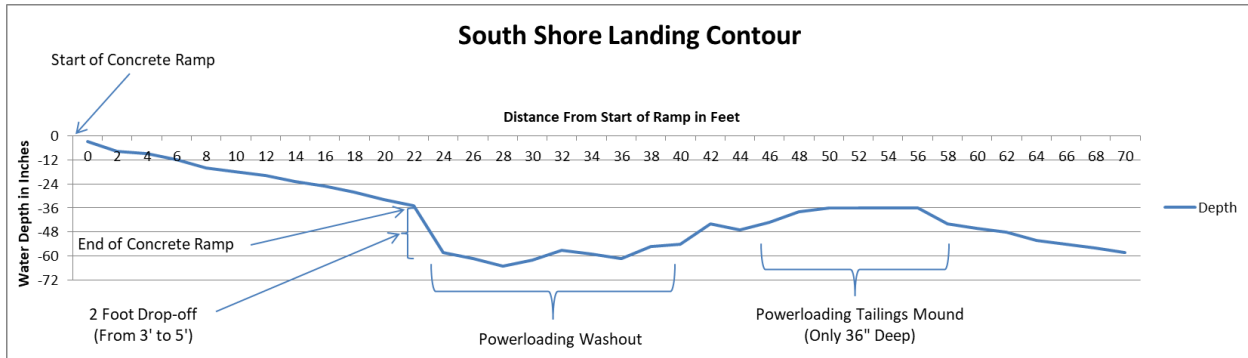


UPPER POST LAKE SOUTH SHORE LANDING IMPROVEMENTS

(August 7, 2021)

ISSUES WITH THE LAUNCH AREA



1. The launch has an 18' to 20' long washout at the lake side end of the concrete ramp. This washout is caused by people power loading boats onto their trailers. The washout drops from 3 feet at the end of the concrete ramp to more than 5 feet in depth. The washed-out materials have been deposited in a 20-foot long tailings mound, located approximately 40 feet from shore. This tailing mound has a depth of as little as 3 feet. Please see the contour mapping above. Boat trailers have been known to get hung up on the ramp drop-off and boat motors props often hit the tailings mound.
2. Each year winter Ice pushes the existing concrete boat ramp further and further onto shore. The Town of Elcho maintenance staff has been able to manage this issue by adding gravel to the front of the ramp to smooth out the ramps transition to the gravel approach.
3. There presently is no rain runoff management from the slope of the boat landing. The DNR will require an engineered runoff management plan should any major reconstruction take place.
4. The lake is required to have at least one boat launch that meets ADA accessibility standards. Post Lake presently does not have a launch that meets ADA standards. The South Shore Landing has been designated as the lakes ADA accessible landing. The DNR will require an engineered plan for ADA accessibility for any major boat launch improvements.

MAJOR IMPROVEMENT OPTIONS

MSA Engineering has provided a preliminary estimate of \$284,000 for the renovation of the boat landing. Below are two funding options that may be available to the Lake District.

Funding Option #1

PLP&RD share of the project	\$142,000
State RBF grant	<u>\$142,000</u>
Total Cost	\$284,000

Funding Option #2

PLP&RD share of the project	\$ 42,000
State (RBF) Grant	\$142,000
Federal (SFR) Grant	<u>\$100,000</u> (We are not likely to obtain this grant)
Total Cost	\$284,000

Other Possible Options

1. Do nothing and wait until problems become unmanageable.
2. Fill-in the washout area with 6" to 24" clean quarry stone and remove the tailings pile. There would be no DNR permit required should the Lake District elect to manually remove the tailings pile with hand shovels and pails (No Excavating Equipment). If excavation equipment is to be used to remove the tailing pile a DNR Dredging Permit would be required at a cost of \$303. This approach does not address the runoff management issues, the ADA issues, or the ice push issue.