



Project Narrative

Pump Station 20 Replacement Project Project No. 25-08

Prepared by: Christopher Marks, P.E.

Date: July 22, 2025



signed:
07/22/2025

BACKGROUND

Sewer Pump Station 20 (PS 20) is located near the southern tip of the island at 8790 85th Ave SE. The station, first constructed in 1966, is now almost 60 years old, and has reached the end of its useful design life. The existing wet well abuts Lake Washington, has corroded noticeably, and has exposed rebar in several places. In addition, the pumps and valves are in poor condition and the motor control panels are old with obsolete parts. Of the seventeen sewer pump stations on the Island, a 2024 assessment identified PS 20 as the most in need of replacement.

PROJECT INFORMATION

The City of Mercer Island, Washington intends to advertise for bid the Pump Station 20 Replacement project. The primary scope of work includes reconstruction and replacement of the existing sewer pump station, including but not limited to, removal and replacement of all pumps, piping, mechanical, and associated electrical and control equipment, and modernization to a submersible station. Work also includes installation of access stairs, asphalt pavement, storm drainage, pervious pavers, landscaping, and park amenities in an approximate 1250 sf area of the existing street end park. Installation of temporary sewer bypass will be required to divert sewer flows around the station during reconstruction.

SHORELINE MASTER PROGRAM

MICC 19.13

B. Applicability. The requirements of this chapter apply to all uses, activities and development within the shorelands, unless specifically exempted...

The existing station abuts Lake Washington shoreline. This proposal will impact from 1' to 50' landward of the Ordinary High Water Mark (OHWM) so it falls under shoreline jurisdiction.

CRITICAL AREA REVIEWS

MICC 19.07.020

A. Except as specifically exempted by section 19.07.120, exemptions, these regulations apply to land uses, development activity, and all structures and facilities within the city of Mercer Island that contain any of the following critical areas and/or their buffers:

Geologic hazard areas, watercourses, wetlands and wildlife habitat conservation areas.

The project site is located within a moderate wetland probability zone, a seismic area, a steep slope, a landslide hazard area, and a groundwater zone where depths are expected to be less than 10 feet, according to the City's GIS data. Additionally, the site is 552.5 feet southeast of the nearest known eagle nest, placing it within a secondary buffer zone. According to WDFW maps, a total of six candidate

species could be located within the project area; however, no species or habitats have been observed at the site. A check of the WDFW Priority Species and Habitat (PHS) dataset on 1/28/2025 reflects this. The project is subject to a critical area review unless exempt.

SHORELINE ENVIRONMENTAL DESIGNATION

The site is designated as urban park environment.

MICC 19.13.030

A. This environment consists of shoreland areas designated for public access and active and passive public recreation. The areas include, but are not limited to, parks, street ends, public utilities and other publicly owned rights-of-way. The uses located in this environment should be water-dependent and designed with no net loss to the ecological functions of the shorelands. Restoration of ecological functions is planned for these areas and is strongly encouraged. The preferred and priority use in the urban park environment is public access to, and enjoyment of, Lake Washington.

General regulations defines the no net loss standard as the following:

MICC 19.13.020

C. No net loss standard and mitigation sequencing. No development shall be approved unless the applicant demonstrates to the code official's satisfaction that the shoreline development will not create a net loss of ecological function in the shorelands

It is anticipated that implementation of mitigation sequencing in itself will satisfy the requirement for no net loss of ecological function as further described below.

CRITICAL AREA EXEMPTIONS

MICC 19.07.120

*D. The following activities are exempt from review and compliance with this chapter, provided all activities shall use reasonable methods to avoid and, if avoidance is not possible, **minimize impacts** to critical areas and buffers to the greatest extent feasible **consistent with section 19.07.100, mitigation sequencing**:*

- 1. **Minor expansion of existing right-of-way improvements**, including public streets, bike lanes, shoulders, trails, sidewalks, and open space, following consultation with the code official;*
- 2. **Minor expansion of public utility structures and conveyance systems and their associated facilities including service lines, pipes, mains, poles, equipment and appurtenances, both above and below ground**, following consultation with the code official;*

E. The following activities are exempt from city review and approval but must comply with the standards of this chapter:

- 1. **Repair and maintenance of existing right-of-way improvements**. Repair, maintenance, reconstruction and replacement of existing right-of-way improvements, including **public streets, bike lanes, shoulders, trails, sidewalks, and open space**.*
- 2. **Repair and maintenance of existing utility facilities**. Repair, maintenance, reconstruction and replacement of public utility structures and conveyance systems and their associated facilities, including but not limited to **service lines, pipes, mains, poles, equipment and appurtenances, both above and below ground**.*

3. Noxious weed removal. *Removal of noxious weeds, provided:*

a. All disturbed soils are stabilized and revegetated with appropriate native vegetation; and

b. The area from which noxious weeds are removed is limited to 1,000 square feet.

4. Maintenance of existing landscaping. *Landscape maintenance of legally established lawns and gardens including mowing, pruning, weeding, and planting; provided, that such activities are consistent with the following provisions:*

This proposal qualifies for exemption from critical area review as it constitutes both repair and maintenance of existing right of way improvements and utility facilities AND a minor expansion of existing right-of-way improvements and public utility structures.

The current sewer pump station has reached the end of its service life and will be replaced with an industry-standard equivalent that complies with current regulations. The station's existing footprint will be maintained, with only a portion of the reconstructed facility extending landward. The proposed improvements will not encroach toward the OHWL, nor will the exterior of the existing station adjacent to the water be reconstructed. The proposed vault structure will slightly increase wastewater storage capacity, but the station's service level, sewage pumping capacity, pipe and pump sizes, and the number of households served will remain unchanged.

The project also includes noxious weed removal within a 250 sf area and revegetation of the disturbed area with regional native plants.

