

Sewage

Continued from Page 1A

you're not really sure if you did that and found, say, E.coli, it's from the sewage and not from geese and other wildlife in the area," City of Ithaca Environmental Engineer Scott Gibson said. "It's easy to say off the cuff that there's no environmental damage or no hazard to public health."

So far, none has been determined. The closest water quality monitoring system — at Bolton Point — is several miles up the lake, and preliminary tests there in the wake of the spill found no contamination. However, the southern tip of the lake is relatively shallow — about 7.6 feet deep on average — and with a relatively small amount of sewage diffusing into the water, results from Bolton Point would be of little help in determining local impact.

In this scenario, finding the rate of diffusion of the sewage into the water is the best bet.

Using charts of the depth of the southern end of Cayuga Lake as well as GIS software, there is an estimated 1.1 billion gallons of water in the southern tip of the lake if measuring upstream from the source of the leak and using the Cornell Sailing Club as a boundary.

With these calculations, over the course of several weeks it can be estimated, at most, the



NICK REYNOLDS / STAFF ILLUSTRATION

A map of the acreage used to determine gallons of water in the southern end of Cayuga Lake.

amount of sewage entering the area totaled less than 1 percent of its total water content — 0.85 percent — assuming all of the sewage remained in the water.

"Typically what happens is when we have any utility system back up like this, the ground will soak it up," Gibson said. "The environment doesn't really get enough credit for healing itself."

For the sewage remaining in the water, it's impor-

tant to determine the rate at which material flows out of the inlet and into the lake itself. Unlike the adjacent Fall Creek, which had 40 to 180 cubic feet of water flowing into the lake every second since the leak began, the inlet has an inconsistent flow rate, so it's difficult to gauge how quickly materials move in and out of the water body.

"Instead of being a stream in a conventional sense, it is more of an estuary," said Jose Lozano, lab-

oratory director for the Ithaca Area Wastewater Treatment Facility. "Depending on the lake level, it flows back and forth. Thirty to 40 percent of the time, it flows toward the lake. But if the lake level is higher than normal, it flows back into the inlet, and the reason is wind from the north, pushing the water upstream."

Throughout October, lake levels were slightly above target levels; however they remained below

that level throughout September.

Factors such as the weather and wind conditions can also impact the inlet's flow, causing water to circulate at different rates. Lozano said the amount of sewage would likely diffuse into the water and be diluted, and that the quicker the flow rate, the quicker the rate of dilution into the water.

James Balyszak, who manages the application of herbicide into the inlet's

"Typically what happens is when we have any utility system back up like this, the ground will soak it up."

SCOTT GIBSON,
ITHACA ENVIRONMENTAL ENGINEER

Hydrilla Program, said numerous factors influence the disbursement of chemicals into the water, including rainfall and natural degradation of the material. However, the process and its speed is highly variable and depends on numerous factors.

Water introduced into the lake typically cycles through the watershed within 10 years, according to the Cayuga Lake Watershed Intermunicipal Organization.

Moving forward

Last week, state officials came to observe the source of the sewage leak and recommended ways to make identifying leaks simpler in the future.

The city also plans to put signs in the area with the City Water and Sewer Division's phone number so anyone noticing a problem in the area can report it right away.

Follow Nick Reynolds on Twitter @IJCityWatch.

Deaths

Marjorie A. Catlin, age 80, Sayre, PA, November 3, 2015, Zirbel Funeral Home

Nell Evangeline Branton Currie, age 88, Jackson, MS, November 1, 2015


Otha Dickerson, Jr., age 61, Newfield, November 3, 2015, Bangs Funeral Home

The list of area deaths that appears above is provided free of charge. The obituaries, in memoriams and cards of thanks elsewhere on this page are paid announcements. Obituary Department: 800-640-1722 Fax: 607-798-0261 cnyobits@gannett.com HOURS Weekday • 8:30am-5:00p Sunday • 2:00pm-5:00p Holidays - Call For Deadlines

Currie, Nell Evangeline Branton

Nell Evangeline Branton Currie of Jackson, Mississippi went to be with the Lord on Sunday, November 1, 2015. Nell was born in New Hebron, Mississippi on July 17, 1927 to Anna Waltman Branton and Shelby M. Branton. She graduated from Central High School in Jackson. She worked as an engineering assistant at Southern Bell for 40 years and also as a credit manager part-time for McRaes Department store for 30 years. Nell married Edward Jones Currie on June 17, 1950 and together they had two children Edward Jones Currie Jr and Susan Annah Currie, whom they raised in Jackson. After Edward passed away in 1957, Nell worked tirelessly with many sacrifices to support and provide for her children. She set an example of dedication, perseverance and strength for all who knew her. She was warm, loving, with a great sense of humor and was deeply spiritual. Nell is survived by her two children Edward Currie Jr of Jackson, MS and Susan Currie (Chris McNamara) of Ithaca, NY, two grandchildren Morgan Currie (Tommy Danbury), and Scott (Sarah) Currie, as well as two great grandchildren: Rowan Simone Danbury and Miller Edward Currie. Nell is also survived by several nieces and nephews. Nell was pre-deceased by her daughter-in-law Barbara Currie and by her husband Edward J Currie. Funeral services will be held at First Presbyterian Church of Jackson, 1390 North State Street, Jackson Mississippi 39202 on Thursday November 5th at 11 a.m. A visitation will follow and burial will be at 3pm in Monticello, Mississippi. In lieu of flowers please consider a donation to Tompkins County Public Library, 101 East Green Street, Ithaca New York, 14850 (<http://www.tcplfoundation.org/>) or to the Barb Currie Diversity Scholarship Fund, 11812 N. 56th Street, Tampa Florida 33617. The family would like to thank the staff at the Arbor and St Dominic's Hospital for all their attention and care.

