

## **Inventory & Characterization Report Supplement**

### Introduction

The information in this document is intended to supplement the 2013 Inventory & Characterization report developed as part of Thurston County's Shoreline Master Program update. It provides an inventory and characterization of water bodies that were not included in the original report, but are now proposed to be part of SMP jurisdiction.

The information contained herein was developed based on a review of County data resources housed within the Thurston Geodata Center.

### Modifications to Water Bodies in 2013 Inventory & Characterization

#### Naming Conventions

Ponds, lakes, and mines that were previously referred to as "Unknown" will now be referred to as "Unnamed" within the SMP and on map products. For example, "Unknown Mine 1" will now be "Unnamed Mine 1".

#### Revised Reach Break Information

##### A. Planning Commission Proposed Changes

At its January 6, 2021 meeting, the Planning Commission voted to amend Reach LLA 6-1 to bring the southern terminus of that reach down and incorporate the developed lots that are currently within Reach LLA 1-2. The reach break currently ends at the southern boundary of APN 22621340100. This change would bring the end of that reach down to the southern boundary of APN 22628140600. This would shrink Reach LLA 1-2 down to containing only two parcels, which would remain proposed Rural Conservancy.

This change resulted from the Planning Commission's consideration that the reach appears to feature two distinctly different types of land use: residential development, and wetlands, forest and agriculture.

##### B. Minor modifications of reach break locations to reflect jurisdiction changes

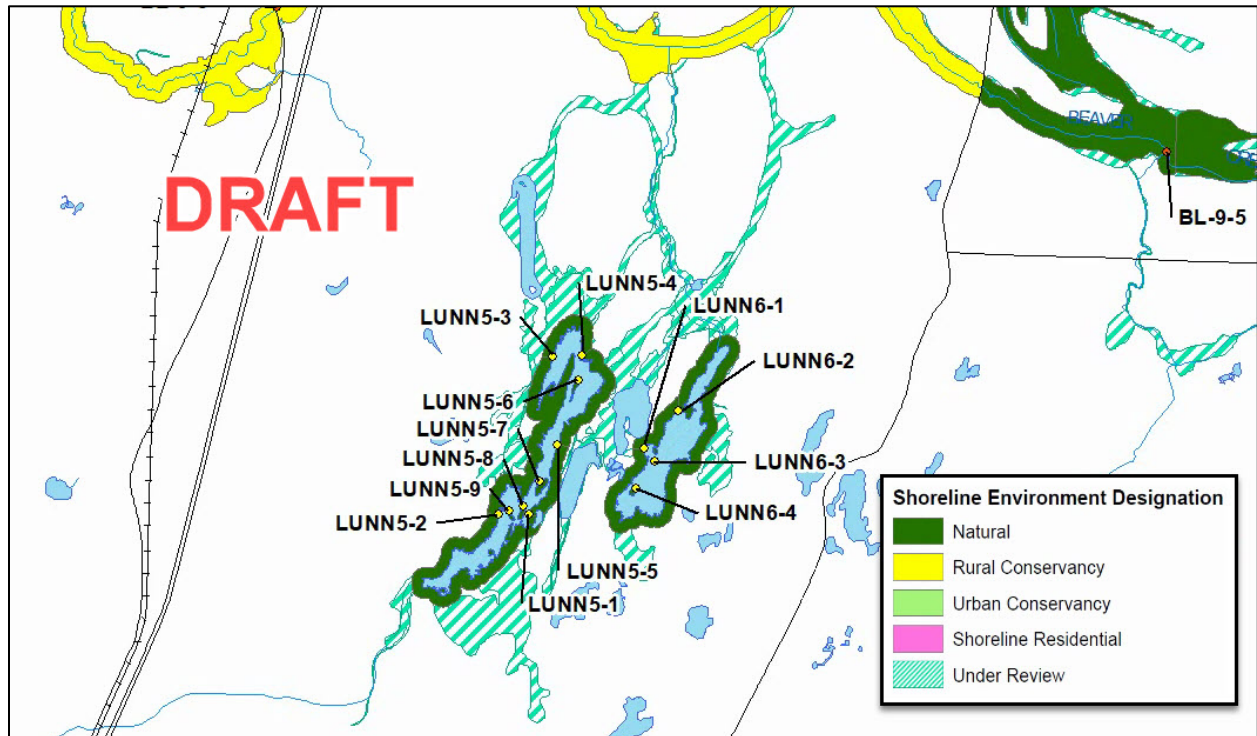
In instances where reach breaks had to be modified significantly (threshold? >10/50/100 ft?), the changes are listed below. (Is this appropriate or just have one broad blanket statement that changes may have occurred?)

Two previously identified reach breaks now fall within city jurisdictions and will be moved to reflect changes to the city boundaries. They include:

1. DE-2 (Tumwater jurisdiction)
2. SK-3 (Tumwater jurisdiction)

## Additions to Shoreline Jurisdiction

Two lakes are proposed to be added to shoreline jurisdiction based on analysis by staff and consultation with the Department of Ecology. They are depicted in the image below.



### Unnamed Lake 5

Unnamed Lake 5 is proposed to be included in the SMP as a jurisdictional lake. It contains 5.59 miles of shoreline and has been broken into nine reaches (LUNN-5-1 through LUNN-5-9). It is located in an area generally bounded by Tilley Road S., 163<sup>rd</sup> Ave. SW, Gibson Rd. SW and 140<sup>th</sup> Ave. SW.