An exemption from review and compliance with this chapter is requested. Impacts will be minimized to the greatest extent feasible consistent with section 19.07.100, mitigation sequencing:

MITIGATION SEQUENCING

MICC 19.07.100

Except as otherwise provided in this chapter, an applicant for a development proposal or activity shall implement the following sequential measures, listed below in order of preference, to avoid, minimize, and mitigate impacts to environmentally critical areas and associated buffers. Applicants shall document how each measure has been addressed before considering and incorporating the next measure in the sequence:

A. Avoiding the impact altogether by not taking a certain action or parts of an action. *The applicant shall consider reasonable, affirmative steps and make best efforts to avoid critical area impacts. However, avoidance shall not be construed to mean mandatory withdrawal or denial of the development proposal or activity if the proposal or activity is an allowed, permitted, or conditional use in this title. In determining the extent to which the proposal should be redesigned to avoid the impact, the code official may consider the purpose, effectiveness, engineering feasibility, commercial availability of technology, best management practices, safety and cost of the proposal and identified changes to the proposal. Development proposals should seek to avoid, minimize and mitigate overall impacts based on the functions and values of all of the relevant critical areas and based on the recommendations of a critical area study. If impacts cannot be avoided through redesign, use of a setback deviation pursuant to section 19.06.110(C), or because of site conditions or project requirements, the applicant shall then proceed with the sequence of steps in subsections B through E of this section;*

A. The existing sewer pump station, originally constructed in the 1960s, has reached the end of its

useful life. Avoiding redevelopment of the site is neither feasible nor advisable, as action is required to ensure continued wastewater collection and pumping capacity, and to prevent the risk of sanitary sewer overflows (SSOs). An alternatives analysis technical memorandum, prepared by RH2 Engineering and dated January 31, 2025, evaluated options for rehabilitating versus replacing specific components of the station. Based on that analysis, this proposal incorporates a combination of targeted rehabilitation and replacement efforts, as summarized below:

a. Existing wet well

- i. The existing wet well is separated from Lake Washington waters by a 12-inch-thick reinforced concrete wall. Inspections have determined that this wall has corroded noticeably with exposed rebar in several places. Continued use of the structure as a wet well is not feasible; therefore, a new wet well structure will be constructed landward of the existing dry well. Once the new structure is in place, the existing wet well structure will be rehabilitated to prevent future degradation.
- ii. Constructing a new wet well shortens the duration of the full sewer bypass required for the project, significantly reducing construction costs and minimizing the risk of potential SSOs during bypass operations.

b. Existing dry well

- i. Existing pumps and valves are old, have excessive vibration, and have parts that are obsolete. Rehabilitation is not feasible. New pumps with variable frequency drives to better control flow rates will be installed along with new valves and piping.
- ii. The existing below-grade electrical and control panels require confined space entry for operation and maintenance, presenting safety and accessibility challenges. Maintaining control panels in below-grade vaults should be avoided unless absolutely necessary due to site constraints. As part of this project, the panels will be relocated above grade in outdoor-rated enclosures to comply with current NEC requirements and enhance operator safety and system accessibility.

B. Minimizing impacts by limiting the degree or magnitude of the action and its implementation, using a setback deviation pursuant to section 19.06.110(C), using appropriate technology, or by taking affirmative steps to avoid or reduce impacts;

- B.** The project involves a minor expansion and replacement of existing utility infrastructure. Pumps, piping, and associated equipment will be replaced using industry-standard methods. Construction best management practices (BMPs) will be implemented to ensure all disturbance remains contained within the site, avoiding impacts to the shoreline and surrounding areas. Although the existing structure does not conform to current setback requirements, the proposed improvements will not expand or intensify this non-conformity.

C. Rectifying the impact by repairing, rehabilitating, or restoring the affected environment;

- C.** The proposed project is located entirely within City right-of-way and is designated as an urban park in the 2022 Parks, Recreation, and Open Space (PROS) Plan. As outlined in the plan, the project will include the installation of a park bench, access stairs to the underground vault, native vegetation, and a park sign.

Additionally, invasive Himalayan blackberry along the southwest edge of the site, adjacent to Lake Washington, will be removed. In its place, the site will be replanted with native trees, shrubs, and appropriate groundcover, including wood chip mulch, sword ferns, mahonia, cranesbill geraniums, huckleberry, and vine maple—similar to the plantings used at Pump Stations 11 and 14, which are also located at street-end parks.

In lieu of standard asphalt restoration, approximately 690 square feet of existing pavement will be replaced with pervious pavers to support stormwater infiltration and enhance the park-like character of the site.

D. Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action;

- D. The project includes construction of a new stairwell and access path to the lower-level vault, providing safe and sustainable access for both the public and operations and maintenance staff. This access path will stabilize the hillside and prevent the ongoing erosion currently impacting the landscape. The planting of native trees, shrubs, and groundcover will enhance the visual appeal of the street-end park while contributing to long-term ecological resilience. A new irrigation system with an automatic controller will support the health of these plantings over time.

Replacing the existing station with a new submersible pump station will significantly reduce the risk of sanitary sewer overflows (SSOs), which is currently elevated. In addition, the upgrade will reduce the frequency of maintenance visits, lower energy consumption, and eliminate persistent site odors associated with the existing wet well configuration.

E. Compensating for the impact by replacing, enhancing, or providing substitute resources or environments; and/or

- E. As described in (C.) and (D.) above, the project will enhance the existing street end park, while have no impact to the shoreline environment.

F. Monitoring the impact and taking appropriate corrective measures to maintain the integrity of compensating measures.

- F. Monitoring the impact is not necessary.

DEVELOPMENT APPLICATION SHEET

Provided

TITLE REPORT

Request waiver for Title Report. The entirety of work activities will be performed within the City of Mercer Island right of way. A copy of the existing encroachment permit between the City and

DEVELOPMENT PLAN SET

The 60% plan set is provided with this submittal. At this stage, no further changes to the site plan or to the improvements described in this proposal are anticipated. Remaining work will focus primarily on the continued development of the mechanical and electrical drawings. It is understood that any increase in the project footprint or the addition of new elements that alter the approved scope will require a resubmittal for review and approval.

ARBORIST REPORT

Provided

TREE INVENTORY & REPLACEMENT WORKSHEET

Provided

SEPA CHECKLIST

A SEPA checklist is provided for the pre-planning meeting. Note that a SEPA exemption is requested by project definition.

This project is categorically exempt from SEPA under WAC 197-11-800(2)(d)(ix)

- (2) *Other minor new construction.*
 - (d) *The construction or installation of minor road and street improvements by any agency or private party that include the following:*
 - (ix) *Addition of bicycle lanes, paths and facilities, and pedestrian walks and paths including sidewalk extensions, but not including additional automobile lanes.*

and WAC 197-11-800(23)(b)(c) and (e)

- (23) *Utilities. The utility-related actions listed below shall be exempt, except for installation, construction, or alteration on lands covered by water. The exemption includes installation and construction, relocation when required by other governmental bodies, repair, replacement, maintenance, operation or alteration that does not change the action from an exempt class.*
 - (b) *All stormwater, water and sewer facilities, lines, equipment, hookups or appurtenances including, utilizing or related to lines 12 inches or less in diameter.*
 - (c) *All electric facilities, lines, equipment or appurtenances, not including substations, with an associated voltage of 55,000 volts or less; the overbuilding of existing distribution lines (55,000 volts or less) with transmission lines (up to and including 115,000 volts); within existing rights of way or developed utility corridors, all electric facilities, lines, equipment or appurtenances, not including substations, with an associated voltage of 115,000 volts or less; and the undergrounding of all electric facilities, lines, equipment or appurtenances.*
 - (e) *All developments within the confines of any existing electric substation, reservoir, pump station vault, pipe, or well: Additional appropriations of water are not exempted by this subsection.*

The project elements are limited to public right of way, involve minor road (street end) and pedestrian

walks, and involve utility related storm and sewer developments within the confines of an existing sewer pump station vault, pipe, or well.