In Memoriam002



Express your condolences...

ithacajournal.com/obituaries

Larry Rosica
10/25/39-11/1/14

I love and miss you more than you'll ever know.
Kathy

Tickets

Continued from Page 1A

exactly how many tickets were purchased, at what price and how exactly he obtained them," McLaughlin, a vocal Cuomo critic, wrote.

Cuomo campaign was initially selling tickets for about \$5,500 each at Citi Field, with the proceeds going to the Democratic governor's campaign. The fundraising

appeal included a reception prior to games 3 and 4 between the Mets and Kansas City Royals.

The campaign, though, canceled the events, saying it wanted to release the tickets to the general public. Cuomo's campaign was criticized by good-government groups for the fundraising effort.

The campaign said it bought the tickets at face value and that the fundraising was legal.

"This is the usual sort of grandstanding that we've come to expect from Steve McLaughlin,

Artist

Continued from Page 3A

"We are doing a farm to art connection and we hope to get a little of our own beeswax," art teacher Brookley Spanbauer wrote. "The whole idea of using our own hives to make our own pigments to make our own art is something Kohlene will show us how to do."

Using locally sourced and sustainable materials will connect the students directly to the art-making process from start to finish.

Hendrickson is enthused about teaching the classes.

"It is a really exciting paint, it is very rare that people don't fall in love with it," Hendrickson said. "I love that it is natural, but it is so rich. There is a smell that goes into the house when you're painting with it, from the beeswax that is so beautiful."

Hendrickson also uses watercolor paints and oil crayons that she encases in wax.

"I draw really well," she said. "I am a colorist, but I was looking for something that is rich enough that doesn't need to be put under glass. It took me many years to put together what works to express my vision with the movement, color and richness that I wanted."

Hendrickson will be staying in Groton

through the month; teaching and working on two large panels which will be revealed at an opening reception from 7-10 p.m. Thursday at The Groton Gallery, 105 Main St. All are invited to come and enjoy the amazing encaustic mixed media & frescos, along with wine, cheese, and music in lovely downtown Groton.

Community forum

The results of a student survey will be revealed at a Groton Community Forum: "So How Are the Children?" at 7 p.m. Wednesday in the Groton Elementary School cafeteria.

This survey was administered to Groton students in grades 7 through 12, and their answers are somewhat surprising and provocative. Those who attend will learn about student drug and alcohol use, and where Groton students compare to both to Tompkins County and nationally, as well as how students really feel about their school and their community.

The forum promises to be interesting and interactive. Free child care and pizza will be available.

'Doctor Who' at the library

The Groton Public Library will be the venue for a "Doctor Who Event" from 7 to 9:30 p.m. Friday. The two part episode, "Dark Water/Death in Heaven" starring Peter

who always attacks the governor on days that end with 'y,'" campaign spokesman Austin Shafan said in a statement. "However, this is the first time I've seen someone call for an investigation into something that even they say is legal."

But McLaughlin said the tickets deserve further scrutiny, saying the Mets also have had business before the state.

In 2010, then-Gov. David Paterson was fined \$62,125 for soliciting and accepting five free tickets to the first game of

the 2009 World Series.

"As you may be aware, Mets fans are subject to a lottery in order to obtain World Series tickets due to their scarcity and demand, and the news of a wealthy politician cutting corners is disconcerting and frustrating to many Mets fans and constituents alike," McLaughlin wrote.

The World Series ended early Monday, with the Royals winning the series 3-1.

Follow Joseph Spector on Twitter @GannettAlbany.

Capaldi and Jenna Coleman will be shown. The Doctor finally comes face to face with the mysterious Missy, who has been laying the groundwork for a dastardly scheme. Left with no other choice, old friends must unite against old enemies as the Cybermen terrorize the streets of London. Doctor Who collectibles will be on display. This event is free and open to all, and refreshments will be served.

Snowmobile show and swap

While most of us shudder at the very thought of the snow that will soon grace us with its presence for several months, the members of the Groton Ridge Runners Club are among those who look forward to it with great anticipation.

To that end, the club will be hosting a vintage snowmobile show and swap meet from 9 a.m. to 3 p.m. Saturday at the Living History Center Museum, 4386 US Rt. 11, Cortland. The theme is antique sleds, so bring your sleds, parts, clothing and memorabilia to show or sell. The museum is home to Brockway Trucks, old tractors, and military history. There will be reduced admission to the museum during the sled show.

Spectators to the sled show may attend for free. There will be plenty of fun, food, door prizes, and more. Classes will be judged and awards presented. Registration fees

are \$5 for one sled, \$10 for 2 or more. Vendors/swap meet fee is \$10. For more information, please call Lee at (607) 898-4168.

Planning board vacancies

The Groton Town Board is seeking an individual to fill a vacancy on the Town of Groton Planning Board. Applications are available at the Town Clerk's office, 101 Conger Blvd., or townofgrotonny.org. The application deadline is Nov. 12.

There is also a vacancy on the Village of Groton Planning Board. This board has the authority to approve subdivisions, special use permits, and site plans. It also acts as a review and advisory board to the Village of Groton Board for proposed changes in zoning and comprehensive plan.

Prospective candidates must submit a letter of interest no later than Nov. 13 to: Christopher Neville, Mayor, Village of Groton, PO Box 100, Groton, NY 13073.

Leaf pickup

The Village of Groton will be picking up leaves throughout the month of November. Please rake leaves only to the curb or side street. They will not pick up plastic bags, brush, or vines.

Groton Town Talk appears weekly. Submit items to Linda Competello, (607) 227-4922 or lmc10@cornell.edu.