

GUIDANCE FOR FLURIDONE RESIDUE SAMPLING

Sampling Equipment

- Water bottles (125 ml) with labels
- Data sheets and lake map
- Containers for shipping water samples
- Boat - one that has not been used to apply fluridone.

Sample Kits and Handling

Sample kits are available from SePRO Corporation and Cygnet Enterprises, Inc. The kits contain the sample bottle and data sheets. Water samples and data sheets should be mailed to the appropriate laboratory immediately following sample collection. Results of the analyses will be provided to the permittee and it is the permittee's responsibility to provide the results to the Department of Environmental Quality within 10 working days of the sample date.

Sampling Technique

Take care that sampling equipment, bottles, and your hands are not contaminated with fluridone or any other materials that may interfere with sample analysis. Samples should not be collected in water that is highly turbid. Remove the bottle cap and submerge the bottle upside down until elbow deep (approximately one foot below the surface). Turn bottle over and allow it to fill, return it to the surface, fasten the cap and place the bottle immediately into a dark cooler containing ice. Label samples with the lake name, site number, and the collection date and time. Also record the treatment date and the collection date and time on the data sheet.

Number and Locations of Sampling Sites

LAKES

Lakes less than or equal to 300 acres - four or more sampling sites.

- All sites should be located near shore (at least 40 feet from shore in water greater than 5 feet deep) in a rectangular pattern around the lake.
- If there are one to three canals, add one sample site in a canal. If there are more than four canals, collect samples from 25 percent of the canals.

Lakes between 300 and 500 acres - five or more sampling sites

- All five sites should be located near shore (at least 40 feet from shore in water greater than 5 feet deep) and evenly spaced around the lake.
- If there are one to three canals, add one sample site in a canal. If there are more than four canals, collect samples from only 25 percent of the canals.

Lakes greater than 500 acres - The number and location of sampling sites will be determined on a case-by-case basis

The number and location of sampling sites for fall fluridone treatments will be determined on a case-by-case basis.

PONDS

Each pond will have one sampling site in the center. Additional sites may be added on a case-by-case basis.

The permit applicant must provide a lake or pond map indicating the location of the sampling sites and their identification number. The approved sample location map will be attached to the permit.

Sampling Sites

Water samples for fluridone residue analysis will be collected as follows:

- Discrete surface samples throughout the near shore zone should be taken as described in Sampling Technique.
 - Sampling locations are identified on the approved sampling site map. Throughout the duration of the sampling period, the same locations must be used.

Sampling Frequency

LAKES AND PONDS

Application at 6 ppb with a one time bump-up treatment to raise the concentration back to 6 ppb.

1. Sample all sites between 48 and 60 hours after the initial treatment.
2. Sample all sites at 14 days post-treatment.
3. Sample all sites at 30 days post initial treatment.
4. Sample all sites at 60 days post initial treatment.