PREPARER QUALIFICATIONS

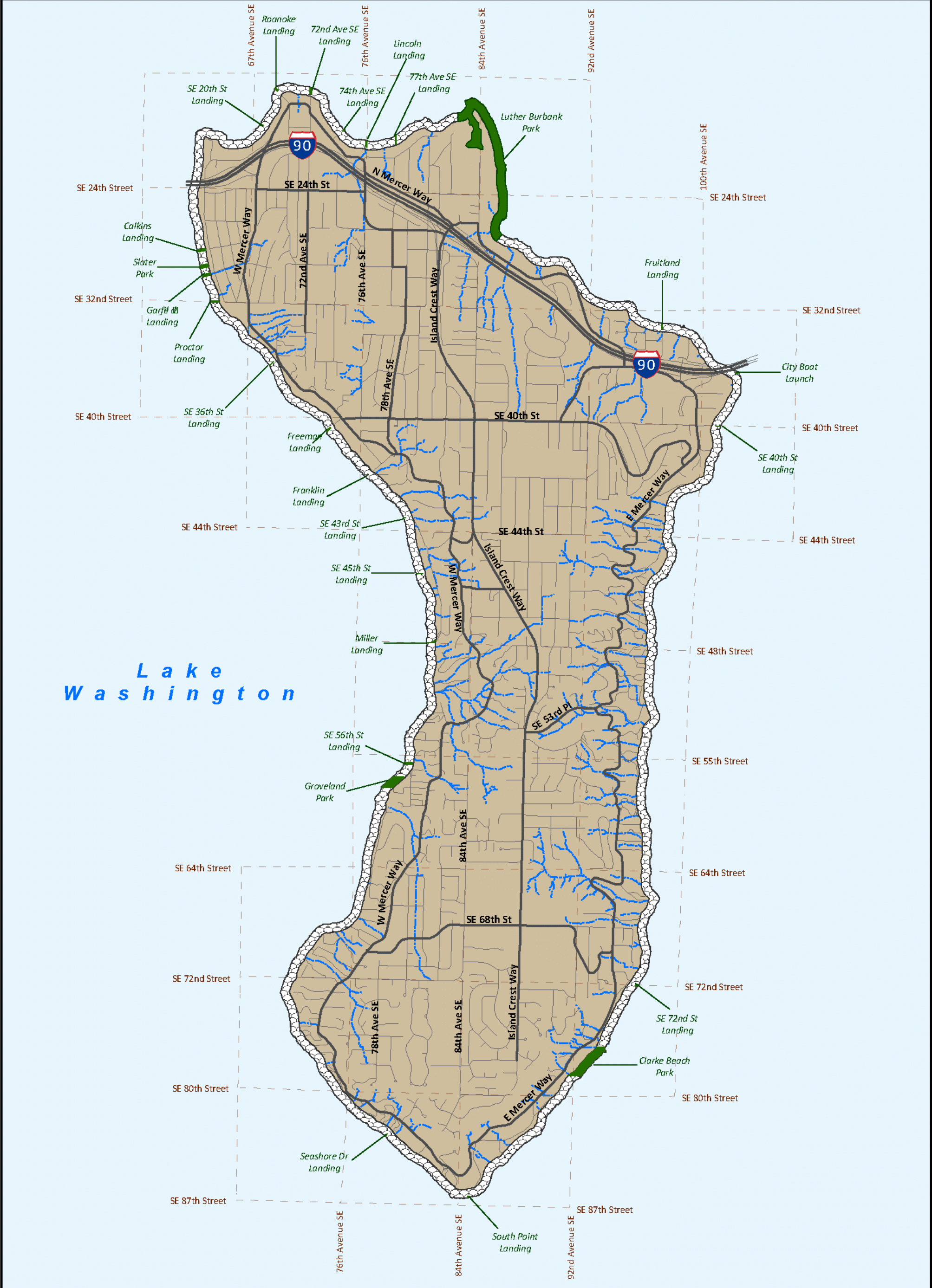
Christopher Marks, P.E.
Utilities Engineer, City of Mercer Island
Professional Engineer – Civil (License No. 23027443)

Christopher Marks is a Utilities Engineer for the City of Mercer Island, with 2 years of experience in his current role and 5 years of total professional experience in civil and environmental planning. In this role, he has collaborated extensively with arborists, geotechnical engineers, biologists, ecologists, and other environmental consultants to navigate complex land use planning and permitting requirements for multiple public works infrastructure projects. He has coordinated directly with a range of regulatory agencies, including the Puget Sound Clean Air Agency, Washington State Department of Ecology, U.S. Fish and Wildlife Service, Washington State Department of Health, Department of Natural Resources, and the U.S. Army Corps of Engineers.

From 2020 to 2023, Mr. Marks conducted environmental reviews under the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) for over a dozen public and private projects throughout California. His experience includes preparing Stormwater Pollution Prevention Plans (SWPPPs), Dust Control Plans, Caltrans Preliminary Environmental Studies (PES), and Environmental Assessments (EAs) to meet U.S. Department of Housing and Urban Development (HUD) requirements. He also has experience performing emissions calculations using the California Emissions Estimator Model (CalEEMod) to ensure compliance with regional air quality regulations.

