# Critical Areas Report (Existing Conditions)

Trailhead Apartments
1550 Newport Way Northwest,
Issaquah, Washington
24 October 2024



wet.land

Wet.land, LLC 206-309-8100 Wet.land

PREPARED FOR:

**King County Housing** 





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**EBI** Consulting

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#### **DISCLAIMER**

This report has been prepared by Wet.land, LLC based on our best professional judgment, and is intended for the use outlined in Section 1.3 below. Use of this report or its appendices outside of its intended purpose is a breach of the contract under which this document was prepared.

Any delineations, wetland ratings, stream typings, or general characterizations were completed in accordance with the applicable regulations at the time field work was completed. Where information was provided by Others and not collected directly by Wet.land, LLC, such is stated within the report.

Conclusions presented within this report are based on the information available at the time of report preparation, and are accurate and true to the best of our knowledge. The opinions and conclusions contained within this report are a reflection of our interpretation of applicable regulations and are not final until concurrence is provided by the appropriate agencies.



# 1. Report Purpose

## 1.1 Project Name and Purpose

The Trailhead Apartments Project proposes to redevelop a four (4)-acre property originally built in 1981 as a light industrial/commercial building. This report describes the existing conditions of the property but does not discuss the proposed project in relation to critical areas impacts.

## 1.2 Applicant

The Applicant for the Trailhead Apartments is the King County Housing Authority, represented by Nathan Kraus:

King County Housing Authority, 600 Andover Park West, Tukwila, WA 98188

Email: NathanK@kcha.org

## 1.3 Report Purpose

This report has been prepared in accordance with the requirements of the Issaquah Municipal Code (IMC) Chapter 18.802 *Critical Areas Regulations*. This report has also been prepared in light of applicable State and Federal regulations.

## 1.4 Preparer Qualifications

Field investigations and reporting were completed by Jennifer Marriott, PWS and Kristen Numata, PWS (**Appendix A**).

Jennifer Marriott has a Bachelor's Degree and a Master's Degree in Biology from University of Central Florida, and a second Master's Degree in Soil and Environmental Science from the University of Florida. She has over 20 years of experience in wetland delineations and environmental permitting.

Kristen Numata has two Bachelor's Degrees in Biology and Environmental Science from Santa Clara University, and she has over eight years of experience in environmental consulting.



# 2. Project Site

## 2.1 Project Location

The Project Parcel is located at 1550 Newport Way Northwest in Issaquah, Washington (**Appendix B, Figure 1**). The parcel number is 292406-9002 and the <u>latitude/longitude</u> coordinate for the center of the parcel is <u>47.5421</u>, <u>122.0604</u>. The Public Land Survey System location is the NE ¼ of Section 29, Township 24 North, Range 6 East, Willamette Meridian (W.M). The Topographic Survey for Trailhead Apartments as prepared by David Evans and Associates, Inc., dated 26 September 2024, is included as **Appendix C**.

## 2.2 Project Site Description

The Site is located within a heavily developed portion of Issaquah dominated by commercial properties. The Issaquah Transit Center is west of the Site. Other commercial properties are located to the north and east. Tibbetts Valley Park is located south across Newport Way NW from the Site that is an open space with parking and numerous ball fields. Tibbetts Creek flows through the southwest corner of the park more than 300 feet and across Newport Way NW from the Site.

The Site currently contains a large building with a stormwater detention pond in the northwest corner of the Site. The remainder of the Site is paved. The stormwater pond discharges to a linear depression that extends along the western parcel boundary that is discussed in more detail below.

The parcel is generally level with a gentle slope downhill from southeast to northwest. Elevations range from elevation 68 to 77 feet above sea level.

More detail on the existing conditions of these parcels is provided below in **Chapter 3**.



# 3. Existing Site Conditions

In-depth analysis of existing conditions within the Project Site is described below.

## 3.1 Methodology

Prior to field investigations of the Site, a thorough review of existing publicly available databases was completed to determine what has been previously mapped over the Site. These findings are outlined in Section 3.2 below. During field investigations, the routine approach described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region* (U.S. Army Corps of Engineers, 2010) was used as a baseline for evaluating the Site for the presence of wetlands. This supplement is in addition to the 1987 Corps of Engineers Wetlands Delineation Manual, which serves as the baseline on which the regional supplements build. Wetlands were rated using the Washington State Wetland Rating System for Western Washington (Hruby 2014). The presence of streams onsite was determined using the methodology described in *Determining the Ordinary High Water Mark on Streams in Washington State* (Olson and Stockdale, 2010).

## 3.2 Database Review Summary

An in-depth review of Agency database results for this Project Site follows in **Table 1**, below. Databases were reviewed for features on the site and within 300 feet of the site. Copies of database results are provided in **Appendix D**. Databases referenced include:

- Natural Resource Conservation Service (NRCS), Websoils Survey (NRCS)
- US Fish and Wildlife (USFWS), Wetlands Online Mapper (National Wetlands Inventory, NWI) (USFWS)
- Washington State Department of Ecology (ECY) Water Quality Atlas
- · Washington State Department of Fish and Wildlife (WDFW) Priority Species and Habitats
- Washington State Department of Natural Resources (WDNR) Forest Practices Application Mapping Tool (FPAMT)
- Statewide Integrated Fish Distribution (SWIFD) Web Map
- Fish Passage Culverts Map
- Google Earth
- Historic Aerials, www.historicaerials.com



**Table 1.** Agency Database Review

Database	Agency (Database Manager)	Data Checked	
Township, Range, Section Map	WSDOT	NE ¼ of Section 29, Township 24 North, Range 6 East, W.M.	
Watershed Boundaries	ArcGIS	HUC 8 (12) – 17110012(0201) WRIA 8: Cedar-Sammamish Watershed: Sammamish River Drainage Basin: Tibbetts Creek	
NRCS Websoils	NRCS	Entirety of the study area is mapped within Sammamish silt loam (Sh), which is considered hydric.	
National Wetlands Inventory	USFWS	No features mapped within the Study Area.	
Map Service Center	FEMA	FEMA 100-year floodplain mapped at the western edge of the study area.	
Washington State Water Quality Atlas	ECY	Tibbetts Creek listed on the 303(d) list within one mile of the site for dissolved oxygen (ID 15778), temperature (ID 15781) and benthic macroinvertebrates bioassessments (ID 70112).  Site located within Issaquah Creek Basin Bacteria TMDL.	
Priority Habitats and Species (PHS)	WDFW	Several species of bat are identified within the township, including: Big brown bat (Eptesicus fuscus) Little brown bat (Myotis lucifugus) Townsend's big-eared bat (Corynorhinus townsendii) Yuma myotis (Myotis yumanensis)	
Forest Practices Application Mapping Tool	WDNR	No features mapped within the Study Area.	
Statewide Integrated Fish Distribution (SWIFD) Web Map	NWIFC	No features mapped within the Study Area.	
Washington State Fish Passage	WDFW	No features mapped within the Study Area.	
King County iMap	King County	No features mapped within the Study Area.	



## 3.3 Field Investigation Results

The Site was evaluated for critical areas on 12 July and 13 August 2024. A summary of these findings is provided below. Site photographs are included in **Appendix E**.

#### 3.3.1 Weather

Precipitation data for the three months prior to field work were completed and analysed from the Seattle Tacoma airport weather station (**Table 2**). It was determined that the July site visit fell under normal conditions, and the August site visit was drier than normal conditions.

**Table 2.** WETS Data 1991 - 2023, Seattle Tacoma Airport Weather Station, WA

Manch	30% Chance Will Have		Monthly	Oandition	Wales a	TTT-1-21-4	Matal
Month	Less Than	More Than	Total Precipitation	Condition	Value	Weight	Total
April	2.06	3.75	0.89	Dry	1	1	1
May	1.09	2.29	1.54	Normal	2	2	4
June	0.97	1.78	1.19	Normal	2	3	6
July 1-12	0.23	0.63	0.00				
Sum <sup>1</sup>							11
May	1.09	2.29	1.54	Normal	2	1	2
June	0.97	1.78	1.19	Normal	2	2	4
July	0.23	0.63	0.16	Dry	1	3	3
Aug 1 - 12	0.26	1.02	0.00				
Sum							9

<sup>&</sup>lt;sup>3</sup> Dry = 6 - 9 points; Normal = 10 - 14 points; Wet = 15 - 18 points

#### 3.3.2 Wetlands

A linear feature occurs along the western edge of this parcel. Given the built-nature of this feature, a review of historical information on this Site was completed to determine the origin of this particular feature, including aerial imagery and the site plans of the current building (**Appendices F and G**). This Site was part of a larger agricultural operation and shows no stream or wetland features until 1965 where an inconclusive feature appears within this farm field. The feature does not show clear features of either a wetland or stream, but is more consistent with the start of a drainage. Given that this is located within a clearly heavily managed field makes this feature potentially ephemeral at best, and does not provide conclusive evidence. Accordingly, by 1969 the feature is no longer apparent. No other visual evidence of a stream or wetland in this area are apparent until after the 1980 site plans reflect an "existing by-pass ditch around Metro Park 'N Ride." The drainage plans for the existing facility dated from 1980 show the onsite drainage routed through the onsite detention pond and then discharging into this existing



ditch. This feature is labeled as having an outlet in the NW corner of the feature that conveys any water offsite. While this feature was man-made, it does not appear to have been constructed from another wetland or stream, suggesting this feature may not be jurisdictional. Out of an abundance of caution, this feature was delineated as a wetland since sufficient evidence was not found regarding its built nature (no site plans were found that noted this as a built feature).

Based on existing conditions, this feature meets the three (3) parameters to be a wetland. No bed and bank occurs within this feature that would be indicative of a stream. The areas that met the three (3) wetland parameters were delineated in the field and are reflected in the site survey and attached figures. Dominant vegetation within this feature include red-osier dogwood, red alder, black cottonwood, field horsetail, creeping buttercup, and pacific willow. Planted oaks line the top of bank of this feature. Datasheets are provided as **Appendix G**.

Surface hydrology was lacking, but secondary hydrologic indicators were present. Hydrology was also assumed based on the soils and vegetation present within the areas that did meet the wetland parameters, compared to where wetland indicators were lacking.

The wetland was rated as a Category IV wetland (Appendix I).

#### 3.3.3 Streams

No streams were identified on or near the Site. Tibbetts Creek is located more than 300 feet from the Site. Another open channel that appears to be part of the area stormwater system is located just north of the Tibbetts Valley Park parking lot. This feature is also more than 300 feet from the southwest corner of the Site. The feature onsite flows north and not south into the offsite open channel.

#### 3.3.4 Native Vegetation

Native vegetation onsite is limited to around the constructed detention pond and on or adjacent to the feature along the western parcel boundary. Oaks were planted at the top of bank of the linear feature. Other landscape trees were planted along Newport Way NW. The remainder of the Site is paved or contains the building.

#### 3.4 Wildlife

General observations on expected and observed wildlife usage is below.

#### 3.4.1 General Wildlife Usage

Common urban wildlife such as small to medium mammals and birds are expected to use the Site, though connectivity for land-based wildlife is poor given the area is surrounded by intense urban development. Opportunities for listed species is very limited given the dearth of available habitat on the Site. Tibbetts Creek serves as a corridor, but is located across Newport Way NW which is inherently limiting for some wildlife to cross safely.

#### 3.4.2 Federally Listed Species

No habitat occurs onsite that would support federally listed species. Salmonids are known to occur within Tibbetts Creek, which is assumed to be the ultimate discharge point for stormwater leaving this Site.



There is the low potential of Bald Eagle flyovers or perching on trees within the Site given the proximity of Lake Sammamish, but no evidence of nesting or roosting was observed, nor are any mapped on or adjacent to the Site.

#### 3.4.3 State Listed Species

State priority habitats on the Site include wetlands. No priority snags or logs or riparian habitat occurs on or adjacent to the Site. It is expected that wildlife and state listed species that typically use these habitats have the very low potential to use the Site, however, on and offsite conditions are degraded. No state listed species are known or were observed using the Site.

