

Lake Owen Association Lake Manager Activities Report Board Update June 21, 2022

Lake Protection Grant Update

Grant runs to 12/31/2022.

With expenses through 6/21/2022, remaining grant available is \$22,509 which requires expenditures of \$30,013 to claim reimbursement. Estimate of project expenses through 12/31/2022 totals \$43,825.50.

This leaves a budget deficit of \$13, 813 and a required match of \$7,503.

Above does not include normal LOA administration and social functions or the CBCW program.

Boat Landing AIS Prevention: Decontamination Stations, etc.

2022 staff were trained in sessions held May 20 and June 7. We have two staff working primarily at the Two Lakes Campground: Gary Gustafson and Sarah Sisco. Both have previous Clean Boats, Clean Waters experience and will operate the bleach station. The bleach station will be installed week of June 27. Two additional staff work at the North Outlet Landing operating the hot water pressure washer: Zach Desroisers (lead) and Robert (Caleb) Fox.

North Outlet: to be staffed 7 days a week. Mon.-Thurs. 7-3 and Fri – Sun 7-5 (depending on staff availability).

Preliminary numbers of boats washed 5/27/22 to 6/20/22: 22. This is the same number of boats washed in the 5 month period from May 1 – October 6, 2021. Addie Arens is entering inspection reports this year.

Campground: Fri. 10-6, Sat.7-3, and Sun. 7-1

Otter Bay Tournament Coverage: GARY OTTER BAY 6A-9A, GARY CAMP 9-1P, CALEB 7-6 NL

Lake Owen Science Update

There have been a few important events taking place in regard to science in Lake Owen. These include the deployment of the temperature profiler (thermistor string), the installation of the lake staff pressure transducer, and the training of the new Lake Owen data collector.

Thermistor string:

The thermistor string was installed and seems to be functioning well. We put it at a depth of 25 meters, with a temperature logger at the surface, and every two meters to one meter above the bottom. Each temperature probe will measure the temperature and store it every 12 hours. Many have likely seen the orange buoy which marks its location. We will leave the string installed until close to the lake freeze up. The data will be graphed and archived. The plan is to continue with this data collection annually for as long as possible.

Lake stage:

We purchased a pressure transducer for the Lake Owen Association that they can use for years to come. The instrument measures the lake depth every hour and logs the reading which can be obtained at the end of the season. The plan is to leave this installed all year to measure the depth and outflow volume all year long. This data has been collected in the past studies, but Ecological Integrity needed transducers for other projects so it was removed. Now the Lake Association has its own. Ecological Integrity will continue to acquire and summarize the data.

Trained data collector:

Paul Rhodes, a Lake Owen resident, has agreed to be hired by Ecological Integrity to collect much of the in-lake data on Lake Owen from June through October. This will give us a reliable person to collect data during this time and increases cost efficiency since Paul is already on the Lake. We had a 3-hour training session with Paul last week and all indications are he will be excellent. He is a quick learner and is very interested in the workings of the Lake Owen ecosystem.

Other information:

- Late winter phosphorus results showed extremely low levels of phosphorus were present in March (below the detection level of the test), which indicates the groundwater concentration is low and that without runoff (and atmospheric deposition), the lake is VERY low in nutrients.
- Spring turnover results are not back yet so we can't report on those. June samples were collected and sent in recently.
- There was a lot of debris clogging the outlet drain that we removed when we monitored the outflow.
- Secchi depth in South Basin (at thermistor string) last week was 8.5 meters (that's nearly 28 feet)!