Relevant Training:

- *Preliminary Environmental Study (PES) Form for Local Agency Projects, Caltrans District 6 – February 28, 2019*






Lake Washington



Appendix F - Proposed Shoreline Environment Designations^{1,2,3}

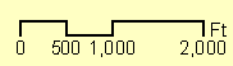
Shoreline Master Program - City of Mercer Island



-  Urban Park Environment
-  Urban Residential Environment

 Watercourse

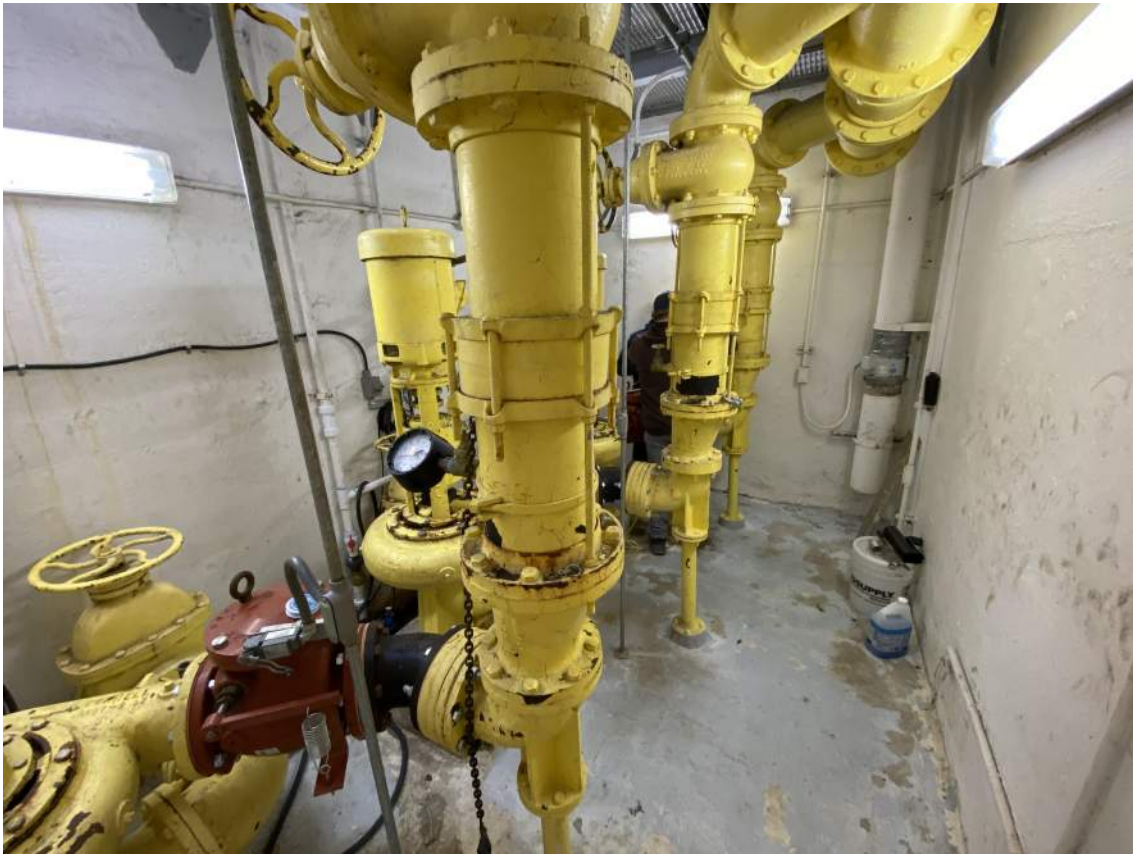
-  Major Roads
-  Minor Roads



¹ Waterward extent of City jurisdiction is measured to the middle of Lake Washington, pursuant to RCW 3521.160.
² Waterward extent of Shoreline Management Area is measured from the Ordinary High Watermark to the middle of Lake Washington.
³ Landward extent of Shoreline Management Area is measured 200 ft landward of the Ordinary High Water Mark.









Legend

- Wetland
- Wetland Studies
- Wetland Probability**
- Low
- Low-Moderate
- Moderate
- Moderate-High
- High
- Address**
- Parcels
- Buildings
- Docks
- Shoreline
- Major Roads
- Street Centerline
- Paved Road
- Paved Driveway
- Paved Parking Area
- March 2020**
- Red: Band_1
- Green: Band_2
- Blue: Band_3

