

Procedures for Cleaning Cisterns and Hauled Water Storage Tanks

Cisterns and hauled water storage tanks should be thoroughly cleaned periodically. How often this is done is going to be dependent on the area in which you live. Because cisterns collect rainwater off of the roof they are subject to varying amounts of potential contamination. In areas where there are large trees overhanging the roof area, or in areas where there is a lot of industrial activity, cistern cleaning should be performed more often. Cisterns in these types of areas should be cleaned every three to five years, but they may be cleaned more often if there is a desire or a need to do so. Hauled water storage tank systems that use exclusively hauled water will not require cleaning nearly as often as cisterns if care is taken when re-filling occurs.

***Entering an enclosed space such as a cistern or hauled water storage tank for cleaning can be a dangerous procedure without adequate ventilation. We recommend that a qualified registered Private Water Systems Contractor carry out these procedures and observe enclosed space entry guidelines.**

Steps:

1. Drain **all** of the old water from the tank.
2. Provide adequate ventilation by use of a fan or other mechanism.
3. Enter the inside of the tank. Make sure someone is around to provide assistance if required.
4. Physically remove all debris from the bottom and sides of tank.
5. With a stiff brush or power washer, scrub the walls and floor with an unscented chlorine water solution of sufficient strength to remove any bacterial slime and mineral incrustation.
6. Leave the inside of the tank and then rinse the walls with a strong chlorine water solution of 1000 parts per million. This can be obtained by mixing two gallon of 5.25% unscented chlorine bleach per each one hundred gallons of water. Let the water stand in the bottom of tank for at least 8 hours.
7. Clean or replace the floating intake filter. Roof washer filters should be inspected and cleaned twice per year.
8. Circulate the chlorine solution throughout the distribution system and let stand for at Least 8 hours.
9. Evacuate the rinse water.
10. Refill the tank with chlorinated water hauled in from a public water supply.
11. If continuous disinfection is by chemical means, re-calibrate the disinfection system and check the disinfectant residual. Residuals from chlorine shall be at least 0.2 ppm, iodine at least 0.5 ppm, and ozone at least 0.1 ppm. Homeowners are required to have a chemical test kit for monitoring the type of system in use.

If you do not want to tackle this process yourself, there are individual contractors in the area who perform cistern cleaning services. The following individuals have advised us that they perform this service for a fee:

Cistern Health, LLC	513-934-3882
Nathan Taulbee	937-289-9471
Dwayne Stratton	937-466-2486
Thaler Cistern and Pump	513-738-4411

When flushing the tank at the end of this process, please do not run this water into your sewage treatment system as it will likely cause the system to fail. Instead, pump the water to a road ditch or drainage swale.

If you have any questions please contact our office at 513-695-1220 or 937-425-1220.

Warren County Combined Health District