#### 3.4.4 Local Species

Common urban wildlife are expected to use the Site, though the City of Issaquah does not have its own list of local species of importance.



# 4. Regulatory Review

The Site falls under the jurisdiction of the City of Issaquah, State of Washington, and the US Army Corps of Engineers. A summary of the relevant regulations follows.

## 4.1 Federal Regulations

Waters of the US, including wetlands and streams, occur on or adjacent to the Site and may be subject to applicable Federal regulations. Wetland and stream (watercourse) impacts are regulated at the Federal level by Sections 404 and 401 of the Clean Water Act. The US Army Corps of Engineers (USACE) is responsible for administering compliance with Section 404 via the issuance of Nationwide or Individual Permits for any fill or dredging activities within wetlands under USACE jurisdiction. If no actions are proposed that would directly impact a wetland or stream, then no coordination with the USACE is necessary for Section 404 compliance.

## 4.2 State Regulations

Wetlands on the Site are subject to applicable State regulations. However, City regulations retaining to wetlands and streams are based on state guidelines and will dictate critical areas protections.

#### 4.2.1 Washington State Department of Ecology (ECY)

Any project that is subject to Section 404 permitting is also required to comply with Section 401 Water Quality Certification, which is administered by the Washington State Department of Ecology (DOE). If no actions are proposed that would directly impact a wetland or stream, then no coordination with the USACE is necessary for Section 404 compliance, which would also include Section 401 compliance.

#### 4.2.2 Washington State Department of Fish and Wildlife (WDFW)

Projects that have the potential to affect the bed or bank of a stream require an Hydraulic Project Application (HPA) permit through the WDFW. Stormwater infrastructure itself does not require an HPA unless occurring within proximity to a stream. If the project does not occur within proximity to a stream that would trigger an HPA, then no WDFW coordination would be necessary.

# 4.3 Local Regulations

The Site falls within the City of Issaquah limits and is subject to the regulations of the Issaquah Municipal Code (IMC).

#### 4.3.1 Shoreline Jurisdiction

The Site does not occur within Shoreline jurisdiction.

#### 4.3.2 Non-Shoreline Jurisdiction

Critical areas on the Site are subject to the regulations of IMC Chapter 18.802 Critical Areas Regulations.



#### Wetlands

The wetland delineated onsite rated as a Category IV wetland with a 50-foot standard buffer for high intensity land use. The onsite buffer is mostly built environment, including the drive aisle of the Issaquah Transit Center. Where vegetation exists, it is mostly native vegetation.

Private utilities may occur within the outer 25% of a buffer with conditions, as can pedestrian trails.

#### Streams

No streams occur on or near the Site.

#### Building/Structure Setback

The stream buffers require a 15-foot building setback line to prevent encroachment into the critical areas following construction.

#### 4.3.3 Flood Hazard Area

No 100-year floodplains are mapped on or adjacent to the Site.



# 5. Summary

The Site is a developed four (4) acre property located within the urban area of Issaquah. The Site is located north of Tibbetts Valley Park and the Issaquah Transit Center. One (1) feature was identified onsite along the western boundary that met the definition of a wetland and was delineated as such. This feature rated as a Category IV wetland with a 50-foot standard buffer for a high intensity land use and 15-foot building setback.

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# 6. References

- 1. Anderson, P. S., Meyer, S., Olsen, P., & Stockdale, E. (2016). *Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State*. Lacey, WA: Washington Department of Ecology, Shorelines & Environmental Assistance Program.
- 2. Cowardin, L. M., Carter, V., Golet, F. C., & LaRoe, E. T. (1979). *Classification of Wetlands and Deepwater Habitats of the United States*. Washington, DC: U.S. Department of the Interior, Fish and Wildlife Service.
- 3. Environmental Laboratory. (1987). "*Corps of Engineers Wetlands Delineation Manual*," Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- 4. Issaquah Municipal Code (IMC) Chapter 18.802 Critical Areas Regulations (accessed 11 October 2024).
- 5. Hruby, T. (2014). *Washington State Wetland Rating System for Western Washington*: 2014 Update (Publication #14-06-029). Olympia, WA: Washington Department of Ecology.
- Lichvar, R. (2012). The National Wetland Plant List. Hanover, NH: U.S. Army Corps of Engineers, Cold Regions
   Research and Engineering Laboratory. Retrieved from http://acwc.sdp.sirsi.net/client/search/asset:asset?t:ac=\$N/1012381
- 7. U.S. Army Corps of Engineers. (2010, May). Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0). U. S. Army Corps of Engineers. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- 8. United States Department of Agriculture, Natural Resources Conservation Service. 2024. *Field Indicators of Hydric Soils in the United States, Version* 9.0. L.M. Vasilas, G.W. Hurt, and J.F. Berkowitz (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.



# APPENDIX A

Jennifer Marriott, PWS - Resume Kristen Numata, PWS - Resume

## Jennifer M. Marriott, PWS

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jen@wet.land

Work: 206-309-8100 | Cell: 813-846-1684



#### **QUALIFICATIONS**

- Master of Science, Soil Science, University of Florida, Gainesville, FL, 2010
- Master of Science, Biology (Ecology), University of Central Florida, Orlando, FL, 2003
- Bachelor of Science, Biology, University of Central Florida, Orlando, FL, 2001
- Professional Wetland Scientist (No. 1891)

#### **FOCUS AND EXPERTISE**

- Project Management
- Project Summaries and Rapid Environmental Due Diligence Reports
- Wetland and Stream Delineations/Habitat Evaluation
- Wetland (Critical Areas) Permitting
- Mitigation Planning
- Wetland Functional Assessment
- Hydric Soil Determinations
- Training and Mentoring

#### **EXPERIENCE**

- Senior Ecologist/Owner; Wet.land, LLC; March 2020 Present
- Senior Ecologist/Project Manager; Talasaea Consultants, Inc.; June 2015 March 2020
- Senior Project Scientist; BL Companies, Inc.; July 2012 July 2014
- Environmental Scientist 3; RETTEW Associates, Inc.; March 2011 February 2012
- Ecologist; Cardno-ENTRIX, Inc. (formerly known as ENTRIX, Inc., fka Biological Research Associates); July 2003 – March 2011

#### **SKILLS, TRAINING & PROFESSIONAL MEMBERSHIPS**

- Washington (Coastal Training Program Workshops)
  - Multiple hydric soils training workshops (2008 to present; Florida, Pennsylvania, Ohio, Washington)
  - o Revised Washington State Wetland Rating System, 2014 (April 2015, October 2022)
  - o Using the Credit-Debit Method for Estimating Mitigation Needs (October 2015)
  - o Using Field Indicators for Hydric Soils (November 2015)
  - Grass, Sedge, and Rush Identification for Western WA Puget Lowland Habitats (March 2016)
  - o How to Determine the Ordinary High Water Mark (September 2016)
  - WSDOT Biological Assessment Training (2022)
  - o Salmon Ecology and Habitat Restoration (NWETC, 2023)

# Kristen Numata, PWS

PO Box 155, Redmond, WA 98073

kristen@wet.land

Work: 206-309-8100 | Cell: 206-930-4845



#### **QUALIFICATIONS**

- Wetland Science and Management Certificate, University of Washington Professional Continuing Education, Seattle, WA, 2016
- Bachelor of Science, Biology, Santa Clara University, Santa Clara, CA, 2014
- Bachelor of Science, Environmental Science, Santa Clara University, Santa Clara, CA, 2014
- Professional Wetland Scientist (No. 3412)
- Certified Erosion and Sediment Control Lead (No. 70592)

#### **FOCUS AND EXPERTISE**

- Critical Areas Delineations and Site Assessments
- Wetland Functional Assessment
- Geographic Information Systems
- Critical Area Permitting
- Mitigation Planning and Performance Monitoring
- Environmental Compliance and Construction Oversight

#### **EXPERIENCE**

- Ecologist/Owner; Wet.land, LLC; January 2022 Present
- Project Biologist; PBS Engineering and Environmental, Inc.; July 2019 December 2021
- Biologist/Environmental Scientist; David Evans and Associates, Inc.; July 2018 July 2019
- Ecologist; Talasaea Consultants, Inc.; July 2015 July 2018

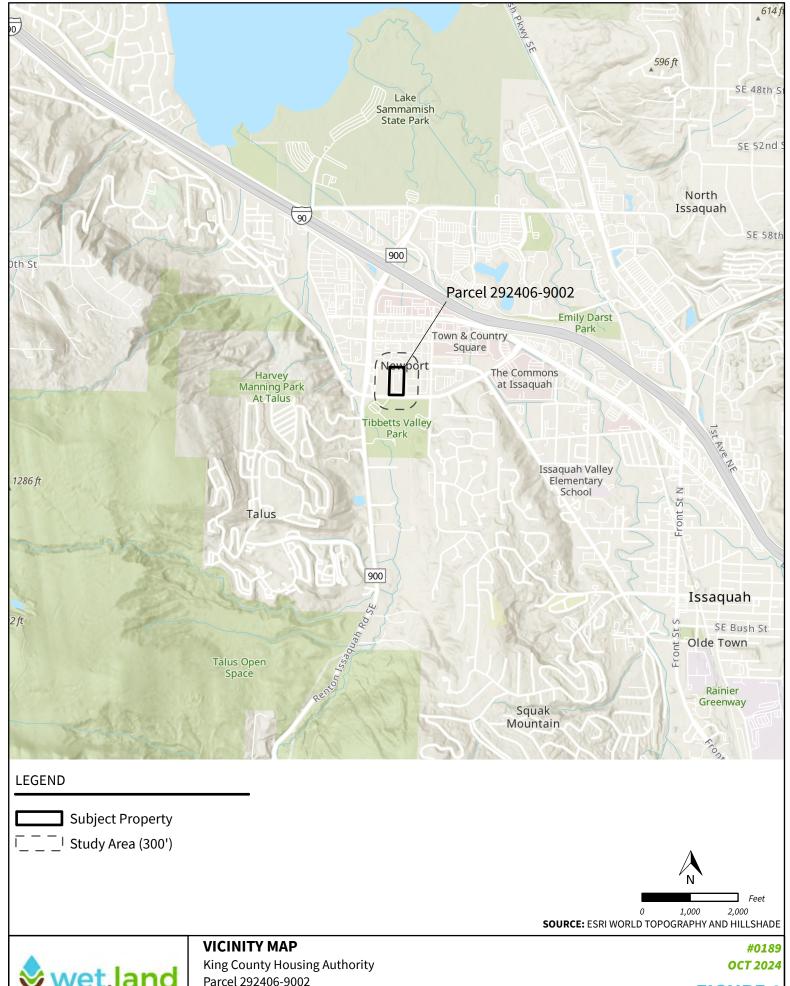
#### **SKILLS, TRAINING & PROFESSIONAL MEMBERSHIPS**

- Washington (Coastal Training Program Workshops)
  - Revised Washington State Wetland Rating System, 2014 (March 2016, October 2022)
  - o Using the Credit-Debit Method for Estimating Mitigation Needs (April 2017)
  - o How to Determine Ordinary High Water Mark (June 2017)
  - Grass, Sedge, and Rush Identification for Western WA Puget Lowland Habitats (February 2018)
  - Winter Tree and Shrub Identification for Western WA Puget Lowland Habitats (February 2019)
  - Navigating SEPA (March 2019)
- Other Technical Training
  - Junior Author, Washington State Department of Transportation (WSDOT) Biological Assessment Preparation for Transportation Projects Training (March 2020)
  - Fish Passage: Inventory and Assessment, Washington Department of Fish and Wildlife,
     (WDFW) (August 2020)
  - o Fish Passage: Habitat Survey, WDFW (August 2020)