1: 500

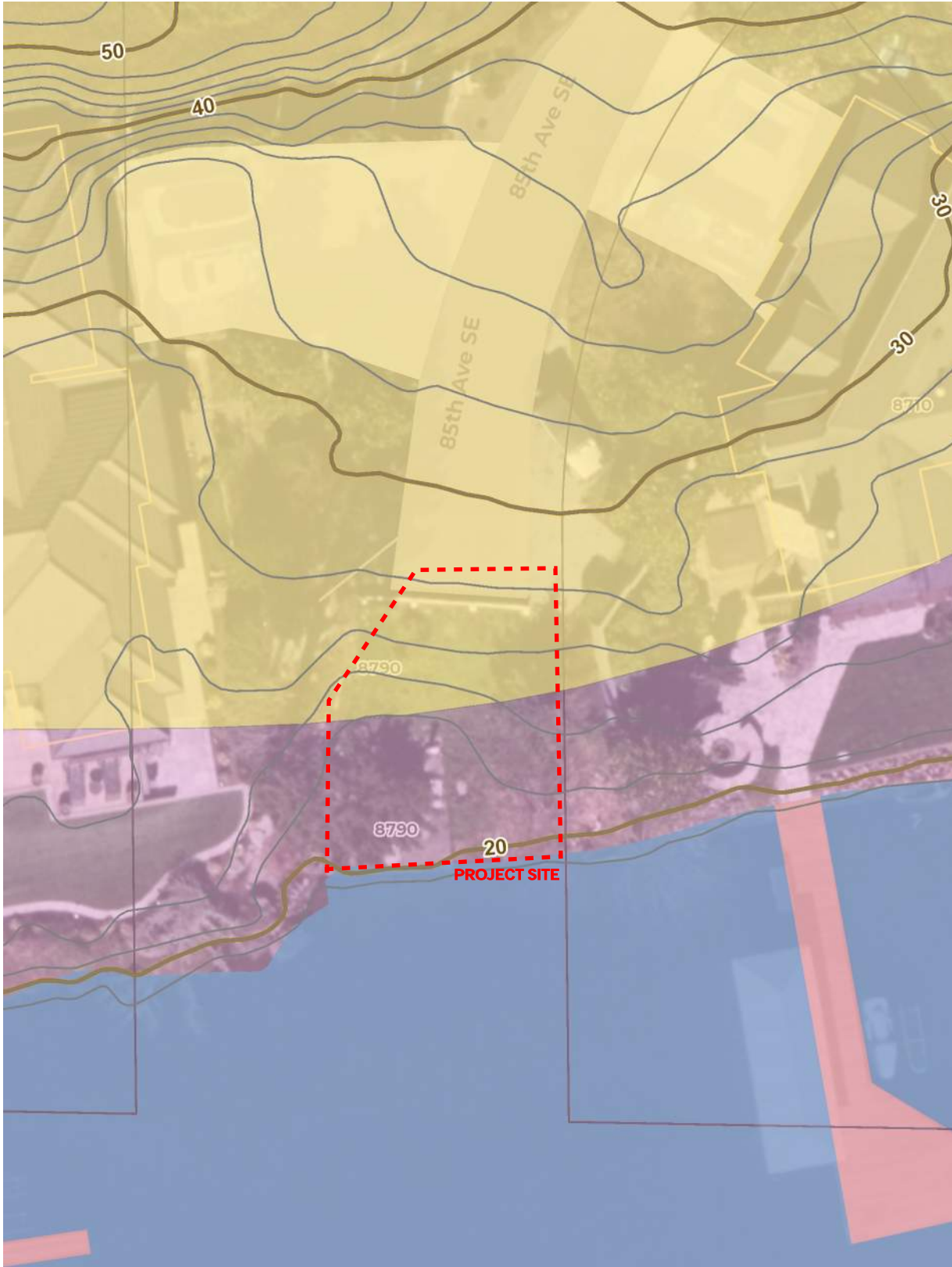


63.7 0 31.87 63.7 Feet



Disclaimer: These maps were developed by the City of Mercer Island and are intended to be a general purpose digital reference tool. These maps are not an accepted legal instrument for describing, establishing, recording or maintaining descriptions for property concerns or boundaries. The City makes no representation or warranty with respect to the accuracy or currency of these data sets, especially in regard to labeling of surveyed dimensions, or agreement with official sources such as records of survey, or mapped locations of features.

Notes



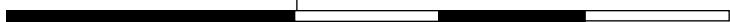
Legend

- 2ft Lidar Contours (20)
- 10ft Lidar Contours (2)
- Steep Slope
- Erosion
- Seismic
- Address
- Parcels
- Buildings
- Docks
- Shoreline
- Major Roads
- Street Centerline
- Paved Road
- Paved Driveway
- Paved Parking Area
- March 2020
- Red: Band_1
- Green: Band_2
- Blue: Band_3

1: 250

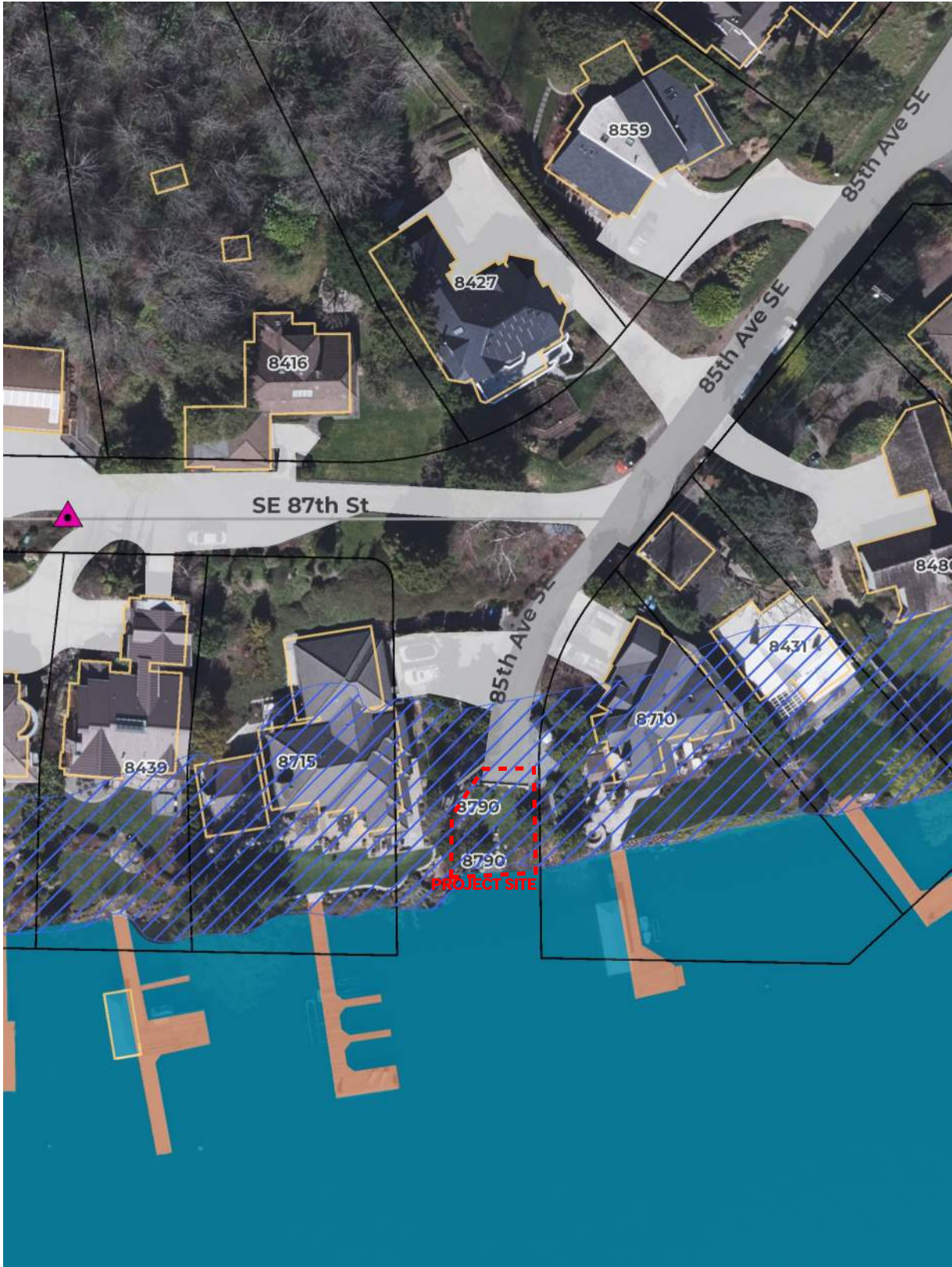


31.9 0 15.94 31.9 Feet



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Notes



Legend

- Identified Landslide L
 - ▲ Documented
 - ▲ No Documentation
 - ▲ Ancient Slide (Test Pit)
- + Scarp
- Geologic Contacts
- Spring Locations
- Springs Mapped
- ☐ Water < 10 ft below g
- Address
- Parcels
- ▭ Buildings
- ▭ Docks
- ▭ Shoreline
- ▭ Major Roads
- ▭ Street Centerline
- ▭ Paved Road
- ▭ Paved Driveway
- ▭ Paved Parking Area
- March 2020
- Red: Band_1
- Green: Band_2
- Blue: Band_3

1: 750



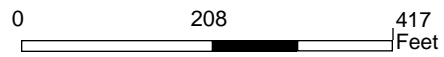
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Notes



