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In response to questions posed by the City of Poulsbo regarding stockpiling of salvaged soils and chipped vegetation, Osborn Consulting, Inc. recommends that the following revised text replace and clarify the description provided in the October 2021 version of the Oslo Bay Project Overall Impact and Mitigation Summary for the item “Erosion and stormwater management of stockpiles and soil amendment stockpiles” on page 12 of 54.

Proposed Mitigation:

- 1. Selection and salvage of only appropriate layers of existing soil for stockpiling.*
- 2. Best management practices for stockpiling including stockpile sizes and locations, required Stockpiling Management Plan, monitoring, aeration, and protection.*
- 3. Stockpiles will be located on Resultant Parcel IV which is zoned Light Industrial and is the site of the former Kitsap County Recycling Center.*
- 4. Salvaged soil and chipped woody debris will be used on site.*
- 5. Stockpiles will be temporary and only in place during the construction period and will be fully depleted and/or fully removed at the conclusion of construction.*

Notes:

Temporary soil and wood chip stockpiles are only proposed on Resultant Parcel IV (zoned Light Industrial). Soil stockpiles are not proposed on the Commercial or Residential Medium properties.

Due to the relatively shallow topsoil depths in existing Pacific Northwest forested conditions, with the top layers of duff and topsoil quickly transitioning to mineral soils (e.g., glacial till and clay), only the top 4 to 6 inches of existing soil will be salvaged after logging and stockpiled for reuse as planting soil on site. Other existing soils from the site will not be mixed with the stockpiled salvaged soils. No other materials, such as chipped or non-chipped vegetation or wood, will be mixed with the stockpiled soil.

Understory vegetation, tree branches, and stumps from the site clearing will be chipped for re-use as wood chip mulch for tree protection and planting bed areas. Wood chips will be stored in windrows separate from salvaged soils.

Salvaged soil and wood chips exceeding the required quantities necessary to complete the Work are to be removed from the site. It is estimated that approximately 16,000 cubic yards of salvaged soil and 5,000 cubic yards of salvaged wood chip will be stockpiled.

Stockpiling shall occur in conformance with the Project Specifications for stockpiling and a Stockpiling Management Plan is required from the Contractor at the start of the construction period. The Work and Stockpiling Management Plan shall be in conformance with all jurisdictional requirements. The following requirements will be listed in the Project Specifications:

- 1. Soil and wood chip stockpiles will typically measure, and be no larger than, 6' high x 12' wide windrows.*
- 2. Soil stockpiles will be seeded for erosion control. Any stockpiles not able to be seeded shall receive plastic covering meeting WSDOT requirements.*
- 3. Soil and chip stockpiles temperatures shall be tested weekly at a height of 2 feet vertical at the horizontal center of the stockpiles. Stockpiles registering a temperature of 175 degrees Fahrenheit or greater shall be watered for cooling.*

All stockpiled soil shall be tested by a licensed soil testing laboratory and shown to meet criteria appropriate for planting soil in this region before re-installation on site. The stockpiled soil may be further amended to meet the requirements of the soil test(s) for planting soil.

When subgrades in planting areas are achieved on site, they shall be scarified to a depth of 8 to 12" with compost tilled into the depth. Planting soil from the stockpiles will be installed in lifts and tilled into the compost-amended subgrade until finish grade is reached. If stockpiled soil runs out, additional approved planting soil will be provided. It is expected that the depth of planting soil for lawn areas will be 6" to 9" and the depth of planting soil for planting areas (trees, shrubs, and groundcovers) will be 12" to 18".

These are recommendations based on our professional experience and best management practices for temporary stockpiling. It is our professional opinion that the recommendations provided herein provide mitigation for the use of temporary stockpiling for the Oslo Bay Apartments project.