# APPENDIX B

Figures

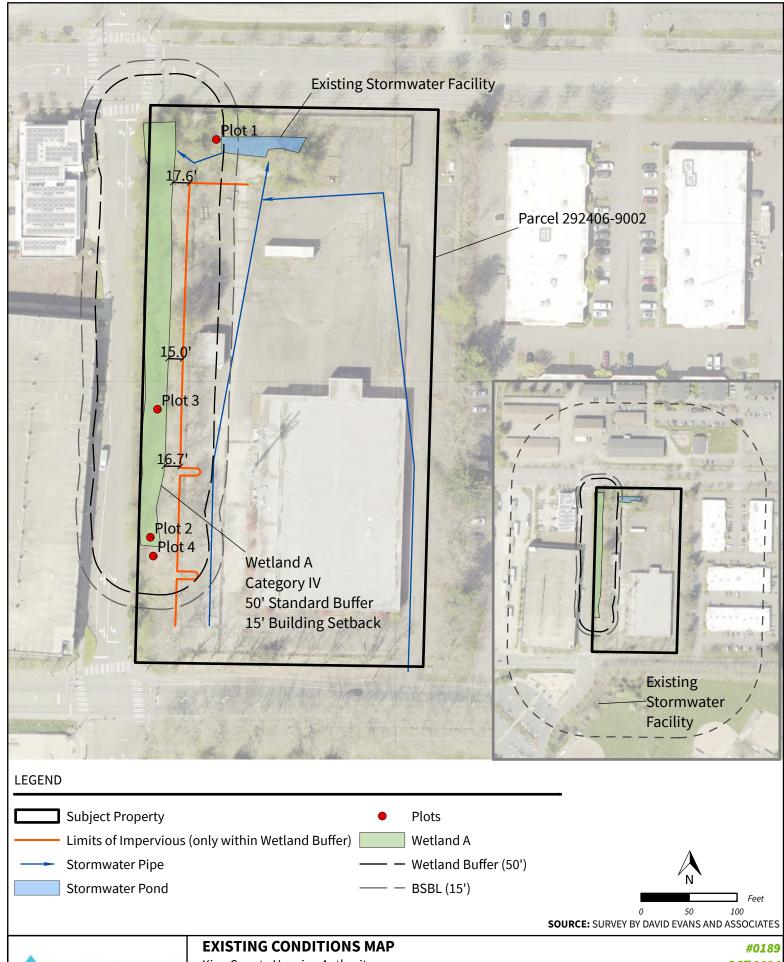




Parcel 292406-9002

1550 Newport Way Northwest, Issaquah, Washington

**FIGURE 1** 





King County Housing Authority Parcel 292406-9002 1550 Newport Way Northwest, Issaquah, Washington #0189 OCT 2024

FIGURE 2



# APPENDIX C

Topographic Survey

SYMBOL LEGEND

**GAS METER** 

GV GAS VALVE

EJB ELECTRICAL JUNCTION BOX

→ PP POWER POLE

GA UTILITY POLE ANCHOR

SL STREET LIGHT

P PV POWER VAULT

△ XFR PAD MOUNTED TRANSFORMER

⊠ SLB STREET LIGHT BOX

PM POWER METER

TS TRAFFIC SIGNAL

TSV TRAFFIC SIGNAL VAULT

TR TELEPHONE JCT. RISER

TMH TELEPHONE MANHOLE

SGN SIGN

WETLAND FLAG LOCATION

TEST PLOT

Y SH SPRINKLER HEAD

⊕ MIC FOUND MONUMENT IN CASE

BENCH MARK

SET LEAD AND TACK

REBAR WITH CAP
"DEA 21467"

CLF CHAIN LINK FENCE
CONC CONCRETE

EXTR EXTRUDED CURB

FFE FINISHED FLOOR ELEVATION

PA PLANTER AREA

R/W RIGHT OF WAY

R/W RIGHT OF WAY
SWD STATUTORY WARRANTY DEED

# HATCH LEGEND

CONCRETE

ASPHALT PAVEMENT

EXISTING BUILDING

# TREE LEGEND



DECIDUOUS TREE
DEC DECIDUOUS
M MAPLE

# LINE LEGEND

ss	SANITARY SEWER LINE
SD	STORM DRAIN
w	WATER LINE
OHP	POWER OVERHEAD
P	POWER BURIED
TEL	TELEPHONE BURIED
TV	CABLE TELEVISION BURIED
G	GAS LINE
XX	FENCE LINE

# LEGAL DESCRIPTION

LOT 2, CITY OF ISSAQUAH SHORT PLAT NO. SP-79-12, RECORDED UNDER RECORDING NUMBER 8001020405, AND REVISED BY INSTRUMENT RECORDED UNDER RECORDING NUMBER 9510199010, RECORDS OF KING COUNTY, WASHINGTON;

EXCEPT THAT PORTION CONVEYED TO THE CITY OF ISSAQUAH BY DEED RECORDED UNDER RECORDING NUMBER 9406302366;

SITUATE IN THE CITY OF ISSAQUAH, COUNTY OF KING, STATE OF WASHINGTON.

# NOTES CORRESPONDING TO SCHEDULE B SPECIAL EXCEPTIONS

PER COMMITMENT PROVIDED BY FIDELITY NATIONAL TITLE OF WASHINGTON, INC., FILE NO. 20375033-416-416, EFFECTIVE COMMITMENT DATE OF APRIL 24, 2017 AT 8:00 A.M.

ITEMS 1 THROUGH 4 AND 7 THROUGH 8, INCLUSIVE, PERTAIN TO TAXES, SEWER TREATMENT CAPACITY CHARGES, DEED OF TRUST AND UNRECORDED LEASEHOLDS AND OTHER INFORMATIONAL DOCUMENTS. SAID ITEMS DO NOT PERTAIN TO THIS ALTA/NSPS LAND TITLE SURVEY.

5. THIS PROPERTY IS SUBJECT TO COVENANTS, CONDITIONS, RESTRICTIONS, RESERVATIONS, EASEMENTS OR OTHER SERVITUDES, IF ANY, DISCLOSED BY THE SHORT PLAT RECORDED UNDER RECORDING NO. 8001020405 AND REVISIONS THERETO BY INSTRUMENT RECORDED UNDER RECORDING NO. 9510199010.

6. THIS PROPERTY IS SUBJECT TO AN EASEMENT FOR THE PURPOSE OF AN UNDERGROUND ELECTRIC SYSTEM IN FAVOR OF PUGET SOUND POWER & LIGHT COMPANY, AS DISCLOSED BY INSTRUMENT RECORDED MARCH 25, 1981 UNDER RECORDING NUMBER 8103250387, RECORDS OF KING COUNTY, WASHINGTON. CONTAINS COVENANT PROHIBITING STRUCTURES OVER SAID EASEMENT OR OTHER ACTIVITIES WHICH MIGHT ENDANGER THE UNDERGROUND SYSTEM. (THIS EASEMENT HAS BEEN GRAPHICALLY DEPICTED HEREON.)

FLOOD ZONE INFORMATION

CORPORATION IN AUGUST 2024.

STANDARDS SET BY WAC 332-130-090.

**GENERAL NOTES** 

BY GRAPHICAL PLOTTING ONLY THIS PROPERTY LIES WITHIN ZONE "X" (AREA DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN) AS IDENTIFIED ON FLOOD INSURANCE RATE MAP NUMBER 53033C0691J, BEARING A REVISION DATE OF AUGUST 19, 2020.

1. EASEMENTS AND LEGAL DESCRIPTION ARE BASED ON THE TITLE REPORT BY FIDELITY

NATIONAL TITLE OF WASHINGTON, INC., ORDER NO. 20375033-416-416, DATED APRIL 24, 2017, AT

2. PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED

UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING TRIMBLE R10 GNSS EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING TRIMBLE VX SPATIAL STATION FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE

3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON

4. UTILITY LOCATIONS SHOWN ON THIS SURVEY DRAWING ARE BASED UPON FIELD LOCATION OF

BASED ON PAINT MARKS OR OTHER MARKINGS ESTABLISHED BY A UTILITY LOCATE SERVICE AND

EXISTING UTILITY STRUCTURES, FIELD LOCATION OF CONDUCTIBLE UNDERGROUND UTILITIES

UTILITY LOCATIONS BASED ON UTILITY MAPS PROVIDED BY UTILITY PURVEYORS. OTHER

UNDERGROUND UTILITIES MAY EXIST. NO SUB-SURFACE EXPLORATION WAS DONE TO VERIFY

UTILITY ROUTINGS. THE ROUTING OF ALL BURIED UTILITIES SHOULD BE CONFIRMED WITH THE

6. WETLANDS WERE DELINEATED ON THE WEST SIDE OF THE SUBJECT PROPERTY BY WET.LAND

JUNE 29-JULY 21, 2017, UPDATED IN SEPTEMBER 2024, AND CAN ONLY BE CONSIDERED AS

INDICATING THE GENERAL CONDITION EXISTING AT THOSE TIMES.

UTILITY PURVEYOR AND EXPOSED IN AREAS CRITICAL TO DESIGN.

5. GROSS LAND AREA: 174,189 S.F. (4.0 ACRES)

# **ZONING INFORMATION**

ZONING CLASSIFICATION FOR SUBJECT PROPERTY IS UC (URBAN CORE).

# HORIZONTAL DATUM NAD 83/2011

# BASIS OF BEARINGS

HELD A BEARING OF NORTH 01°35'43" EAST ALONG THE CENTERLINE OF 12th AVE NW BETWEEN FOUND STREET MONUMENTS AT THE INTERSECTION OF 12th AVE NW WITH NEWPORT WAY NW AND THE INTERSECTION OF 12th AVE NW WITH NW MAPLE ST.

RTICAL DATUM NA

NAVD 88

# BENCH MARKS

TBM 'A': CHISELED SQUARE IN NW CORNER OF TRANSFORMER PAD,

BY SE PROPERTY CORNER, EL=78.53'

TBM 'B': TOP SE BOLT AT THE BASE OF TRAFFIC SIGNAL POLE, BY SW PROPERTY CORNER, EL=79.44'

# SURVEY REFERENCES

CITY OF ISSAQUAH SHORT PLAT NO. SP-79-12, REC. NOS. 8001020405 AND 9510199010

CITY OF ISSAQUAH SHORT PLAT NO. PLN 06-00147 DF, REC. NO. 20090911900003

ROWLEY INDUSTRIAL PARK, VOL 130 OF PLATS, PGS 4-7, REC. NO. 8502130803

ISSAQUAH BUSINESS CENTER, VOL 177 OF PLATS, PGS 77-78, REC. NO. 9610030885

RECORD OF SURVEY FOR US POSTAL SERVICE, REC. NO. 8704099003

RECORD OF SURVEY FOR SR 900 R/W CENTERLINE ALIGNMENT, REC. NO. 20030409900010

ALL RECORDS OF KING COUNTY, WASHINGTON

NW GILMAN ST

NW MALL ST

NW MAPLE ST

SITE

NEWPORT WAY NW

VICINITY MAP NOT TO SCALE

s: 10/1/2024 10:38 AM by: Charles Cornwall ite: 10/1/2024 10:37 AM By: Cpc File: P:\K\KCHA00006077\0400CAD\SV\BASES\SV-

TRAILHEAI KING COUNTY I 1550 NEWPORT W

P. CHRISTERS

P.