Legend

- Eagle Nest
- Eagle Nest Buffers
 - 330 Ft
 - 660 Ft
- ☒ Wetland
- Address
- Parcels
- Buildings
- Docks
- Shoreline
- Major Roads
- Street Centerline
- Paved Road
- Paved Driveway
- Paved Parking Area
- Parks

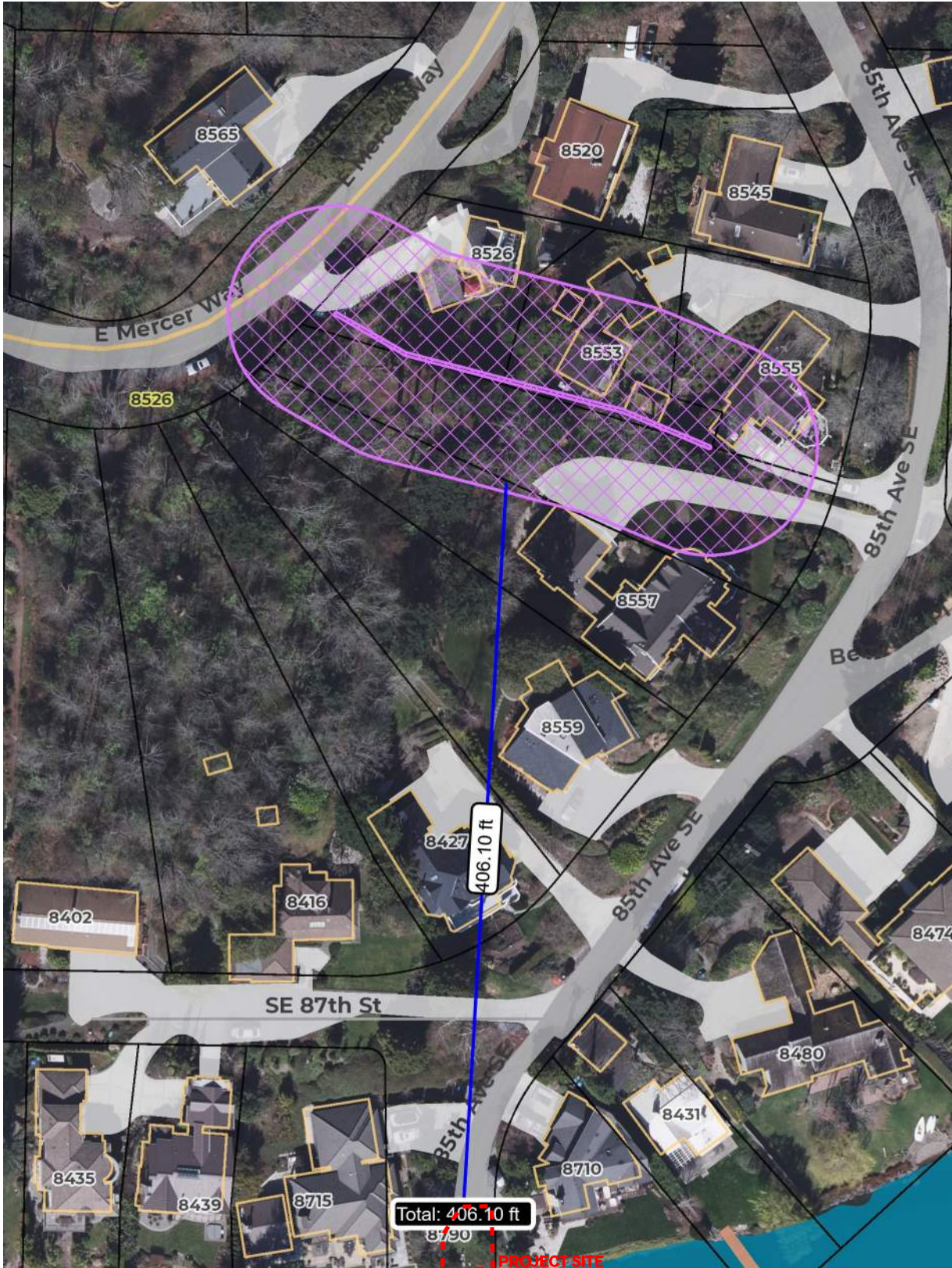


1 inch =
416.666666666667
feet



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Notes



Legend

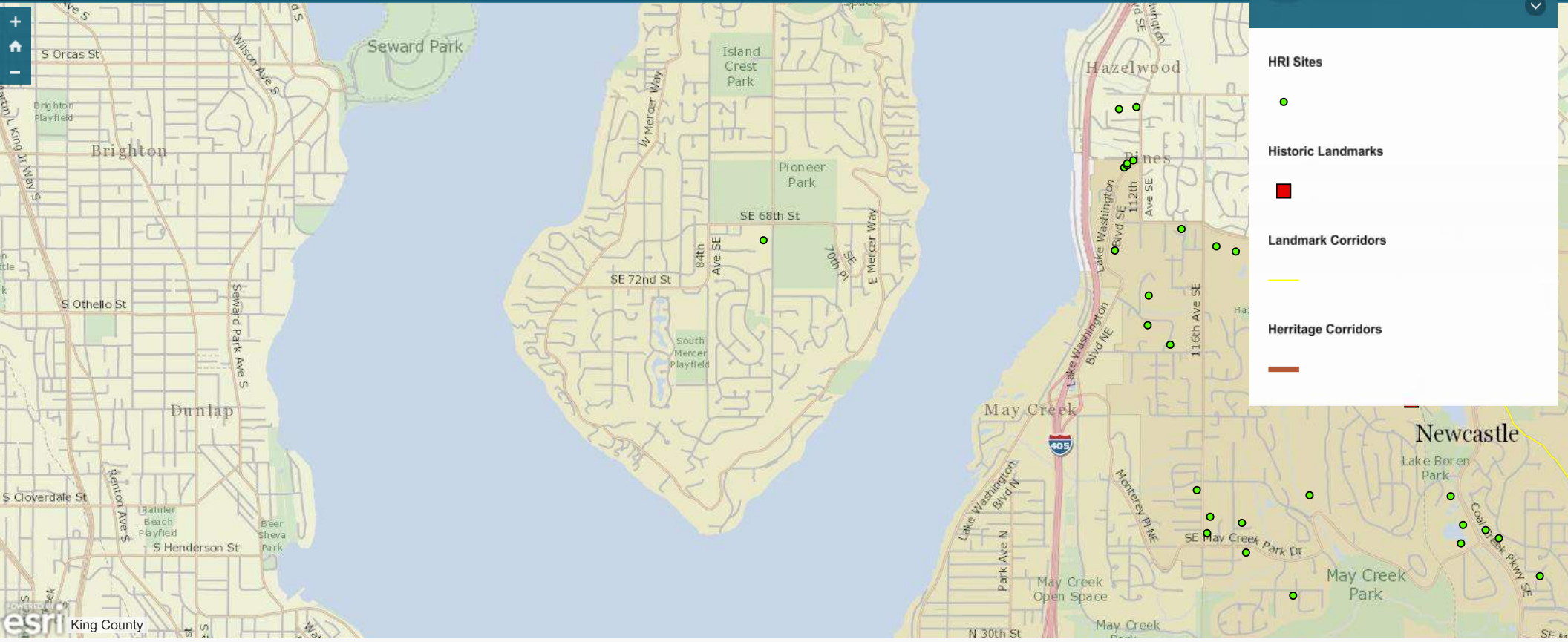
- Unpiped Watercourse**
 - Type "F" = Fish
 - Type "Np" = Non-Fish
 - Type "Ns" = Non-Fish
 - Type "Np" (Unverified)
 - Type "Ns" (Unverified)
- Piped Watercourse**
- Watercourse Buffer/S**
 - Type "F" = 120-Ft Buff
 - Type "Np" = 60-Ft Buff
 - Type "Ns" = 60-Ft Buff
 - Type "Np" Unverified =
 - Type "Ns" Unverified =
 - Reduced buffer per CA
 - Piped Type F/Np/Ns =
- Watercourse Studies**
- Address**
 - Parcels
 - Buildings
 - Docks
 - Shoreline
 - Major Roads
 - Street Centerline
 - Paved Road
 - Paved Driveway
 - Paved Parking Area
- March 2020**
 - Red: Band_1
 - Green: Band_2
 - Blue: Band_3

