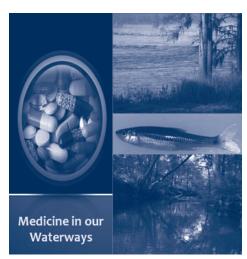


# Resource

A Publication of the City of North Augusta Stormwater Management Department

## **Protecting Streams by Properly Disposing of Prescription Drugs**



For years it was recommended that old medications could be poured or flushed down the drain when they were no longer needed or out of date. That practice is now not advised! Studies have shown that some medications or personal care products (shampoo, perfume, sunscreen, detergent, nutritional supplements or animal medicine) contain chemicals that are being found in small quantities in streams, rivers and groundwater. Community water supplies come from fresh Environmental Protection Agency

Further studies are being conducted medicine be removed from its across the country to determine if original container and added to the treatment process for purifying drinking water is adequate at or sticky glue like substances in a removing them.

A few of the common medications found in waterways include carbamazepine, cotinine, ibuprofen, metformin, and sulfamethoxazole according to a study conducted by the United States Geological Survey (USGS). The concentrations were not extremely high and the effects are not fully known. It is unclear how the presence of medications can affect fish and other wildlife. More studies are underway to determine what is safe and what is not safe to dispose of in sanitary Until a conclusion is reached, we should be very careful when disposing pharmaceuticals and personal care products.

While not a perfect solution, the <u>www.epa.gov/ppcp</u>.

water or groundwater sources. (EPA) is advising that unneeded wet coffee grounds, dirty kitty litter, margarine tub or other small water tight container with a lid. Before disposal of liquid medications, salt, flour, or cornmeal can be added into the original container. Peel off or mark out the label on containers with an indelible marker. Following these steps will make the waste medicines unappealing to children, pets, or others. Once prepared, dispose of them in your nonrecycle household trash (do not place it in the blue-bag). personal care products, consider reducing the amount that you use or choosing all natural products that are more environmentally safe. To learn more about the problem and how you can help at home, visit the EPAs Pharmaceuticals and Personal Care Products website at

#### FEEDING WILDLIFE NOT ALLOWED!

city is trying to spread the word, Brick Pond Park". restoration, the wetland system plenty of food for birds, waterfowl was impaired due to excessive and wildlife to eat.

nutrient loads in the system, thus may not understand. Prior to The park's natural habitat provides

Feeding the wildlife at Brick Pond nutrient loads. The restoration Please share this information with Park will not only cause harm to the design is set up to remove your children, grandchildren, animals, but will also harm the pollutants to improve water quality. friends and neighbors. If you are at ecosystem. For these reasons, the Feeding the animals increases the park, explain it to those that "Do Not Feed Any of the Animals at defeating the design's purpose. together, we can protect the wetland and its animals.

### **Impacts of Feeding Brick Pond Park Wildlife**

- Feeding wild animals changes their behavior.
- Feeding human food to wild animals can harm them.
- Wildlife dependent upon hand feeding, especially those that grow to maturity being hand fed, become less able to feed themselves.
- Hand feeding can attract too many animals! They will begin to multiply in the park, causing overpopulation leading to destruction of habitat, pollution, increased disease and eventually starvation.
- Feeding the birds, turtles, and fish is the same as feeding the alligators. Alligators see what is going on and associate people with food. They don't want to miss out on a free meal! Unfortunately for them, an alligator that swims up to people is considered a nuisance and threat. In SC, nuisance alligators are destroyed, not relocated.



## Species Profile:

#### **Eastern Box Turtle**

#### (Terrapene carolina carolina)

These beautiful land turtles are common in North Augusta and are possibly one of the city's oldest residents. They can be found within dry woodlands, thickets, fields, moist woodlands and near streams. Eastern Box turtles are primarily a species of the eastern half of the United States although their range extends as far north as lower Maine and Michigan. Habitat loss and its fragmentation is a big problem for these slow moving creatures.

A high domelike shell is the first thing you notice different about the Eastern Box turtle from other turtles. The shell is usually brownish to black with markings that vary in color from pale yellow to reddish orange. The hard shell protects the animal's soft organs from predators. Unlike other turtles, box turtles have a hinged shell underneath (the plastron) which allows them to completely close into their shell. To make room, the turtle may exhale air out of its lungs releasing a hissing sound. Their skin is usually dark brown with yellow, orange, or white spots and streaks. Male Eastern Box turtles are slightly larger than females, have red irises and have shorter curved hind claws. Female's irises are yellowish to brown. They eat plants and animals its adjoining forest.



mate with one or many females. Interestingly, the female may lay fertile eggs for four or more years after one successful mating. Nesting usually occurs from May through July with nests being dug by the females in sandy or loamy soil, using their hind legs. Eggs are then laid in the again to hatch out in about three Eastern Box turtle is around 40-50

being studied using miniature turtles as pets. If you see one in your radio transmitters to track their environment, it is most likely a lifemovements. The Aiken county study long neighbor if its habitat needs are is in a suburban neighborhood and met and people are careful. The data including snails, insects, berries, and collected tells scientist a lot about

mushrooms. A male box turtle may the species including, when and where they hibernate, where they go to forage or mate, and also how they die. Several of the study turtles died from human mistakes such as burning brush/leaf piles where turtles were hiding, hitting them with lawn mower blades while cutting tall grass, and others drowned when falling into nest and then carefully covered up backyard goldfish ponds without climb-out ramps. Awareness is very months. The average life span of the important when it comes to helping this species make it in our ever years with some individuals living changing community. Consider them much longer, up to 100 years or more. when landscaping or maintaining your yard and discourage children Locally, the Eastern Box turtle is from keeping the long-lived box

## North Augusta Elementary Students Study Wetlands

In October, over 100 fifth grade Arts and Heritage Center. during a tour of the North Augusta presentations

North Augusta's Brick Pond Park plant and animal studies, soil the event a success. to share

The information with students from North Augusta students then conducted projects students. A host of volunteers and Elementary School took part in that included water chemistry, parent chaperones helped to make Outdoor Education pilot project. testing and erosion, measuring education partners include USC-The students visited the Municipal ponds, and looking at micro and Aiken, Clemson Extension, Augusta Center where they learned about macroscopic creatures that live in State University and the Arts & Brick Pond Park's development and the water. They will compile the Heritage Center. If you would like purpose along with local history data they gathered and create to learn more about the project, the please contact us at (803) 441-4246.

Reminder:

North Augusta's Lawn Mower Exchange program (May 2009 issue) ends December 31, 2009. If you are interested in receiving a discount coupon to purchase an electric mower, please contact us prior to the deadline. More information is available at: www.northaugusta.net.



For additional information contact:

Tanya Strickland, Environmental Coordinator City of North Augusta Stormwater Management Department P.O. Box 6400 • North Augusta, SC 29861-6400 (803) 441-4246 stormwater@northaugusta.net

