PETERMAN CONSULTING, LLC

Prepared for: Paul Li December 9th, 2022

Prepared by: Peterman Consulting, LLC Project No.: 251
12450 80th Ave S
Seattle, WA 98178

Re: 4657 86th Ave SE.: Stream and Wetland Reconnaissance Technical Memo

A Peterman Consulting biologist visited the property located at 4657 86th Ave SE (King County parcel No. 7598100545) in the City of Mercer Island on December 7th, 2022 and conducted a reconnaissance survey for the presence of streams and wetlands. The property is already developed with a single family residence and the surrounding neighborhood is mostly residential. The onsite vegetation is a mix of native and nonnative plants and is maintained with general landscaping and mowing.

The entire property was traversed and no wetlands were observed on the subject property that met the criteria for a wetland defined in the U.S. Army Corps of Engineers' (USACE) *Federal Wetland Delineation Manual* (1987), and the USACE's *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)* (2010), and the Mercer Island City Code under Chapter 19.07. Soil analysis pits were examined for hydric soil indicators (Figure 1). Soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper soil horizons are considered hydric soils. Field indicators include histosols, the presence of a histic epipedon, a sulfidic odor, low soil chroma, and gleying. Soil conditions were compared to the indicators detailed in the Corps Regional Supplement, *Field Indicators of Hydric Soils in the United States*. No indicators for hydric soils were observed in any of the soil pits. According to the Natural Resources Conservation Service's (NRCS) Web Soil Survey (NRCS 2022), the soils within the subject property are listed as being 100 percent Arents, Alderwood material and similar soils. Arents, Alderwood material is not designated as a hydric soil.

A review of the City of Mercer Island GIS Portal was conducted to identify any known critical areas within the vicinity of the subject property (GIS 2022). According to the GIS Portal, there are no wetlands or streams mapped on the subject property. The nearest stream is non-fish bearing and mapped offsite approximately 500 feet to the south. No critical area features are mapped on or within 300 feet of the subject property.

The U.S. Fish and Wildlife Service's National Wetlands Inventory (NWI) was queried to determine if previously-identified wetlands are present on or near the subject property (USFWS 2022). According to the NWI Interactive Online Mapper, there are no wetlands mapped

on the subject property. The nearest wetland feature is a riverine wetland mapped approximately 500 feet to the south.

The Washington Department of Fish and Wildlife's (WDFW) Priority Habitats and Species (PHS) database on-line mapper was queried to determine if state or federally listed fish or wildlife species occur on or near the subject property (WDFW 2022a). According to the PHS database, there are no other priority habitats or species mapped on or within 300 feet of the subject property. The nearest mapped habitat is Ellis Pond located approximately 1,500 feet to the northeast.

The Washington Department of Natural Resources' (WDNR) Forest Practice Application Mapping Tool on-line mapper was queried to identify the water typing of any streams mapped by WDNR (WDNR 2022). According to WDNR, there are no streams on the subject property. The nearest stream feature to the subject property is an unnamed stream, located approximately 500 feet to the south. The stream is designated as a Type N or non-fish bearing stream that does not have the potential to support fish habitat.

Figure 1. Critical Area Assessment Map

In summary, the site assessment performed on December 7th, 2022 did not identify any wetlands or streams on the subject property and surrounding 300 feet. There was no evidence of wetland hydrology like surface ponding and there are no available historical satellite photos that show

any flooded areas or stream channels. Additionally, the plant community onsite is not dominated by hydrophytic vegetation and none of the soil analysis pits showed indicators of hydric soils.

Biologist Qualifications

Tom Peterman is a Biologist with training in wetland science and ecological restoration. Tom has years of professional experience in wetland delineation and wetland rating, wetland and stream restoration, mitigation planning and monitoring, and fish and wildlife assessments. Tom has earned a graduate degree and a certificate in wetland science and management from the University of Washington. Tom is certified as an active wetland professional with the Society of Wetland Scientists. If you have any questions regarding this technical memorandum, please contact me at (206) 666-8736, or by email at tom@petermanconsultingllc.com.

Regards,

Tom Peterman MEH, WPIT
Biologist

References

Environmental Laboratory (Corps). 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.

City of Mercer Island GIS Portal (GIS). 2022. https://icgeomap.islandcountywa.gov/Html5Viewer/Index.html?viewer=ICGeoMap#

Natural Resource Conservation Service (NRCS). 2022a. United States Department of Agriculture. Web Soil Survey [map online]. Queried December 8th, 2022. URL: http://websoilsurvey.nrcs.usda.gov/

U.S. Army Corps of Engineers (Corps). 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar

U.S. Fish and Wildlife Service (USFWS). 2022. Wetland Mapper [map online]. National Wetlands Inventory Queried December 8th 2022. URL: http://www.fws.gov/wetlands/Wetlands-Mapper.html Interactive Layer = "Wetlands".

Washington Department of Fish and Wildlife (WDFW). 2022a. PHS on the Web [map online]. Priority Habitats and Species Queried December 8th, 2022. URL: http://wdfw.wa.gov/mapping/phs/.

Washington Department of Natural Resources (WDNR). 2022. Forest Practices Application Mapping Tool [map online]. Streams and Water Type Breaks. Queried December 8th, 2022. URL: https://fortress.wa.gov/dnr/protectiongis/fpamt/index.html