REVISIONS:

DATE: DESIGN:	SEPT. 26,	2024

NUMBER: SCALE: 1"=20'

PROJECT NUMBER:

KCHA00006077

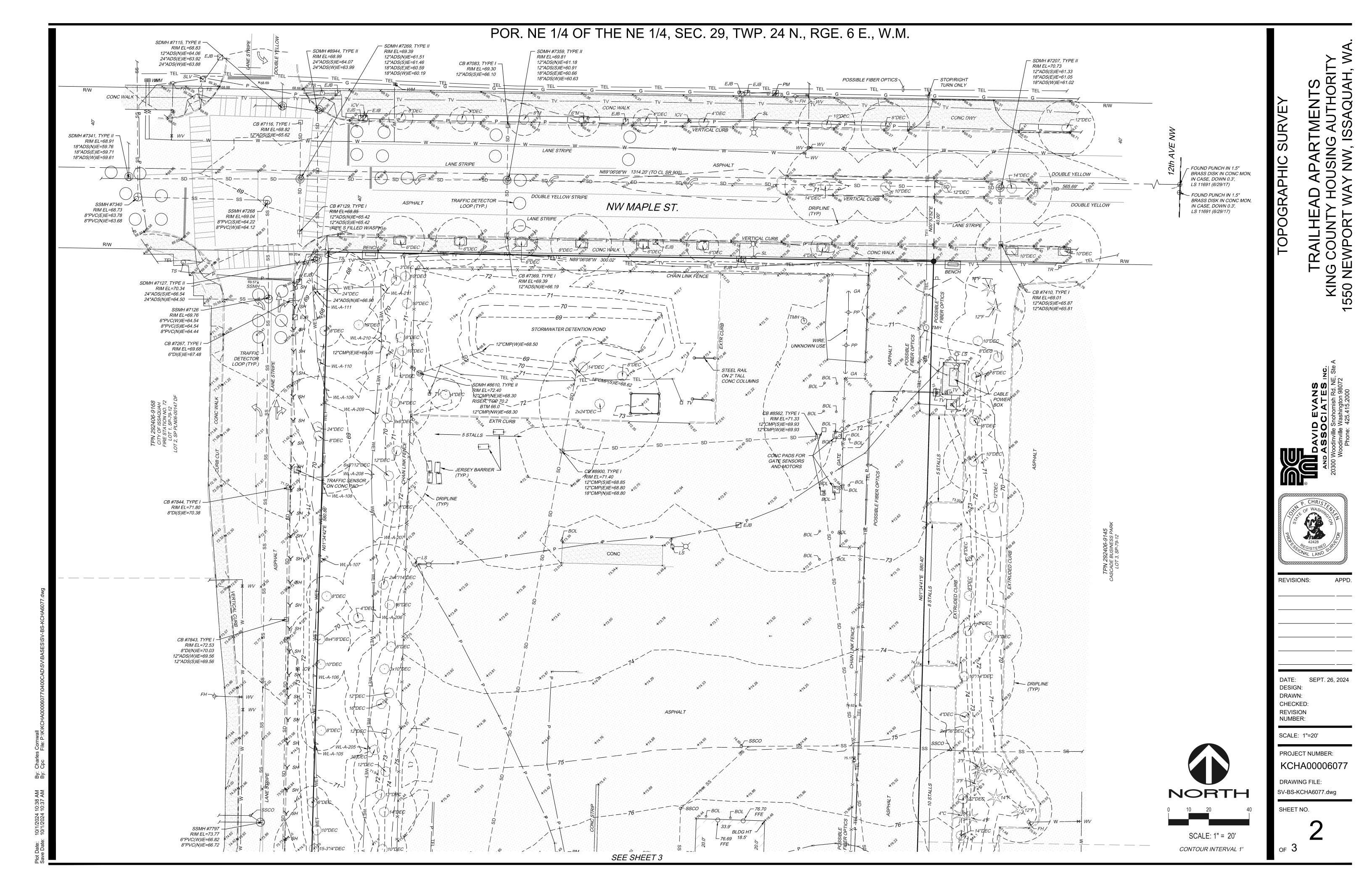
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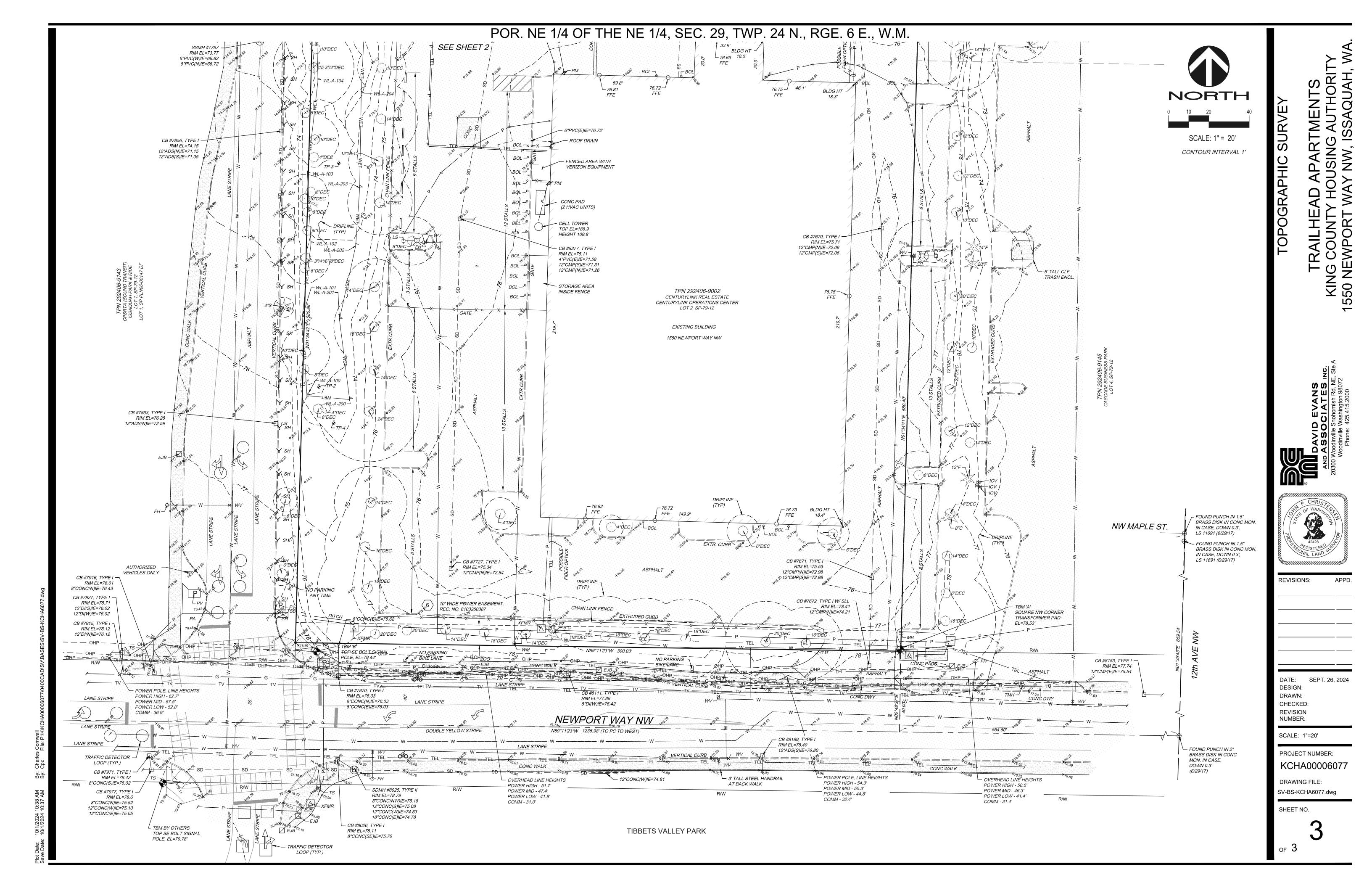
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SHEET NO.

DRAWN:

CHECKED: REVISION







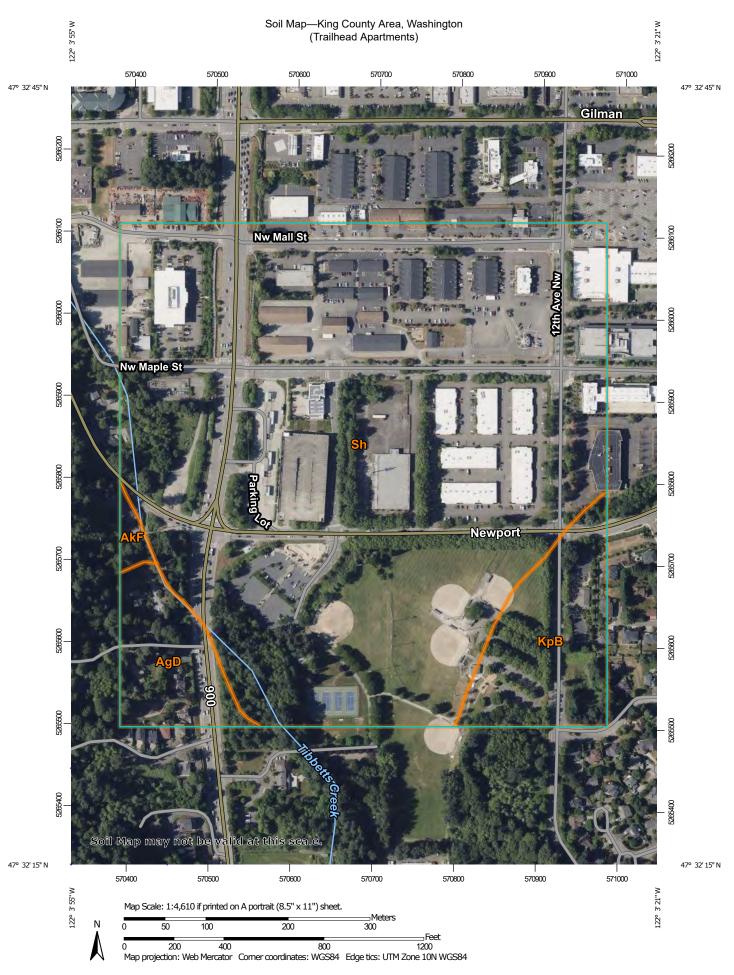
# APPENDIX D

Agency Database Results



# Agency Database Websites

Database	Agency (Database Manager)	Website		
Township, Range, Section Map	WSDOT	https://www.arcgis.com/home/webmap/viewer.htm ?useExisting=1&layers=97a5ae98d8d04458860f64e20 d155c4		
Watershed Boundaries	ECY	https://www.arcgis.com/home/webmap/viewer.html ?url=https%3A%2F%2Fhydro.nationalmap.gov%2Far cgis%2Frest%2Fservices%2Fwbd%2FMapServer&sour ce=sd		
Websoils	NRCS	https://websoilsurvey.sc.egov.usda.gov/App/WebSoil Survey.aspx		
National Wetlands Inventory	USFWS	https://www.fws.gov/wetlands/data/Mapper.html		
Map Service Center	FEMA	https://msc.fema.gov/portal/home		
Washington State Water Quality Atlas	ECY	https://apps.ecology.wa.gov/waterqualityatlas/wqa/ map		
Priority Habitats and Species (PHS)	WDFW	https://geodataservices.wdfw.wa.gov/hp/phs/		
Forest Practices Application Mapping Tool	WDNR	https://fpamt.dnr.wa.gov/default.aspx		
Statewide Integrated Fish Distribution (SWIFD) Web Map	NWIFC	https://geo.nwifc.org/swifd/		
Washington State Fish Passage	WDFW	https://geodataservices.wdfw.wa.gov/hp/fishpassage /index.html		



#### MAP LEGEND

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Water Features

Transportation

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Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons



