

## 2021 Integrated Pesticide Management (IMP) Report Input re: Lake Lawrence

### **Lake Management**

Lake Lawrence Vegetation Monitoring Weed surveys were conducted monthly from April through August on Lake Lawrence, and post survey monitoring was conducted following herbicide treatments. The lake is divided into 12 treatment zones along the shoreline. Weeds were assessed visually, and by dragging a rake along the lake bottom several times in each zone to reveal submerged vegetation species and to assign a density rating. Lake Lawrence uses a numerical scale ranging from 1-4 (low to high) to specify the density of vegetation growth. Data is collected in each zone to assess herbicide treatment needs, and to track species shifts.

### **Control Work in 2021**

Lawrence Lake experienced heavy pondweed growth by early spring (April). By early April Elodea and Narrow Leaf Pondweeds had grown into large nearly mono-specific patches. By May we had thick patches. Big leaf and Curly pondweeds grew less densely in a few areas. We treated 25 acres with Sonar on 14 May, 4 June and 23 June 2021, however the Elodea was so dense it was not effective. Later in the summer, when the Elodea started dying off Tape Grass took hold in the north end of the lake and several other areas. We also noticed a resurgence of Sago Pondweed in the southeast end of the lake. Pond Lilies were not treated in 2021. By late summer (August) we saw many small patches of Fragrant Water Lily and removed many by pulling them. Yellow Flag Iris was again targeted around the entire shoreline from 17 May to 2 June 2021 using 2.06 gallons of Imazapyr. In 2020 we used 3.5 gallons. Post monitoring surveys revealed good control was achieved. We are making huge strides in eliminating Yellow Flag Iris from our shorelines. One area remains a problem – the pasture adjacent to the south end of the lake owned by Hoot Owl Ranch. Our Aquatic Resource Specialist will work with Hoot Owl Ranch in 2022 to target the Yellow Flag Iris in that area.

### **Education, Outreach, Water Quality Efforts**

Lake Lawrence held four LMD meetings in 2021 in which lake related activities and needs are discussed. The Annual Members meeting on 6 May 2021 was held virtually due to COVID-19. Jane Montjoy-Venning, Department of Environmental Health provided a briefing to our members on Septic System issues/Problems/Suggested Corrective Action, Septic System Inspections – Current County Policy, Water Quality Issues – Causes/Concerns/What we can do to help and Algae Concerns/Notifications. A copy of her briefing was then sent out to all LMD members and HOA Boards for dissemination through their contact lists. The LMD Survey Committee conducted 5 Lake Surveys that included LMD members to educate them on the lake, plants, wildlife. A lake cleanup party was held on 22 May 2021 from 8 a.m. to 2 pm. that included 13 members with 5 boats. The crew picked up over 2 tons of debris from the lake including 16 - 40-gallon trash bags of debris, three derelict boat docks, a large quantity of Styrofoam boat dock floats, a boat console and a boat seat, tires, vehicle transmission, etc.



Some of the debris collected during the lake clean up on 22 May

Throughout the Spring and Summer email notifications were sent to all shoreline residents asking them to remain vigilant in not utilizing fertilizer on their lawns and pesticides around the water. Email notifications were also sent to all LMD members to be alert for an invasive species known as a “Zebra Mussel”.

In August 2021 a Geese Reduction Committee was formed to research ways to reduce the resident geese population at Lake Lawrence. This committee is working with US Department of Agriculture, Washington Department of Fish and Wildlife and Thurston County Sheriff’s Department. Email messages and conversations during LMD Meetings have disseminated information on “Swimmer’s Itch” and it’s causes, prevention and remedies.

LMD members have removed 5 Yellow Flag Iris floating islands and two mud islands from the lake in 2021.

