



REACH Goss Lake

Goss Lake

LAKE AREA

54 Acres

SHORELINE LENGTH:

1.63 Miles

REACH AREA:

40 Acres

PSNERP PROCESS UNITS:

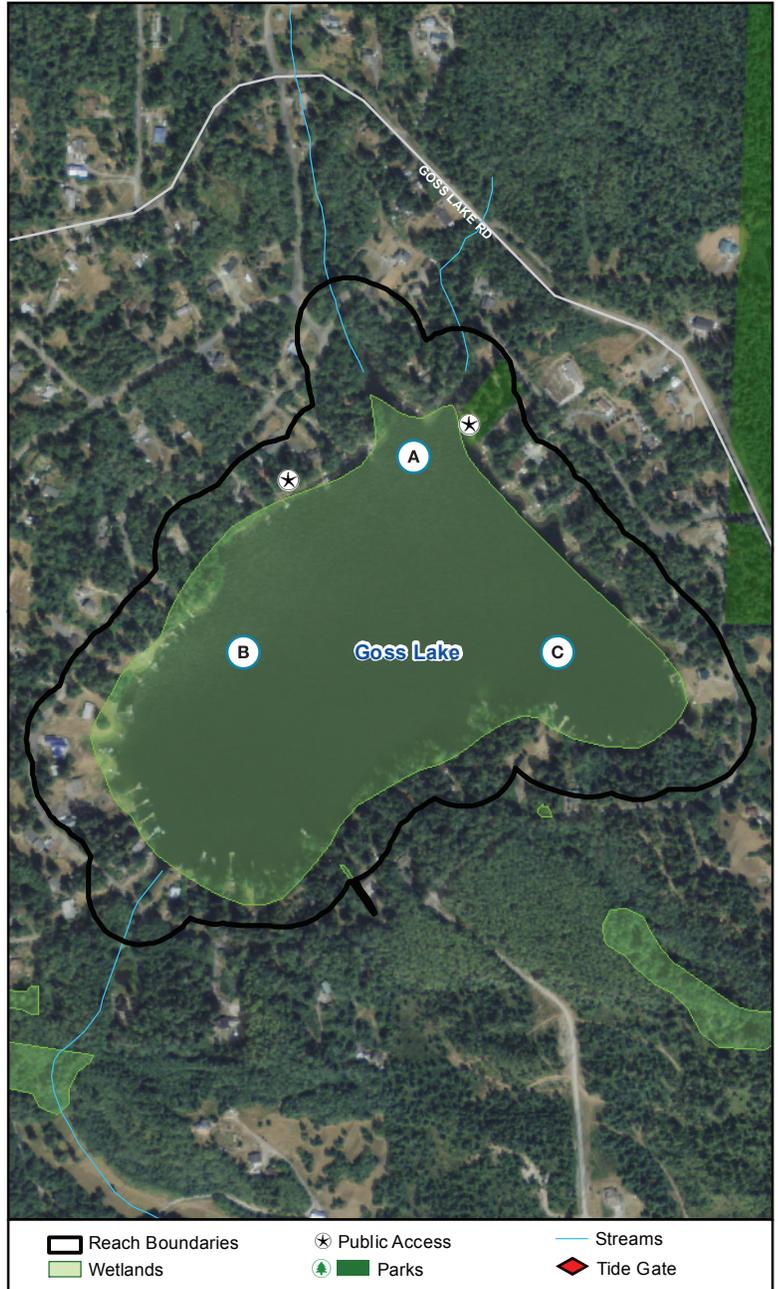
6007 & 6004

REACH SUMMARY

Goss Lake is located on Whidbey Island, three miles west of Langley and to the northwest of Lone Lake. Three intermittent streams contribute minor inflow early in the year and there is no surface outlet.

Goss Lake was classified as oligotrophic (trophic state) by Ecology during the late 1990s (Ecology, 1996). This was supported by high levels of water clarity and very little macrophytic vegetation or algae observed during Ecology monitoring visits. The Ecology 303(d) list includes Goss Lake as a Category 4C water for Invasive Exotic Species (Eurasian water-milfoil), indicating a habitat impairment not directly related to a monitored water quality parameter. WDFW maps the lake as a waterfowl concentration area.

Existing land use consists primarily of moderate density single family residential development, although an intact vegetation community remains throughout much of the lake area (Ecology, 1996 and aerial photography interpretation). Shoreline clearing and modification is most prevalent along the southwest shoreline and residential docks occur throughout much of the lake. There is no existing or undeveloped public access to the lake shoreline.



Shoreline Oblique Photos (© Microsoft Bing Maps, 2010)

PHYSICAL CHARACTERIZATION

Mean Lake Depth
32 ft

Maximum Lake Depth
60 ft

Lake Volume
1,504 Acre-Feet

Drainage Area
896 ft

Altitude Above Sea Level
130 Ft

Steep Slopes
9%

HABITATS & SPECIES

Wetlands (Map 4)
9%

Wetlands Waterward of OHWM (Map 4)
93%

Shoreland Priority Habitats & Species (Map 5)
Waterfowl Concentration

Salmonid Fish Use (Map 5)
Coho migration / presence along stream just below outlet.

LAND & SHORELINE USE

Shoreline Modifications (Map 13)
Modification consistent with lakeside residential development - clearing of riparian vegetation, fill and hardening (degree of modification varies from lot to lot).

Zoning (Map 11)
Rural Residential (99%); Rural (1.0%)

Public Access (Map 16)
Little existing or potential (undeveloped) public access; two public access sites at north end of lake.

Current Land Use (Map 12)
Number of Parcels 103 **Average Parcel Size** 1.16 Acres
Moderate density single family residential development. Very few undeveloped parcels; typical residential setback is varied (generally between 75 & 200 feet), however significant mixed forest riparian vegetation remains intact.

Overwater Structures (Map 14)
Approximately 45 relatively short private residential docks (consistently distributed along shoreline).

Water Quality
Invasive Exotic Species (Eurasian water-milfoil; Cat. 4C)

KEY MANAGEMENT ISSUES

- Continued monitoring and maintenance of water quality in the context of surface water runoff and nutrient inputs from the contributing basin.
- Managing intensity of additional residential development within the contributing basin, including shoreline areas, with focus on impacts associated with septic systems, removal of native vegetation and runoff from polluting generating sources (among other use implications).
- Conservation of intact riparian vegetation and restoration of limited degraded shoreline areas.
- Preservation and enhancement of native aquatic vegetation in the nearshore environment, with focus on control and eradication of invasive aquatic species.

RESTORATION OPPORTUNITIES

[Will be completed in next Draft.]