Soil Map Unit Points

#### Special Point Features

(o) 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

## 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: Mar 1, 2023—Sep 1, 2023

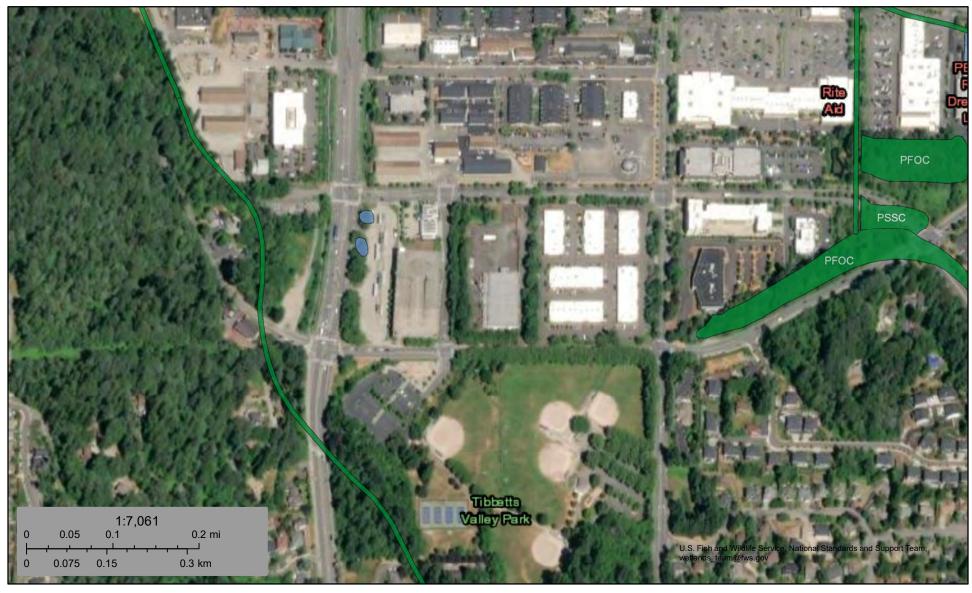
The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
AgD	Alderwood gravelly sandy loam, 15 to 30 percent slopes	5.3	5.8%		
AkF	Alderwood and Kitsap soils, very steep	0.6	0.7%		
КрВ	Kitsap silt loam, 2 to 8 percent slopes	8.1	9.0%		
Sh	Sammamish silt loam	76.7	84.5%		
Totals for Area of Interest		90.7	100.0%		

# U.S. Fish and Wildlife Service National Wetlands Inventory

# **Trailhead Apartments**



October 11, 2024

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

\_\_\_ Othe

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# National Flood Hazard Layer FIRMette

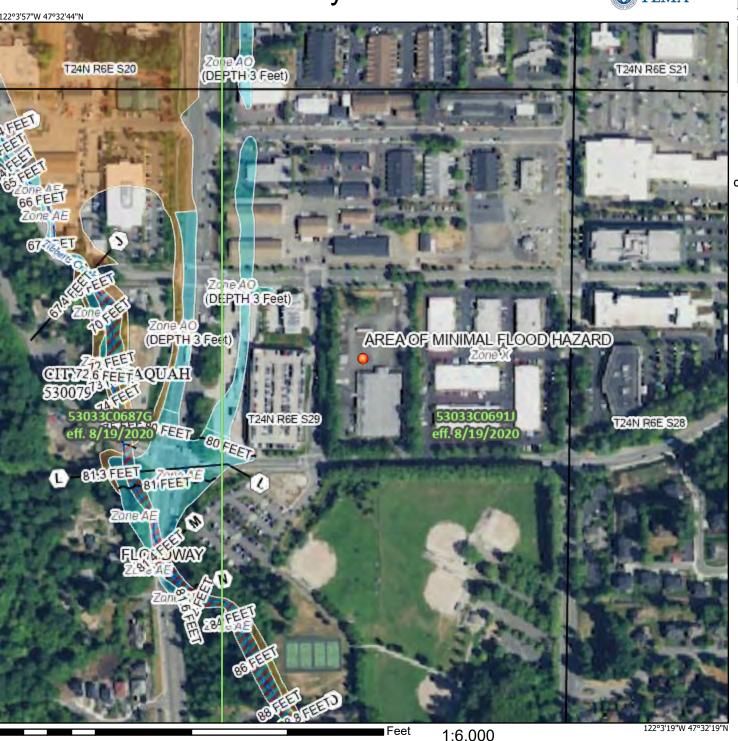
250

500

1,000

1,500

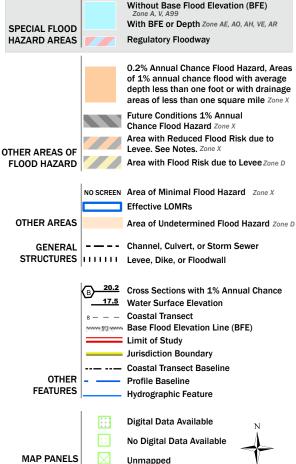




2,000

#### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

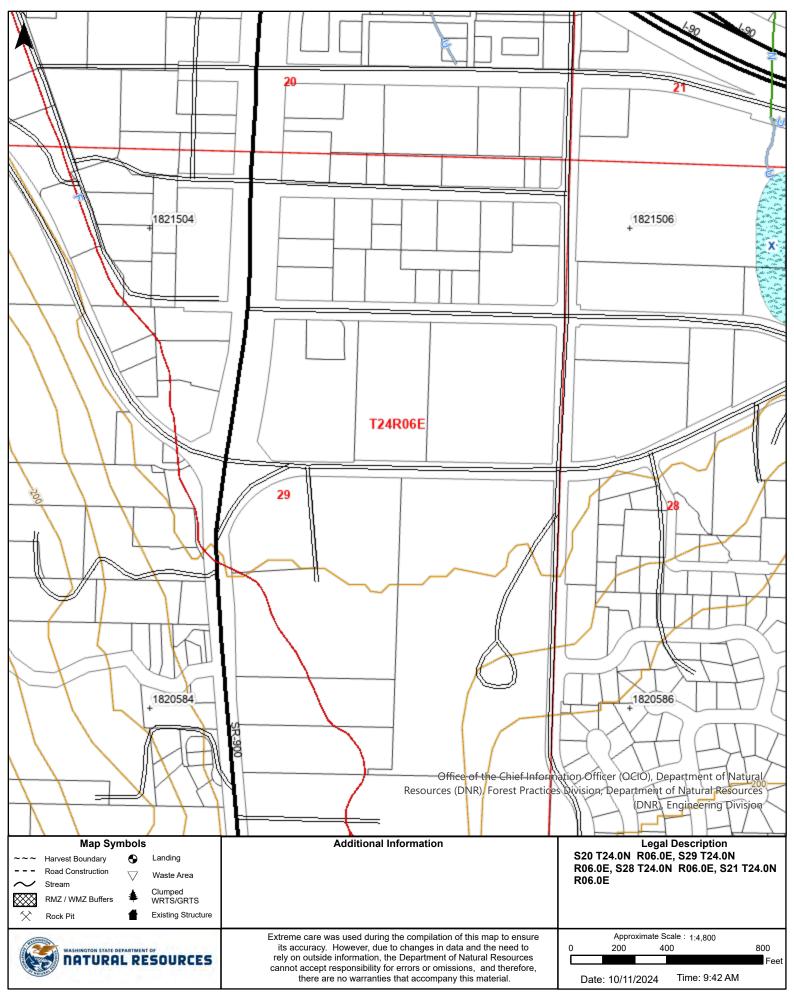
The pin displayed on the map is an approximate point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/11/2024 at 12:17 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

# Forest Practices Activity Map - Application #\_\_\_\_\_



# King County iMap



The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a survey product. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County.

Date: 10/11/2024 Notes:







# **APPENDIX E**

Photodocument



Panorama from northeast corner of the property. 12 July 2024.



Stormwater pond along north property line. 12 July 2024.



Stormwater pond along north property line. Location of Plot 1. 12 July 2024.



Existing buildings and impervious area. 12 July 2024.



Existing buildings and impervious area. 12 July 2024.



Wetland A. 13 August 2024.



Wetland A. 13 August 2024.



Stormwater pipe outlet into Wetland A. 13 August 2024.



Wetland A. 13 August 2024.



# APPENDIX F

Appendix G  $\it Historical\ Documentation$  of the Phase I Environmental Site Assessment, prepared by EBI Consulting

