,000*
Growing Greener Grant - \$100,000
Est. Construction Completion Date - June 2004

2-00 BARKEYVILLE M.A. (Venango)
**"Mixed Oxidant Generating System,
Sand Filters, and Softening System"**

Total Project Cost - \$292,178*
Growing Greener Grant - \$100,000
Est. Construction Completion Date - Sept. 2004

3-00 BOWMANSTOWN BORO. AUTHORITY (Carbon)
**"On-Site Hypochlorite Generation Disinfection,
Supervisory Control and Data Acquisition
(SCADA) System"**

Total Project Cost - \$1,406,750*
Growing Greener Grant - \$100,000
Est. Construction Completion Date - April 2003

DUNCANNON BORO. WATER WORKS (Perry)
"In-Line Direct Membrane Microfiltration Design"

Total Design Cost - \$201,000*
Growing Greener Grant - \$100,000
Est. Construction Completion Date - 2007

HARMAR WATER AUTHORITY (Allegheny)
"Bag Filtration of Backwash"

Total Project Cost - \$156,188
Growing Greener Grant - \$94,000
Construction Completion Date - May 20, 2003

JAMESTOWN M. A. (Mercer)
**"Mixed Oxidant Generating System,
and Bag Filtration"**

Total Project Cost - \$595,000*
Growing Greener Grant - \$100,000
Construction Completion Date - July 2002

LITTLESTOWN BORO. (Adams)
"Zeeweed Membrane Ultrafiltration"

Total Project Cost - \$1,297,176.56*
Growing Greener Grant - \$100,000
Construction Completion Date - Sept. 26, 2001

NEWPORT BORO. WATER AUTHORITY (Perry)
"Zeeweed Membrane Ultrafiltration Study"

Total Study Cost - \$100,000*
Growing Greener Grant - \$100,000
Est. Construction Completion Date - Dec. 2004

SAXTON BORO. M. A. (Bedford)
"Membrane Ultrafiltration"

Total Project Cost - \$795,000*
Growing Greener Grant - \$100,000
Est. Construction Completion Date - Dec. 2004

WESTERN BERKS WATER AUTHORITY (Berks)
**"Rapid Mix, Flocculation and Dissolved
Air Floatation Clarification"**

Total Project Cost - \$1,406,750*
Growing Greener Grant - \$100,000
Construction Completion Date - November 2001

POSSUM VALLEY M. A. (Adams)
"Membrane Filters"

Total Project Cost - \$322,000*
Growing Greener Grant - \$241,500
Est. Construction Completion Date - May 2004

JIM THORPE BORO. (Carbon)
**"In-line Filter, Stream Current Monitor,
Coagulant Control System & Modulating
Rate of Flow Controller"**

Total Project Cost - \$141,695*
Growing Greener Grant - \$106,270
Est. Construction Completion Date - September 2004

***NOTE:**

"Total Project Cost" may include construction costs for improvements other than the innovative technology for which a grant was provided.