1: 1,000



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Notes



Legend

- HRI Sites**
●
- Historic Landmarks**
■
- Landmark Corridors**
—
- Heritage Corridors**
—

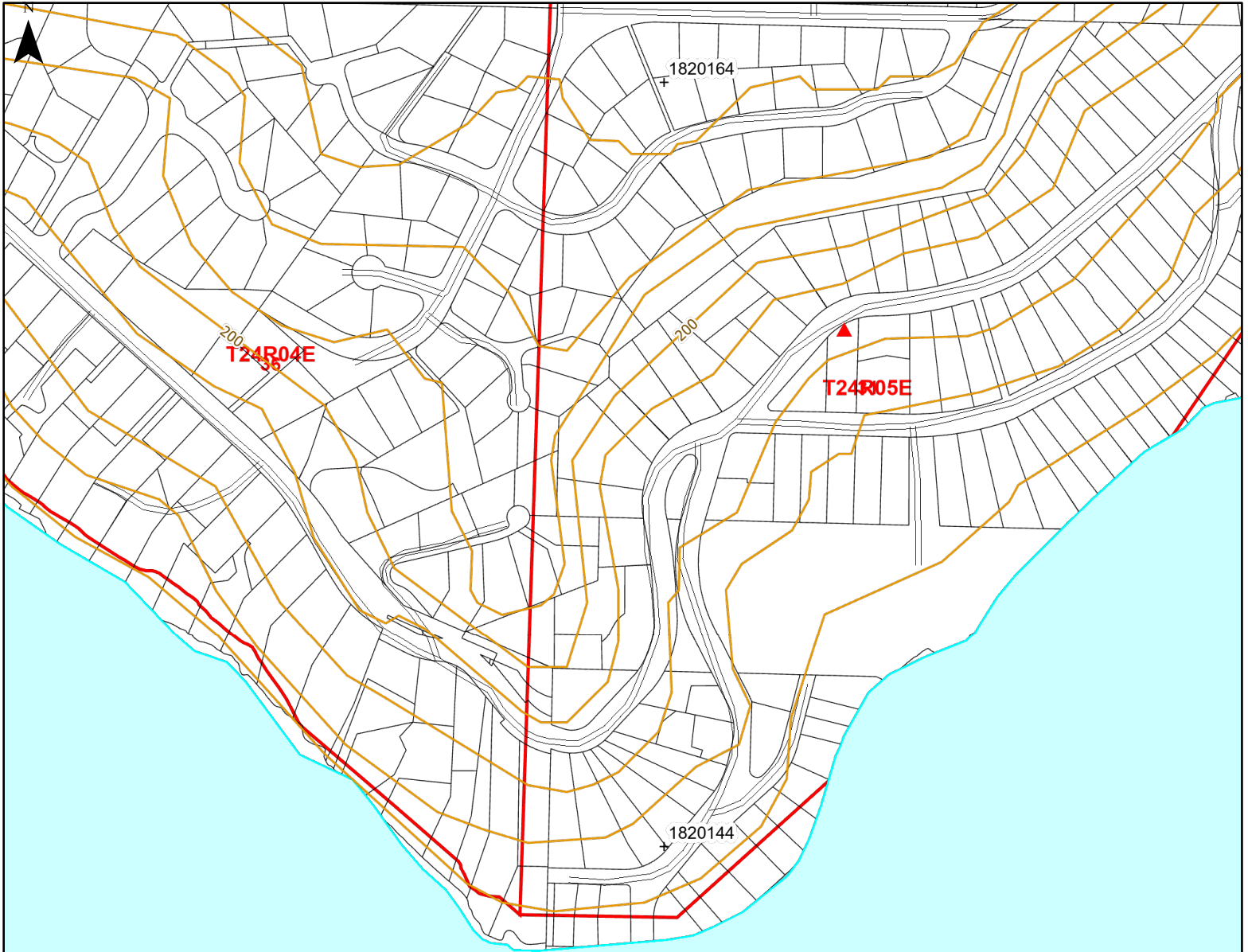


Report Date: 01/28/2025

The Priority Habitats and Species (PHS) datasets do not contain information for your project area. This does not mean that species and habitats do not occur in your project area. PHS data, points, lines and polygons are mapped only when occurrences of these species or habitats have been observed in the field. Unfortunately, we have not been able to comprehensively survey all sections in the state and therefore, it is important to note that priority species and habitats may occur in areas not currently known to the Department.


DISCLAIMER. This report includes information that the Washington Department of Fish and Wildlife (WDFW) maintains in a central computer database. It is not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife. This information only documents the location of fish and wildlife resources to the best of our knowledge. It is not a complete inventory and it is important to note that fish and wildlife resources may occur in areas not currently known to WDFW biologists, or in areas for which comprehensive surveys have not been conducted. Site specific surveys are frequently necessary to rule out the presence of priority resources. Locations of fish and wildlife resources are subject to variation caused by disturbance, changes in season and weather, and other factors. WDFW does not recommend using reports more than six months old.