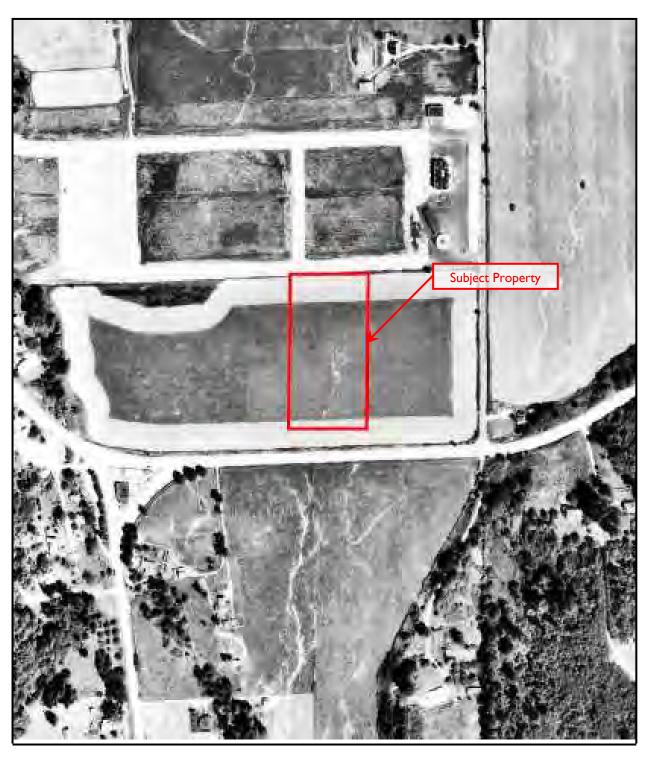
# APPENDIX G HISTORICAL DOCUMENTATION





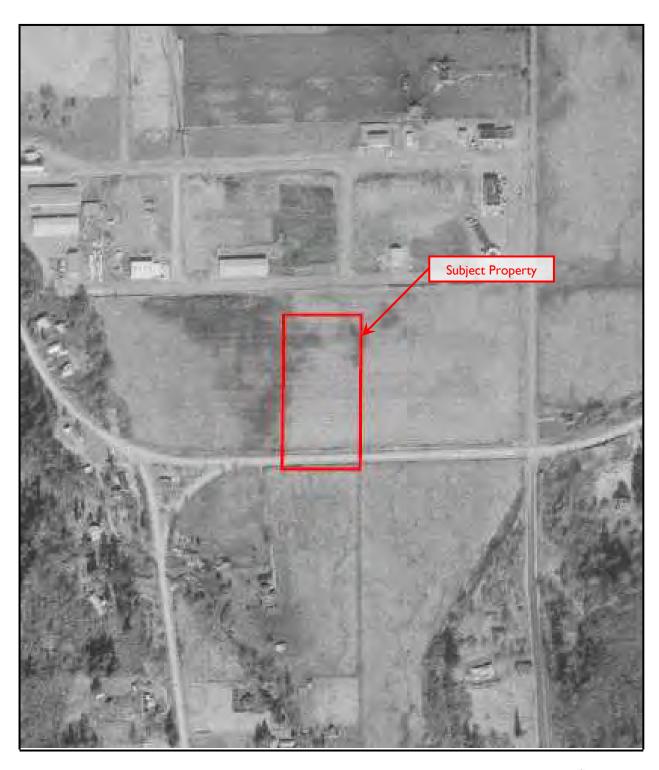




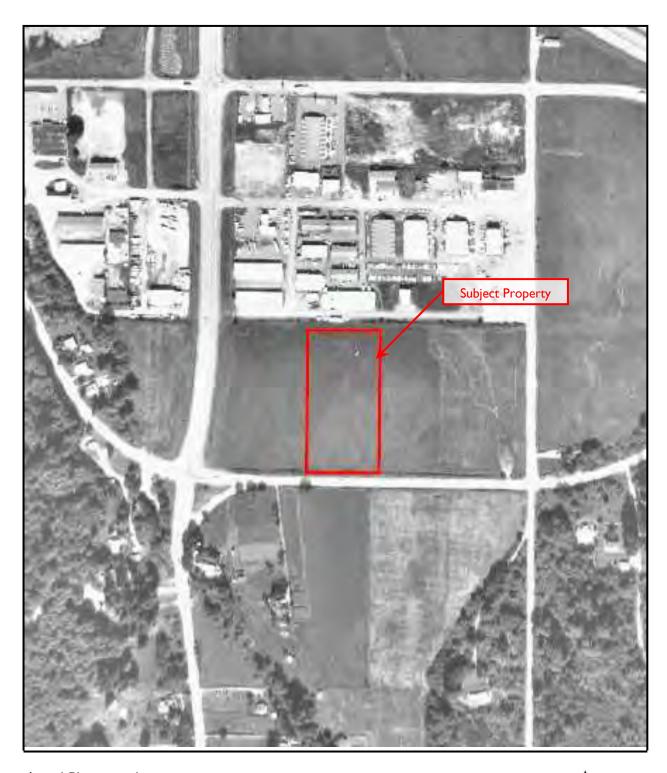


Aerial Photograph





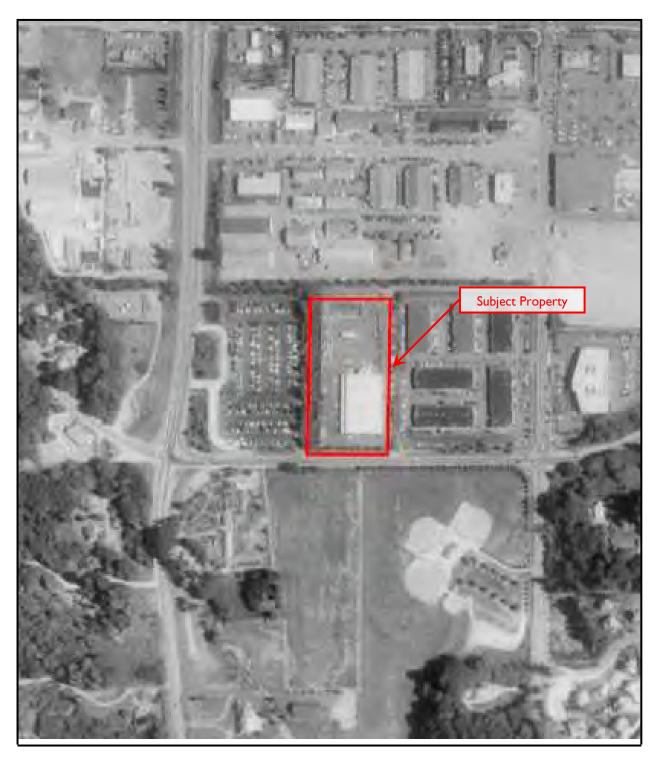


























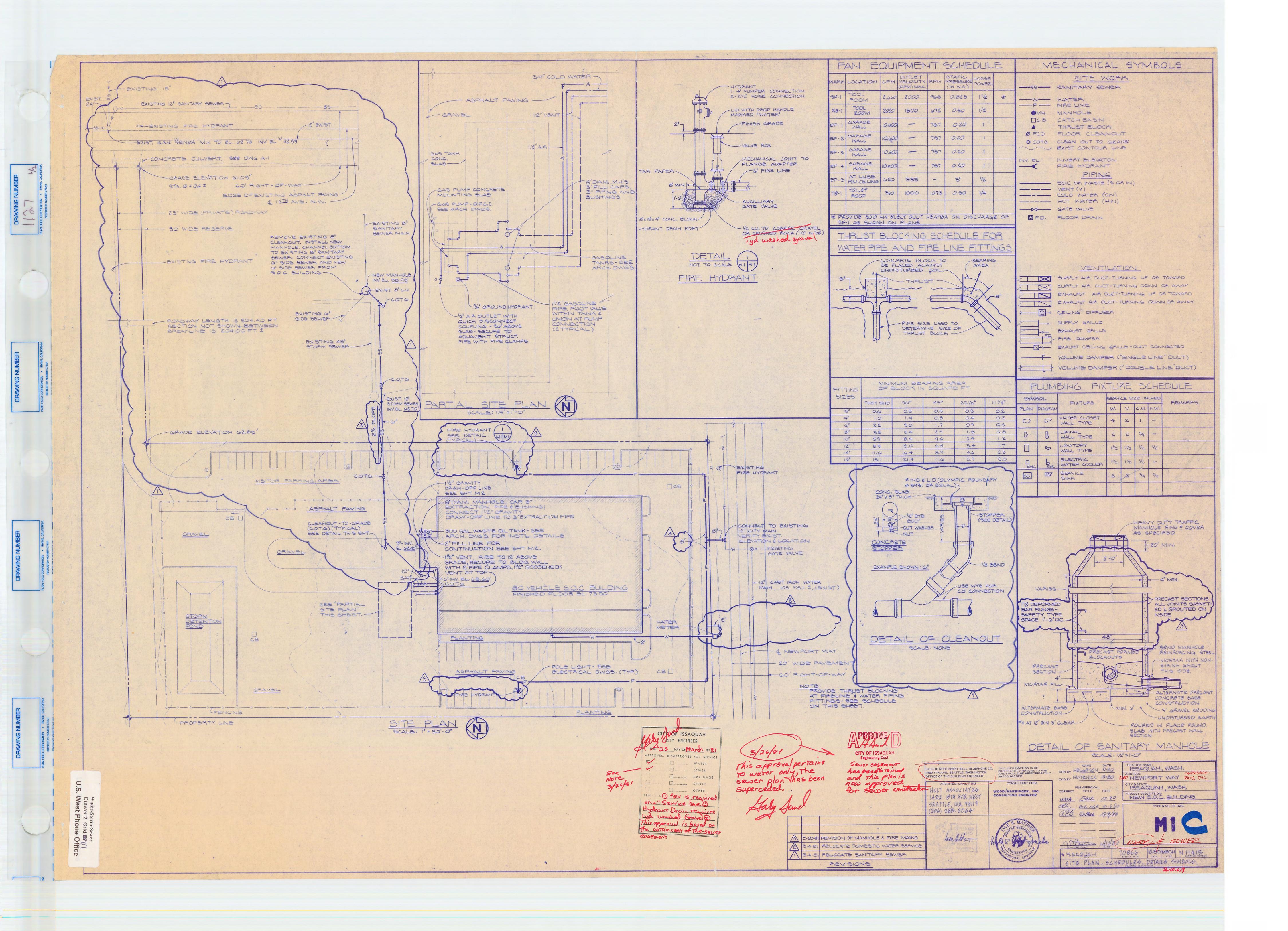


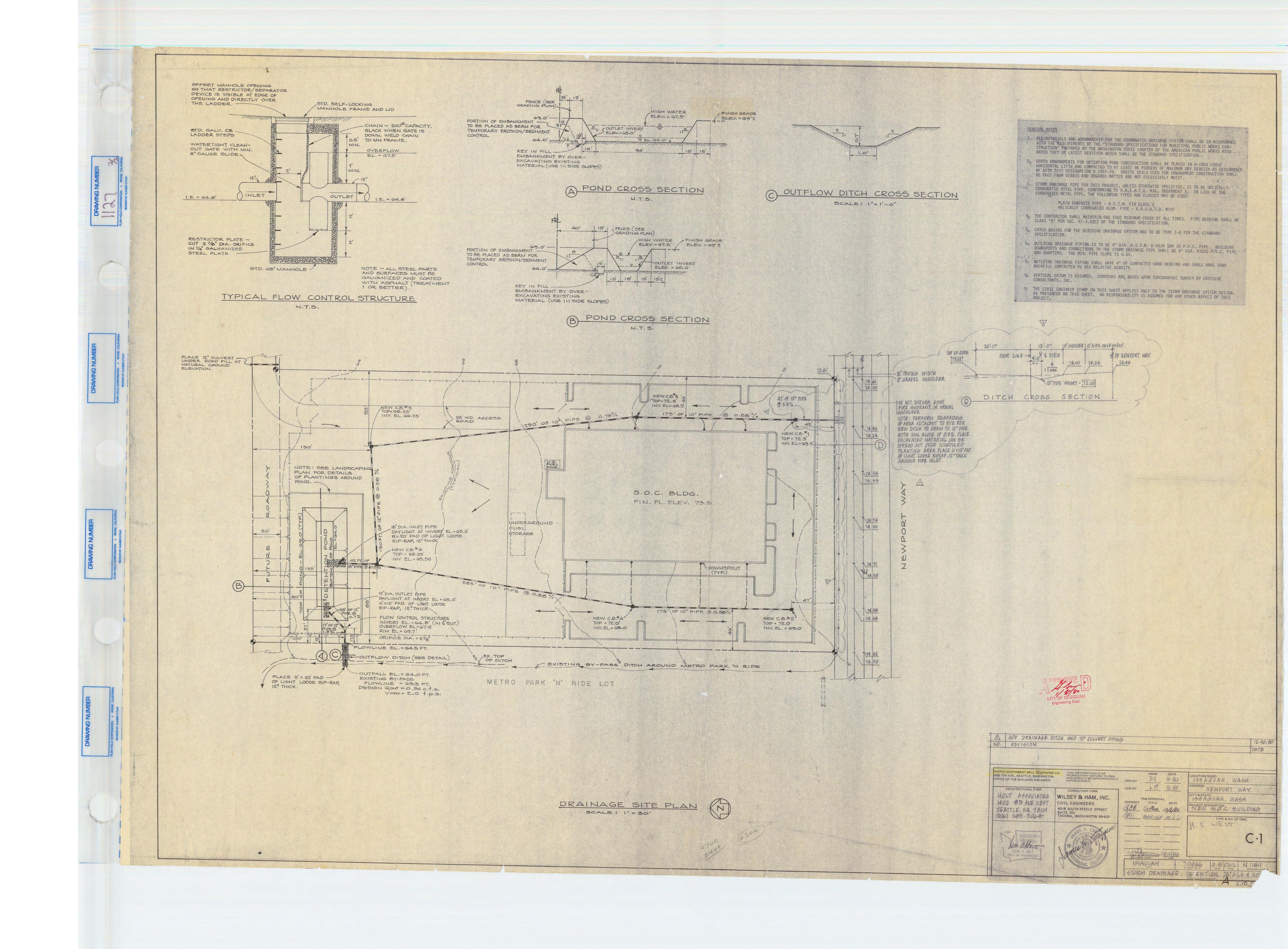




# APPENDIX G

Drainage Site Plan, 1980







# APPENDIX H

Wetland Data Sheets

### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Trailhead Apartments	City	/County: Issaqı	uah/King	Sampling Date: 8/13/2024
Applicant/Owner: King County Housing Authority		State: WA		Sampling Point: 1
Investigator(s): JMM, KN	Section	n, Township, Ra	ange: NE	1/4 of Section 29, Township 24 North, Range 6 East
Landform (hillslope, terrace, etc.): Terrace	- L	ocal relief (cond	cave, conve	x, none): None Slope (%): 5+
Subregion (LRR): LRR A - Northwest Forests and Co	ast	Lat: 4	7.542789	Long: -122.060733 Datum: WGS84
Soil Map Unit Name: Sammamish silt loam			NW	I Classification: None
Are climatic/hydrologic conditions of the site typical for	this time of	the year?	Yes X	No (If no, explain in remarks)
Are vegetation , Soil , or Hydrology		significantly of		Are "Normal Circumstances"
Are vegetation , Soil , or Hydrology		naturally prol		present? (If needed, explain any answers in remarks)  Yes X No
SUMMARY OF FINDINGS - Attach site map sh	nowing sa			
Hydrophytic vegetation present? Yes	Х	No		
Hydric soil present? Yes		No X		ampled area a wetland?
Indicators of wetland hydrology present? Yes		No X	Within	Yes No X
Remarks: Unpaired plot at the northwest corner of the	e plot betwe	en Wetland A	I and the stor	mwater pond.
The manner of particular and meaning the manner of the man	, p.o. 20111			a.s. polia
VECETATION				
VEGETATION Use scientific names of plant		Daminant	la dia atau	Dominance Test Worksheet
<u>Tree Stratum</u> (Plot size: 30' r )	Absolute % Cover	Dominant Species	Indicator Status	
1. Alnus rubra	30	Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
2.		<u> </u>		Total Number of Dominant Species
3.				Across all Strata: 4 (B)
4.		<del></del>		Percent of Dominant Species that
	30	= Total Cover		are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size: 30' r )				
1. Salix sitchensis	20	Y	FACW	Prevalence Index Worksheet
2				Total % Cover of: Multiply by:
3				OBL species 0 x 1 = 0
4 5.				FACW species 20 x 2 = 40 FAC species 40 x 3 = 120
5	20	= Total Cover		FACU species 5 x 4 = 20
Herb Stratum (Plot size: 5' r )		- 10tal 00vol		UPL species $0 \times 5 = 0$
1. Unidentifiable grass	40	Υ	(FAC)	Column totals 65 (A) 180 (B)
2. Hedera helix	5	N	FACU	Prevalence Index = $B/A = 2.77$
3.				
4.				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6				X 2 - Dominance Test is >50%
7				3 - Prevalence Index is ≤3.0
8. 9.				4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)
10.				5 - Wetland Non-Vascular Plants <sup>1</sup>
11.				Problematic Hydrophytic Vegetation <sup>1</sup>
···	45	= Total Cover		(Explain)
Woody Vine Stratum (Plot size: 30' r )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
1. Rubus armeniacus	10	Υ	FAC	present, unless disturbed or problematic
2.				Hydrophytic
	10	= Total Cover		vegetation
% Bare Ground in Herb Stratum 55				present? Yes X No
Remarks:				

