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# The Scoop on Poop: Pet Waste a Major Polluter of Md. Waterways

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BY CLARA VAUGHN - OCTOBER 25, 2012

ANNAPOLIS – When you fail to pick up after your pooch, you may be doing more than irking the next-door neighbors.

Studies conducted over more than a decade in watersheds across the state have found that pets produce up to one-third of bacterial pollution in waterways near developed areas.

That's right. Dog poop is the source of startling amounts of *E. coli*, *Giardia*, *salmonella* and other microscopic pathogens in local waters.

In extreme cases, 68 percent of bacterial pollution in the Severn River watershed has been recorded as coming from pet waste. And a whopping 87 percent of bacterial pollution in the Magothy River's Forked Creek tributary has been traced back to pets.

The findings come from more than 50 studies by the Maryland Department of the Environment and Salisbury University tracking waterborne bacteria back to its sources. Acting as poop sleuths, scientists have been able to determine whether waste came from humans, livestock, wildlife or pets based on a bacteria's unique patterns of resistance to antibiotics.

That's because different antibiotics are used to treat people and various animals, said Mark Frana, professor of biology at Salisbury University, who has been involved with the studies since 1999.

"If fecal material gets into water systems, there's an increased risk to human health," Frana said.

In addition to carrying a host of disease-causing bacteria and parasites, untreated doggy doo is rich in nutrients that foster algae blooms and contribute to oxygen-depleted dead zones downstream, including the Chesapeake Bay.

So why don't more people bag their dogs' bunk?

A 1999 study by the Center for Watershed Protection found that 41 percent of bay-area dog-owners rarely or never pick up after their pets.

Most people simply don't make the connection between pet waste and water quality, said Suzanne Etgen, Watershed Stewards Academy Coordinator at the Arlington Echo Outdoor Education Center.

Etgen recently taught a Watersheds Steward Academy class on behavior change where she had her students survey their communities to find out why people don't pick up after their dogs.

"Most people said that they do pick up their pet waste when they're out in public, but not when the dogs are just in their backyard," Etgen said. "People don't really perceive that it's that important when it's just 'poop in the woods.'"

But that waste is carried downstream during rainstorms and enters waterways as runoff or through storm drains. The influx of untreated dog logs contributes to spikes in overall bacteria after rainfall, often causing recreational areas to close.

After rainfall, all Anne Arundel County beaches are under a no swimming or water contact advisory for two days due to high bacteria levels.

“Wherever that waste lands, there’s a potential for it getting into water systems,” Frana said.

People like Carolyn Ricketts, a Master Watershed Steward and graduate of the Chesapeake Bay Voices Program, are working to raise awareness of the problem of dogs’ unbagged bits in their local communities.

“Most people are not aware that pet feces contain such a high level of pathogens – bacteria that are not being treated. And it does impact our water systems, and eventually the Chesapeake Bay,” Ricketts said.

She and several other graduates of Etgen’s course are circulating flyers outlining the health risks of dog waste in Annapolis.

Waste disposal stations equipped with bags for picking up your pooch’s piles are also in the works, as is a mobile phone app mapping their locations in the city.

The most effective way to change behavior is through word of mouth, though, Ricketts said.

“You have to hear the concrete data about the types of pathogens that are carried in pet feces,” she said. “You have to hear it more than once, from more than one source.”

To learn more about bacteria and other water quality measures in your watershed, visit the Department of the Environment’s Water Quality

Mapping Center at

<http://www.mde.state.md.us/programs/Water/TMDL/Integrated303dReports/Pages/WaterQualityMappingCenter.aspx>.