Forest Practices Activity Map - Application # _____

















































S Lake Washington

Restoration Division of the DFW Habitat Program, Office of the Chief Information Officer (OCIO), Department of Natural Resources (DNR), Forest Practices Division, WDFW Habitat Program, Restoration Division, FFFPP, WADNR, Department of Natural Resources (DNR), Engineering Division

Map Symbols	Additional Information	Legal Description
<ul style="list-style-type: none"> ~ ~ ~ Harvest Boundary - - - Road Construction ~ Stream RMZ / WMZ Buffers Rock Pit ☉ Landing ▽ Waste Area 🌲 Clumped WRTS/GRTS 🏠 Existing Structure 		<p>S36 T24.0N R04.0E, S31 T24.0N R05.0E</p>
 <p>WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES</p>	<p>Extreme care was used during the compilation of this map to ensure its accuracy. However, due to changes in data and the need to rely on outside information, the Department of Natural Resources cannot accept responsibility for errors or omissions, and therefore, there are no warranties that accompany this material.</p>	<p>Approximate Scale : 1:4,800</p> <p>0 200 400 800 Feet</p> <p>Date: 7/22/2025 Time: 7:54 AM</p>

Legend

- | | | | | | |
|---|--------------------------------------|---|--|---|-----------------------------------|
|  | Unknown |  | Fish Barrier RMAP Obligation |  | Orphaned |
|  | On a Non-Fish Bearing Stream |  | Fish Barrier Deferred or Not RMAP Obligation |  | Paved Road |
|  | Natural Barrier - Not Field Verified |  | No Fish |  | Unpaved Road/Surface Unknown |
|  | Natural Barrier - Verified |  | Modeled |  | Other Impoundments |
|  | Diversion |  | WTMF |  | Open Freshwater |
|  | Barrier, Unknown Percent Passable |  | Map Registration Tics |  | Subject to Inundation |
|  | Total Fish Passage Blockage |  | Trail |  | Glacier / Snowfield |
|  | Partial Fish Passage Blockage |  | Railroad |  | Wet Area |
|  | Not a barrier |  | Railroad Grade |  | Open Saltwater |
|  | |  | 40 ft. Contours |  | Artificial Feature |
|  | |  | Type S |  | County Tax Parcels |
|  | Fish Passable |  | Type F |  | County Boundaries |
|  | Fish Barrier |  | Type N, Np, Ns |  | Tribal Cultural Resource Contacts |
|  | No Fish |  | U, unknown |  | Public Land Survey Sections |
|  | Fish Passable |  | X, non-typed per WAC 222-16 |  | Public Land Survey Townships |
| | |  | Abandoned | | |



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Washington Fish And Wildlife Office
510 Desmond Drive Se, Suite 102
Lacey, WA 98503-1263
Phone: (360) 753-9440 Fax: (360) 753-9405

In Reply Refer To:

07/22/2025 15:06:35 UTC

Project Code: 2025-0124905

Project Name: Sewer Pump Station 20 Replacement Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Washington Fish And Wildlife Office

510 Desmond Drive Se, Suite 102

Lacey, WA 98503-1263

(360) 753-9440

PROJECT SUMMARY

Project Code: 2025-0124905

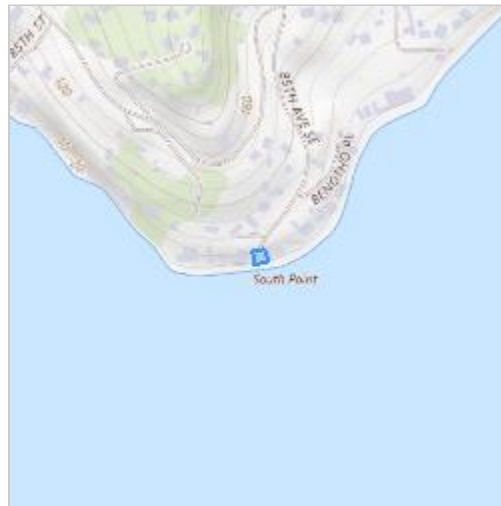
Project Name: Sewer Pump Station 20 Replacement Project

Project Type: Wastewater Facility - Maintenance / Modification

Project Description: reconstruction and replacement of the existing sewer pump station, including but not limited to, removal and replacement of all pumps, piping, mechanical, and associated electrical and control equipment, and modernization to a submersible station. Work also includes installation of access stairs, asphalt pavement, storm drainage, pervious pavers, landscaping, and park amenities in an approximate 1250 sf area of the existing street end park. Installation of temporary sewer bypass will be required to divert sewer flows around the station during reconstruction.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@47.52466165,-122.22607690348033,14z>



Counties: King County, Washington

ENDANGERED SPECIES ACT SPECIES

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

BIRDS

NAME	STATUS
Marbled Murrelet <i>Brachyramphus marmoratus</i> Population: U.S.A. (CA, OR, WA) There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4467	Threatened
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

REPTILES

NAME	STATUS
Northwestern Pond Turtle <i>Actinemys marmorata</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1111	Proposed Threatened

FISHES

NAME	STATUS
Bull Trout <i>Salvelinus confluentus</i> Population: U.S.A., coterminous, lower 48 states There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8212	Threatened

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened
Suckley's Cuckoo Bumble Bee <i>Bombus suckleyi</i> Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10885	Proposed Endangered

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

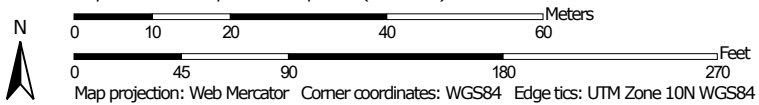
Agency: Mercer Island city
Name: Christopher Marks
Address: 9611 SE 36th St
City: Mercer Island
State: WA
Zip: 98040
Email: cmarks.outside@gmail.com
Phone: 2066771027

Soil Map—King County Area, Washington




Soil Map may not be valid at this scale.

Map Scale: 1:967 if printed on A portrait (8.5" x 11") sheet.





MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: King County Area, Washington

Survey Area Data: Version 20, Aug 27, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 31, 2022—Aug 8, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KpB	Kitsap silt loam, 2 to 8 percent slopes	2.9	83.1%
KpD	Kitsap silt loam, 15 to 30 percent slopes	0.6	16.9%
Totals for Area of Interest		3.5	100.0%