



COLLEGE OF
AGRICULTURE &
NATURAL RESOURCES



Wastewater Treatment Demonstration Facility

Central Maryland Research
and Education Center (CMREC)
Clarksville, Maryland



Goals, Audiences, and Opportunities for the Demonstration Facility

- Education of homeowners on systems, components and maintenance practices
- Training for wastewater industry, and government environment personnel including CEUs
- Experiential learning of technology and their operation
- Ability to understand wastewater dispersal systems
- Scheduled tours and workshops for the general public



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Clarksville Facility
4240 Folly Quarter Road
Ellicott City, MD 21042

go.umd.edu/CMREC

mowpa.org

The College of Agriculture and Natural Resources and the Maryland Onsite Wastewater Professional Association (MOWPA) have begun development of a facility intended to demonstrate technology and provide education and training on onsite wastewater treatment, or septic systems.

This two-acre site will present unique opportunities for homeowners and various professionals to experience a variety of wastewater treatment technologies including: conventional septic systems, waste water dispersal methods, advanced treatment or best available technology (BAT) systems, demonstration of system landscaping practices, and well technology and protection practices.

THESE SYSTEMS AND TECHNOLOGIES WILL BE ON DISPLAY FOR VISITORS

Conventional Systems

Concrete septic tanks
Plastic septic tanks
Distribution box
One of the above tanks
with gravel trenches

Dispersal Systems

Gravel trench (end view)
Chambers (low and high)
EZ Flow tubes
Low pressure pipe
Drip dispersal
Various pump chamber float
configurations
Serial distribution
Shallow pressurized dispersal
At grade mound (end view)
Sand mound (end view)
Space for future technologies
Pump systems
Pump tank with timed floats

Advanced Treatment Systems

Current MD approved BAT units
Space for future approved BAT units
Electric controllers, alarm, etc.
Peat filters
Sand filters
Soil and Site Evaluation:
Soil pits for hands-on soil
evaluation experience
Soil types and structure

Landscaping Practices

Tank
Drainfield
Sand and At Grade mounds
Stormwater diversion practices

Wells and Protection Practices

Sanitary caps
Pitless adapter
Pressure tanks
Pumps
Well head sloping
Well grouting
Horizontal separation

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Maryland Onsite Wastewater Professional Association (MOWPA)

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