Asian clam was found in Lake George this past August. A Rapid Response Task Force has been formed to coordinate efforts to eradicate this new invader from Lake George before it has a chance to take hold.

A pilot study to test a number of different types of benthic barrier mats and their effectiveness in smothering the clams is currently underway at two shallow water sites in Lake George in Lake George Village. Monitoring and evaluation of the locations will help determine how to move forward in the spring with control efforts. Timing will be crucial; the clams can begin to reproduce again when temperatures reach 15°C, which is around mid-May in Lake George. So there will be a narrow window this spring between ice-out and when the water temperature warms to implement a plan of action.

**What is the Asian clam?**
The Asian clam, *Corbicula fluminea*, is a small bivalve that is native to southern Asia, the eastern Mediterranean, and Australia. They are small, usually less than 1.5 inches in size, and have a light tan or brown shell (color varies) with distinctive concentric ridges.

**Asian Clam Rapid Response Timeline**

**August 19**
Asian clams found off Lake Avenue Beach.

**August 20-22**
Initial surveys. Up to 600 clams per square meter were documented, total invasion covering an area of approx. 2.5 acres.

**August 25**
First meeting of Task Force.

**September**
Additional surveys for details of infestation at Lake Avenue site. Size of infestation now estimated to be around 4 acres. Over 8,000 clams per square meter documented.

**September 28 & 29**
Scientists from Lake Tahoe visit to share their experience with battling Asian clam.

**October 9 & 10**
Mats for pilot study are installed at Lake Avenue & Park Lane sites.

**October 25**
Removed first section of mats. Initial results - lots of dead clams!

**October & November**
Water from under mats sampled every 5 days. Some mats removed at day 15, 30, and 45.

**Early December**
Meeting of Task Force to discuss results of pilot study and begin planning for full scale spring effort.
Asian clams greatly impact water quality because they can remove insoluble phosphorous from the bottom sediment and release it back into the water column, making it readily available to algae. In Lake Tahoe researchers first discovered the Asian clam in 2002, but control measures were not started until years later after algal blooms over Asian clam beds were being reported. Lake Tahoe is now past the point where eradication is possible. They have spent $1.4 million working to manage and control clam populations in areas of greatest impact to the lake’s fragile clarity.

Researchers in Lake Tahoe who have advised the Lake George Task Force agree that eradication of Asian clam in Lake George is still possible if we act quickly. Eradication of this new invader now will save Lake George millions of dollars in control and management efforts and losses from declining water quality, tourism and recreational use, and property values in the future.

Asian clams are efficient filter feeders capable of rapid growth. This means they can:

- **Impact water quality by promoting algal blooms**
  Asian clams excrete high amounts of nitrogen and phosphorus, making it readily available to algae. Lake Tahoe, which is also known for exceptionally clear water, is now experiencing algal blooms over their clam beds.

  *Some photos of the Asian clams and algae in Lake Tahoe.*

- **Facilitate more invasions**
  Asian clam shells provide a hard surface for zebra mussels to attach to. The shells also supply a localized source of calcium, making beds of Asian clam shells an ideal habitat for zebra mussels.

- **Clog pipes and litter beaches with dead shells**
  As the clams die, their shells pile up, and can clog pipes or cover sandy beaches. And dead clams don’t smell good, trust us!

- **Outcompete native mollusks**
  Lake George has a great diversity of native mollusks. Our native mussels grow slowly and can live for decades. They aren’t equipped to compete with fast growing Asian clams for food and space.

  *Stay tuned for the next update this winter after the results of the pilot study are in!*

The good news is that we are at the detection point on the curve - which means now is the time to act!