SOIL Sampling Point: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Loc<sup>2</sup> Color (moist) % Color (moist) Texture Type<sup>1</sup> Remarks 0-6 10YR 3/2 100 Dry, friable <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Very Shallow Dark Surface (TF12) Loamy Mucky Mineral (F1) (Except MRLA 1 Hvdrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks Depleted Below Dark Surface (A11 Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) <sup>3</sup>Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Hardpan Depth (inches): 6 **Hydric Soil Present?** No Yes Х Remarks: Unable to dig past 6" **HYDROLOGY** Wetland Hydrology Indicators Secondary Indicators (2 or more required) Primary Indicators (minimum of one is required; check all that apply Water-Stained Leaves (B9) (MLRA 1, Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (CS Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Iron Deposits (B5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Water Table Present? Χ Yes Depth (inches): No X Saturation Present? No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

(includes capillary fringe)

### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Trailhead Apartments	City	/County: Issaqu	uah/King	Sampling Date: 8/13/2024
Applicant/Owner: King County Housing Authority		State: WA		Sampling Point: 2
Investigator(s): JMM, KN	Sectio	n, Township, Ra	ange: NE 1	4 of Section 29, Township 24 North, Range 6 East
Landform (hillslope, terrace, etc.): Terrace	- L	ocal relief (cond	cave, conve	x, none): Slope (%):
Subregion (LRR): LRR A - Northwest Forests and Co	ast	Lat: 47	7.541646	Long: -122.060987 Datum: WGS84
Soil Map Unit Name: Sammamish silt loam				Classification: None
Are climatic/hydrologic conditions of the site typical for	this time of	the year?	Yes X	No (If no, explain in remarks)
Are vegetation , Soil , or Hydrology		-		Are "Normal Circumstances"
Are vegetation , Soil , or Hydrology		naturally prob		present? (If needed, explain any answers in remarks)  Yes X No
SUMMARY OF FINDINGS - Attach site map sh	nowing sa			any answers in remarks)
Hydrophytic vegetation present? Yes	Х	No		, , , , , , , , , , , , , , , , , , , ,
Hydric soil present? Yes	<u>X</u>	No		mpled area
Indicators of wetland hydrology present?  Yes	$\frac{x}{x}$	No	within a	awetland? Yes X No
				103 <u>X</u> 110
Remarks: Wetland A plots (TP 2 and TP 3) paired with	n upiana p	IOT 4.		
<b>VEGETATION</b> Use scientific names of plants	S.			
	Absolute	Dominant	Indicator	Dominance Test Worksheet
<u>Tree Stratum</u> (Plot size: 30' r )	% Cover	Species	Status	Number of Dominant Species that
1				are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant Species Across all Strata: 1 (B)
3. 4.				
T	0	= Total Cover		Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size: 30' r )		_		
1. Cornus alba	80	Υ	FACW	Prevalence Index Worksheet
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 80 x 2 = 160
5.				FAC species 0 x 3 = 0
	80	= Total Cover		FACU species0 x 4 =0
Herb Stratum (Plot size: 5' r )				UPL species $0 \times 5 = 0$
1				Column totals 80 (A) 160 (B)
2				Prevalence Index = B/A = 2.00
3. 4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6.				X 2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0
8.				4 - Morphological Adaptations* (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				5 - Wetland Non-Vascular Plants <sup>1</sup>
11.				Problematic Hydrophytic Vegetation <sup>1</sup>
	0	<ul><li>Total Cover</li></ul>		(Explain)
Woody Vine Stratum (Plot size: 30' r )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
1				present, unless disturbed or problematic
2		T-1-1-0		Hydrophytic
% Bare Ground in Herb Stratum 100	0	<ul><li>Total Cover</li></ul>		vegetation present? Yes X No
				present? Yes X No
Remarks:				