Steep slopes are mapped along portions of the shoreline, and mapped floodplain and wetlands extend landward of the boundaries of the ordinary high water mark in many locations.

The area is mapped as a wood duck breeding area. Riparian vegetation around the lake appears to be largely intact close to the shoreline. There is evidence of logging on some parcels within the outer portions of shoreline jurisdiction. In these areas, vegetation closest to the shoreline consists is taller than the logged areas, and appears to contain mature trees. The north end of the lake contains a large wetland with vegetation that is lower in stature than the surrounding areas.

Primary land use appears to be undeveloped land and designated forest within shoreline jurisdiction. There does not appear to be residential development close to the shoreline of the lake. The area is zoned Rural Residential Resource 1/5.

There is no apparent shoreline armoring on the shorelines of this lake, or roads in shoreline jurisdiction. There are no mapped fish passage barriers. There is no known public access to this lake.

### Unnamed Lake 6

Unnamed Lake 6 is proposed to be included in the SMP as a jurisdictional lake. It contains 2.56 miles of shoreline and has been broken into four reaches (LUNN-6-1 through LUNN-6-4). It is located in an area generally bounded by Tilley Road S., 163<sup>rd</sup> Ave. SW, Gibson Rd. SW and 140<sup>th</sup> Ave. SW.

There are no steep slopes mapped adjacent to this lake. Mapped floodplain is largely contained within the mapped extent of the lake, though wetlands are mapped landward of the ordinary high water mark. One stream is mapped flowing out of the northern end of the lake.

The area is mapped as a wood duck breeding area. Riparian vegetation around the lake appears to be largely intact. There is some evidence of past logging activity on some parcels adjacent to the lake.

Primary land use appears to be undeveloped land and designated forest within shoreline jurisdiction. There does not appear to be residential development close to the shoreline of the lake, though there is a cluster of residential lots along the southeastern shoreline of the lake. The area is zoned Rural Residential Resource 1/5.

No shoreline armoring is apparent. There appear to be unpaved roads along the north and south ends of the lake, and one extending up a portion of the east side of the lake. There are no mapped fish passage barriers. There is no known public access to this lake.

### Removals

#### Lakes

Two lakes were originally mapped in the Thurston County Waterbodies layer as larger than 20 acres. Thurston County GeoData reviewed and updated the Waterbodies layer in 2021, these lakes were mapped and found to be less than 20 acres. Ecology reviewed these two locations and confirmed Thurston County's mapped lake delineations.

1. Unknown Pond 2 - Reach LPO2-1 – LPO2-1
2. Unknown Pond 3 - Reach LPO3-1 – LPO3-1

### Reach Breaks

There are 6 reach breaks that are no longer in Thurston County SMP jurisdiction due to city annexations since 2013. These reach breaks are:

1. DE-0 – DE-1 (portion of Deschutes River)
2. DE-1 – DE-2 (portion of Deschutes River)
3. LMU-1 – LMU-2 (Munn Lake)
4. LMU-2 – LMU-1 (Munn Lake)
5. LSO-1 – LSO-2 (Southwick Lake)
6. WO-5 – WO-6 (portion of Woodland Creek)

### Use of GPS Data Points to Mark Reach Boundaries

To allow staff to correctly determine the location of mapped reach breaks in the future, GPS points that correspond to each reach break were identified and will remain on file. These reference points will be useful in the future as the parcel layers used by the county shift over time.

### Changes to GIS Data Sources (Appendix C of Inventory & Characterization)

Some changes were made to the datasets used to define SMP jurisdiction. These changes are described below.

### Waterbodies

Thurston County Community Planning and Economic Development (CPED) and Thurston County GeoData staff are currently updating the Thurston County Waterbodies layer. The Thurston County Waterbodies data were originally created through digitization by the Thurston GeoData Center from the Thurston Comap, Assessor's Data dated 1990, and Tiger Files using rubber sheeting and aerial digitizing. While targeted updates have modified select features, the majority of the Thurston County Waterbodies layer reflects the 1990 data.

In 2021, Thurston County Community Planning and Economic Development (CPED) and Thurston County GeoData staff directed efforts to start the update of the Waterbodies data. The waterbodies are updated based on the extent of open water features as visible in 2011 or 2017 Light Detection and Ranging (LiDAR) data and aerial imagery from the corresponding year. The extents were determined by Kevin Hansen, Thurston County Hydrogeologist. The updates included the lakes in the Shoreline Master Program (SMP) update.

### Floodplains

Originally, the proposed SMP jurisdiction mapping used the 100-year floodplain. This was changed to include additional flood elements that are considered frequently flooded areas, including the flood of record and mapped high groundwater hazard areas. Frequently flooded areas are a category of critical area included in the County's Critical Areas Ordinance. The rationale for making this change in the SMP mapping is that any critical areas associated with shoreline waterbodies, including frequently flooded areas, are being brought in to SMP jurisdiction with this update.

### Wetlands

Originally, the proposed SMP jurisdiction mapping used the Thurston County wetlands layer to map wetlands associated with shoreline water bodies. The mapping layer was updated to include the Washington Department of Natural Resources wetlands layer, and National Wetlands Inventory layer. The combination of the three datasets provides the most comprehensive representation of wetlands in Thurston County. Additionally, these datasets are the datasets used by Thurston County staff in their evaluations of environmental characteristics of a property during permit applications. The presence, location and extent of wetlands is determined based on actual field investigation.

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