

WATER SYSTEMS, REQUIREMENTS AND TESTING LOCATIONS

Regulations

Holder shall operate water systems in accordance with Illinois Department of Environmental Quality, Drinking Water Program and Forest Service regulations. Each host at a campground with a drinking water system will be required to have a copy of these regulations. Copies of the State regulations may be obtained at:

Illinois Department of Public Health
Marion Regional Office
2309 West Main, Suite 106
Marion, IL 62959
(618) 993-7010

Copies of Forest Service regulations will be provided by the permit administrator.

General Operations

Forest Service:

The Forest Service will provide water system logs, keys, any valve wrenches and the like at the beginning of the season.

Forest Service will provide technical advice and assistance when operation and maintenance problems arise.

The Forest Service will monitor Holder for compliance with routine water testing requirements.

Holder:

Maintenance Standards for Water Fountains/Hydrants

- 1) All units and faucets drip free and operating properly,
- 2) Catch basins free of food particles, soap, grease, debris and standing water,
- 3) Painted surfaces clean.
- 4) Any damaged or stolen spigots will be replaced with the same model of spigot that currently exists.
- 5) Any spigot posts will not be painted, but will be kept clean of moss and algae.

General Standards

Faucets and drains will be cleaned and maintained as needed. Drain areas at faucets and any well pumps should adequately drain. Dig out and replace gravel as needed. Also dig out and replace gravel in any gray water sumps as needed. Disposal sites for contaminated gravel to be approved by the Forest Service.

Bacteriological Testing

At the beginning of the season the Holder is required to properly flush the water system, exercise all valves, close drains, install faucets if required, properly disinfect the system and take a “Pre-Season, Special” water test. The test shall be analyzed by a State approved laboratory. If the water test meets the requirements then the Holder may open the water system for public use. The Holder is required to take monthly “Routine” water tests for coliform each month the system is open including the first month and have them analyzed by a State approved laboratory. If the “Pre-Season Special” water test is taken the same month the system is opened the Holder is still required to take a monthly “Routine” test for the month as well.

If the “Pre-Season Special” test is unsatisfactory a condition survey should be conducted on the system, the system should be disinfected again and another “Special” Coliform test taken. The Forest Service should be notified. In the event of an unsatisfactory monthly “Routine” sample, the Holder shall take four (4) “Repeat” tests within 24 hours of being notified of the bad sample. Samples shall be taken according to the current Coliform Water Sampling Plan for the site. The Holder shall notify the Permit Administrator or the Forest's Environmental Engineer upon notification of a bad sample. Proper notices shall be posted and mailed to the State and Forest Service as required by State and Federal regulations.

When a monthly “Routine” Coliform test is unsatisfactory the Holder is required to take five (5) “Routine” tests the following month as followup. The regular monthly “Routine” test is included as part of these five tests. The five tests should be spread out over the entire month not taken all on the same day.

When “Repeat” tests samples are unsatisfactory the system is in “Violation” with State and Forest Service standards. A condition survey of the system should be performed. Take corrective actions as needed. The Holder shall take daily “Special” samples until two consecutive samples come back satisfactory. If three “Special” samples come back unsatisfactory the system shall be closed until the problem is contained and corrected. The Forest Service shall be notified throughout this process.

If the “Repeat” test samples are unsatisfactory and are positive for Fecal Coliform or if the “Routine” test was positive for Fecal Coliform and the “Repeat” tests are unsatisfactory then the Holder shall immediately close the system, notify the Forest Service and perform a condition survey on the water system. Once corrective actions are taken and two consecutive daily “Special” samples are satisfactory, the system may be reopened.

The Holder shall send a copy of all test results to the Permit Administrator located at the Hidden Springs Ranger Station, 602 N. 1st St., Vienna, IL, 62995 (618) 658-2111.

Nitrate Testing

The Holder shall arrange for a State approved laboratory to analyze water for nitrates annually. The FS will receive one copy of the results. The Holder should plan to take the annual Nitrate test in the first part of the season.

Coliform Sampling Plan

The Forest Service will provide a copy of the current Coliform Sampling Plan for each site. The Holder shall ensure that all monthly and any follow-up testing that is required will be taken as outlined in the Sampling Plan.

Monetary Responsibilities

The Holder assumes all monetary responsibilities for bacteriological and nitrate sampling and testing as well as expenses related to posting notices and mailing copies of notices to the State and Forest Service.

Backup Water Sampler

The Holder will designate a primary and backup sampler by name in writing.

System Start-Up, Draining and Winterizing

The Holder shall start-up, drain and winterize water systems in campgrounds and areas that have been closed during the winter/closed season. Forest Service personnel will assist in this operation in the first year of the Authorization. In subsequent years it will be the Holder's responsibility, with only consulting help from the FS.

Holder shall install and remove pump handles at the beginning and ending of the season on hand pump systems.

Maintenance

Holder shall perform maintenance to water systems, such as replacing leaking or damaged faucets, repacking pump shafts, replacing broken space heaters in pump houses, replacing lost valve wrenches, repairing hand pumps and hand pump components and maintaining pump houses in clean, sanitary, and orderly condition.

The Holder will furnish all materials, labor, and equipment to maintain the water system within the campground Authorization boundary, with the exception of repair and replacement listed under Forest Service responsibilities.

The Holder shall arrange to perform maintenance to assure the long-term reliability and function of the systems. This includes, but is not limited to, maintaining or replacing line valves, drain valves, air relief valves, valve boxes, pumps, motors, controls, damaged fittings and pipe, broken instruments, circuit breakers, electrical contactors, electrical disconnects, heaters, light bulbs,

hand pump handles, cylinders, rods and shrouds. Specific work to be accomplished at each site will be agreed to between parties.

The Holder shall furnish all materials, labor and fixtures for general maintenance of the water system within the Authorization boundary, with the exception of repair and replacement listed under FS responsibilities.

The **Lake Glendale Recreation Area's** water system, to include the **Oak Point and Duck Bay Campgrounds, Goose Bay and Pine Point Picnic Areas, and the beach house/concession** are all supplied by a municipal water source, Millstone Water District. The water lines at the beach house are drained prior to winter's first freeze.

The **Redbud Campground** water system consists of an in-ground cistern tank with hand pump. Water is supplied by the concessionaire who delivers it after obtaining it from the Millstone Water District located at Eddyville, IL.

Contacts

Illinois Department of Public Health
Marion Regional Office
2309 West Main, Suite 106
Marion, IL 62959
(618) 993-7010

Illinois Department of Public Health
Carbondale Lab
David Douglas
(618) 457-5131

Millstone Water District
Main St.
Eddyville, IL 62928
(618) 672-4228