SOIL Sampling Point: 2

Depth	Matrix			dox Feat			_			
(Inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	arks
0-7	10YR 2/2	100					L			
7-9	10YR 2/2	95	7.5YR 4/6	5	С	PL	L			
9-11	10YR 2/2	85	10YR 5/3	10	С	M	L			
			10YR 3/6	5	С	М	L			
11-13+	10YR 2/2	100					L			
				' <u>-</u>						
<sup>1</sup> Type: C=C	oncentration, D=Depl	letion, RM=	Reduced Matrix, C	S=Cover	ed or Coate	ed Sand 0	Grains. <sup>2</sup> L	ocation: PL	=Pore Lini	ng, M=Matrix.
Hydric Soi	I Indicators: (Appli	cable to a	II LRRs, unless o	otherwis	e noted.)		Indi	cators for	Problema	tic Hydric Soils³:
Histoso	, ,		Sandy R	•	•			2 cm Muck	, ,	
	Epipedon (A2)		Stripped	,	•			Red Parent	,	
	Histic (A3) gen Sulfide (A4)			-	neral (F1) atrix (F2)	(Except		very Snalic Other (Expl		urface (TF12)
	ed Below Dark Surfa	ace (A11	Depleted	-	, ,			Other (Expi	alli ili Neli	lidikt
	Dark Surface (A12)	7111) 000	X Redox D		. ,		<sup>3</sup> ln <sub>0</sub>	dicators of l	hvdrophyti	c vegetation and
	Mucky Mineral (S1)				urface (F7)	)				e present, unless
Sandy	Gleyed Matrix (S4)		Redox D	epressio	ns (F8)			•	bed or pro	•
Restrictive	Layer (if present):	:								
Type:	,									
Depth (inch	nes):					Hydrid	Soil Prese	nt? Yes	X	No
Remarks:	·		<u>-</u>			1				
	OGY drology Indicators									
Wetland Hy		f one is rec	quired; check all th	nat apply			Seco	ondary Indi	cators (2 o	or more required)
Wetland Hye Primary Inc	drology Indicators dicators (minimum of e Water (A1)	f one is rec	Water-S	tained Le	eaves (B9)		X	Water-Stair	ned Leave	or more required) s (B9) (MLRA 1,
Wetland Hyde Primary Income Surface High W	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2)	f one is rec	Water-S (except	tained Le			X	Water-Stair <b>2, 4A, and</b>	ned Leave <b>4B)</b>	s (B9) <b>(MLRA 1,</b>
Wetland Hyd Primary Inc Surface High W Saturat	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3)	f one is rec	Water-S (except Salt Crus	tained Le MLRA 1 st (B11)	eaves (B9) , <b>2, 4A, an</b>	d 4B)	X	Water-Stair <b>2, 4A, and</b> Drainage P	ned Leave <b>4B)</b> atterns (B	s (B9) <b>(MLRA 1,</b>
Wetland Hyden Primary Inc. Surface High W Saturat Water	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1)	f one is rec	Water-S (except Salt Crue Aquatic	tained Le MLRA 1 st (B11) Invertebr	eaves (B9) , <b>2, 4A, an</b> rates (B13)	d 4B)	X	Water-Stair <b>2, 4A, and</b> Drainage P Dry-Seasor	ned Leave <b>4B)</b> atterns (B n Water Ta	s (B9) <b>(MLRA 1</b> , 10) able (C2)
Primary Inc Surface High W Saturat Water Sedime	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3)	f one is rec	Water-S (except Salt Crust Aquatic Hydroge	tained Lo MLRA 1 st (B11) Invertebren Sulfide	eaves (B9) , <b>2, 4A, an</b> rates (B13) e Odor (C1	n <b>d 4B)</b> ) )	X	Water-Stair   2, 4A, and  Drainage P  Dry-Seasor  Saturation	ned Leave <b>4B)</b> atterns (B n Water Ta Visible on	s (B9) (MLRA 1, 10) able (C2) Aerial Imagery (C
Primary Inc Surface High W Saturat Water Sedime Drift De	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4)	f one is rec	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presence	tained Lo MLRA 1 st (B11) Invertebren Sulfide I Rhizospe of Red	eaves (B9)  , 2, 4A, an  rates (B13)  e Odor (C1  oheres on l  uced Iron (	id 4B) ) ) Living Ro (C4)	ots (C3) X	Water-Stain  2, 4A, and  Drainage P  Dry-Seasor  Saturation S  Geomorphi  Shallow Aq	ned Leave  4B) atterns (B n Water Ta Visible on c Position uitard (D3)	s (B9) (MLRA 1, 10) able (C2) Aerial Imagery (C (D2)
Primary Inc Surface High W Saturat Water Sedime Drift De Algal M	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5)	f one is rec	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I	tained Le MLRA 1 st (B11) Invertebren Sulfide I Rhizospe of Red ron Red	eaves (B9)  , 2, 4A, an  rates (B13)  e Odor (C1  oheres on I  uced Iron oution in Ti	id 4B)  ) Living Ro (C4) illed Soils	ots (C3) X	Water-Stain 2, 4A, and Drainage P Dry-Seasor Saturation ' Geomorphi Shallow Aq FAC-Neutra	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3) al Test (D5)	s (B9) (MLRA 1, 10) able (C2) Aerial Imagery (C (D2) )
Primary Inc Surface High W Saturat Water Sedime Drift De Algal M Surface	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6)		Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted	tained Lo MLRA 1 st (B11) Invertebra n Sulfide I Rhizospe of Red ron Red or Stress	eaves (B9), 2, 4A, an rates (B13) e Odor (C1 oheres on luced Iron ouction in Tised Plants	d 4B)  ) Living Ro (C4) illed Soils (D1) (LR	ots (C3) X  (C6)  R A)	Water-Stain  2, 4A, and  Drainage P  Dry-Seasor  Saturation  Geomorphi  Shallow Aq  FAC-Neutra  Raised Ant	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (l	s (B9) (MLRA 1, 10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A)
Primary Inc Surface High W Satural Water Sedime Drift De Algal M Iron De Surface Inunda	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria	ıl Imagery (	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted B7) Other (E	tained Lo MLRA 1 st (B11) Invertebra n Sulfide I Rhizospe of Red ron Red or Stress	eaves (B9)  , 2, 4A, an  rates (B13)  e Odor (C1  oheres on I  uced Iron oution in Ti	d 4B)  ) Living Ro (C4) illed Soils (D1) (LR	ots (C3) X  (C6)  R A)	Water-Stain 2, 4A, and Drainage P Dry-Seasor Saturation ' Geomorphi Shallow Aq FAC-Neutra	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (l	s (B9) (MLRA 1, 10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A)
Primary Inc Surface High W Saturat Water Sedime Drift De Algal M Iron De Surface Inunda Sparse	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria	ıl Imagery (	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted B7) Other (E	tained Lo MLRA 1 st (B11) Invertebra n Sulfide I Rhizospe of Red ron Red or Stress	eaves (B9), 2, 4A, an rates (B13) e Odor (C1 oheres on luced Iron ouction in Tised Plants	d 4B)  ) Living Ro (C4) illed Soils (D1) (LR	ots (C3) X  (C6)  R A)	Water-Stain  2, 4A, and  Drainage P  Dry-Seasor  Saturation  Geomorphi  Shallow Aq  FAC-Neutra  Raised Ant	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (l	s (B9) (MLRA 1, 10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A)
Primary Inc Surface High W Satural Water Sedime Drift De Algal M Iron De Surface Inunda Sparse	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca	l Imagery ( ve Surface	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted Other (E	tained Le MLRA 1 st (B11) Invertebre n Sulfide I Rhizospe of Red ron Red or Stress explain in	eaves (B9), 2, 4A, an rates (B13) e Odor (C1 oheres on luced Iron (uction in Tised Plants Remarks)	od 4B)  ) Living Ro (C4) illed Soils (D1) (LR	ots (C3) X  (C6)  R A)	Water-Stair 2, 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost Heav	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (la e Hummod	s (B9) (MLRA 1, 10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A) cks (D7)
Primary Inc Surface High W Satural Water Sedime Drift De Algal M Iron De Surface Inunda Sparse  Field Obse Surface Wa	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca	I Imagery ( ve Surface Yes	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted B7) Other (E	tained Lo MLRA 1 st (B11) Invertebre n Sulfide I Rhizospe of Red ron Red or Stress explain in	eaves (B9) , 2, 4A, an rates (B13) e Odor (C1 oheres on l uced Iron ( uction in Ti sed Plants Remarks)  Depth (ir	d 4B)  ) Living Ro (C4) illed Soils (D1) (LR	ots (C3) X  (C6)  R A)	Water-Stair 2, 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost Heav	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (la e Hummod	s (B9) (MLRA 1, 10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A)
Primary Inc Surface High W Satural Water Sedime Drift De Algal M Iron De Surface Inunda Sparse	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) At or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca ervations: ater Present? le Present?	l Imagery ( ve Surface	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted Other (E	tained Le MLRA 1 st (B11) Invertebre n Sulfide I Rhizospe of Red ron Red or Stress explain in	eaves (B9), 2, 4A, an rates (B13) e Odor (C1 oheres on luced Iron (uction in Tised Plants Remarks)	d 4B)  (c)  Living Ro (C4)  illed Soils (D1) (LR	ots (C3) X  (C6)  R A)	Water-Stair 2, 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost Heav	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (la e Hummod	s (B9) (MLRA 1,  10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A) cks (D7)
Primary Inc Surface High W Saturat Water Sedime Drift De Algal M Iron De Surface Inunda Sparse Field Obse Surface Water Tabl Saturation	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) At or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca ervations: ater Present? le Present?	I Imagery ( ve Surface Yes Yes	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted B7) Other (E	tained Le MLRA 1 st (B11) Invertebre n Sulfide I Rhizospe of Red ron Red or Stress explain in	eaves (B9) , 2, 4A, an rates (B13) e Odor (C1 oheres on l uced Iron ( uction in Ti sed Plants Remarks)  Depth (ir Depth (ir	d 4B)  (c)  Living Ro (C4)  illed Soils (D1) (LR	ots (C3) X  (C6)  R A)	Water-Stair 2, 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost Heav	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (le e Hummod	s (B9) (MLRA 1, 10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A) cks (D7)
Primary Inc Surface High W Saturat Water Sedime Drift De Algal W Iron De Surface Inunda Sparse Field Obse Surface Water Tabl Saturation (includes ca	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca ervations: ater Present? Present?	I Imagery ( ve Surface Yes Yes Yes	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted (B8) No No	tained Lo MLRA 1 st (B11) Invertebren Sulfide I Rhizospe of Red ron Red or Stress Explain in	eaves (B9) , 2, 4A, an rates (B13) e Odor (C1 oheres on l uced Iron ( uction in Ti sed Plants Remarks)  Depth (ir Depth (ir	d 4B)  (c)  Living Ro (C4)  illed Soils (D1) (LR  nches): nches):	ots (C3) X  (C6)	Water-Stair 2, 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost Heav  Wetland	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (le e Hummod	s (B9) (MLRA 1,  10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A) cks (D7)
Primary Inc Surface High W Saturat Water Sedime Drift De Algal M Iron De Surface Inunda Sparse Field Obse Surface Water Tabl Saturation (includes ci	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca ervations: ater Present? Present? papillary fringe)	I Imagery ( ve Surface Yes Yes Yes	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted (B8) No No	tained Lo MLRA 1 st (B11) Invertebren Sulfide I Rhizospe of Red ron Red or Stress Explain in	eaves (B9) , 2, 4A, an rates (B13) e Odor (C1 oheres on l uced Iron ( uction in Ti sed Plants Remarks)  Depth (ir Depth (ir	d 4B)  (c)  Living Ro (C4)  illed Soils (D1) (LR  nches): nches):	ots (C3) X  (C6)	Water-Stair 2, 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost Heav  Wetland	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (le e Hummod	s (B9) (MLRA 1,  10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A) cks (D7)
Primary Inc Surface High W Saturat Water Sedime Drift De Algal M Iron De Surface Inunda Sparse Field Obse Surface Water Tabl Saturation (includes co	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca ervations: ater Present? Present? papillary fringe)	I Imagery ( ve Surface Yes Yes Yes	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted (B8) No No	tained Lo MLRA 1 st (B11) Invertebren Sulfide I Rhizospe of Red ron Red or Stress Explain in	eaves (B9) , 2, 4A, an rates (B13) e Odor (C1 oheres on l uced Iron ( uction in Ti sed Plants Remarks)  Depth (ir Depth (ir	d 4B)  (c)  Living Ro (C4)  illed Soils (D1) (LR  nches): nches):	ots (C3) X  (C6)	Water-Stair 2, 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost Heav  Wetland	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (le e Hummod	s (B9) (MLRA 1,  10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A) cks (D7)
Primary Inc Surface High W Saturat Water Sedime Drift De Algal W Iron De Surface Inunda Sparse Field Obse Surface Water Tabl Saturation (includes ca	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca ervations: ater Present? Present? papillary fringe)	I Imagery ( ve Surface Yes Yes Yes	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted (B8) No No	tained Lo MLRA 1 st (B11) Invertebren Sulfide I Rhizospe of Red ron Red or Stress Explain in	eaves (B9) , 2, 4A, an rates (B13) e Odor (C1 oheres on l uced Iron ( uction in Ti sed Plants Remarks)  Depth (ir Depth (ir	d 4B)  (c)  Living Ro (C4)  illed Soils (D1) (LR  nches): nches):	ots (C3) X  (C6)	Water-Stair 2, 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost Heav  Wetland	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (I e Hummod	s (B9) (MLRA 1,  10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A) cks (D7)
Primary Inc Surface High W Saturat Water Sedime Drift De Algal M Iron De Surface Inunda Sparse Field Obse Surface Wa Water Tabl Saturation (includes ca	drology Indicators dicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca ervations: ater Present? Present? papillary fringe)	I Imagery ( ve Surface Yes Yes Yes	Water-S (except Salt Crue Aquatic Hydroge Oxidized Presenc Recent I Stunted (B8) No No	tained Lo MLRA 1 st (B11) Invertebren Sulfide I Rhizospe of Red ron Red or Stress Explain in	eaves (B9) , 2, 4A, an rates (B13) e Odor (C1 oheres on l uced Iron ( uction in Ti sed Plants Remarks)  Depth (ir Depth (ir	d 4B)  (c)  Living Ro (C4)  illed Soils (D1) (LR  nches): nches):	ots (C3) X  (C6)	Water-Stair 2, 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost Heav  Wetland	ned Leave 4B) atterns (B n Water Ta Visible on c Position uitard (D3 al Test (D5 Mounds (I e Hummod	s (B9) (MLRA 1,  10) able (C2) Aerial Imagery (C (D2) ) 5) D6) (LRR A) cks (D7)

### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Applicant/Owner: King County Housing Authority  Investigator(s): JMM, KN  Section, Township, Range: NE ½ of Section 29, Township 24 North, Range 6 E Landform (hillslope, terrace, etc.): Terrace  Local relief (concave, convex, none): Slope (%):  Subregion (LRR): LRR A - Northwest Forests and Coast  Lat: 47.542015  Long: -122.060972  Datum: WGS8  Are climatic/hydrologic conditions of the site typical for this time of the year?  Yes X  No  (If no, explain in remarks)	ast
Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Slope (%): Subregion (LRR): LRR A - Northwest Forests and Coast Lat: 47.542015 Long: -122.060972 Datum: WGS8 Soil Map Unit Name: Sammamish silt loam NWI Classification: None	ast
Subregion (LRR): LRR A - Northwest Forests and Coast Lat: 47.542015 Long: -122.060972 Datum: WGS8 Soil Map Unit Name: Sammamish silt loam NWI Classification: None	
Soil Map Unit Name: Sammamish silt loam NWI Classification: None	
	4
Are vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances"	
Are vegetation , Soil , or Hydrology naturally problematic? present? (If needed, explain any answers in remarks) Yes X No	
SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.	•
Hydrophytic vegetation present?  Yes X No	
Hydric soil present? Yes Y No Is the sampled area	
Indicators of wetland hydrology present?  Yes X No  within a wetland?  Yes X No	
Remarks: Wetland A plots (TP 2 and TP 3) paired with upland plot 4.	-
Remarks. Wettand A plots (TF 2 and TF 3) paired with upland plot 4.	
VEGETATION Use scientific names of plants.	
Absolute Dominant Indicator Dominance Test Worksheet	
Tree Stratum (Plot size: 30' r ) % Cover Species Status Number of Dominant Species that	
1 are OBL, FACW, or FAC: 1(A)	
2 Total Number of Dominant Species 3 Across all Strata: 1 (B)	
4. Percent of Dominant Species that	
0 = Total Cover are OBL, FACW, or FAC: 100% (A/	B)
Sapling/Shrub Stratum (Plot size: 30' r )	•
1. Prevalence Index Worksheet	
2. <u>Total % Cover of: Multiply by:</u>	
3. OBL species 0 x 1 = 0	
4. FACW species 0 x 2 = 0	
5. FAC species 100 x 3 = 300	
1. Ranunculus repens 90 Y FAC Column totals 100 (A) 300 (B)	
2. Equisetum arvense 10 N FAC Prevalence Index = B/A = 3.00	
3.	
4. Hydrophytic Vegetation Indicators:	
5. 1 - Rapid Test for Hydrophytic Vegetation	n
6. X 2 - Dominance Test is >50%	
7 3 - Prevalence Index is ≤3.0	
8. 4 - Morphological Adaptations* (Provide supporti	ng
9	
10 5 - Wetland Non-Vascular Plants <sup>1</sup>	
11. Problematic Hydrophytic Vegetation (Explain)	
Wash Vine Chahum (District Office)	
1. Plot Size: 30 f )  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	E
2. Hydrophytic	
0 = Total Cover vegetation	
% Bare Ground in Herb Stratum 0 present? Yes X No	
Remarks:	

SOIL Sampling Point: 3

Depth	Matrix	o to the ue		dox Feat		Jator Or C		absence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-12	10YR 3/1	95	7.5YR 4/6	5	C	PL/M	SL		
12-14+	10YR 4/2	85	10YR 3/6	15	C	M	SL		
-									
1	· <del></del>						. 2		
	oncentration, D=Depl					ed Sand G		ocation: PL=Pore Lining, M=Nators for Problematic Hyd	
Histoso	I Indicators: (Appli	cable to all	Sandy R					2 cm Muck (A10)	aric Solis :
	Epipedon (A2)		Stripped	•	•			Red Parent Material (TF2)	
	Histic (A3)			•	neral (F1)	(Except N		Very Shallow Dark Surface (	(TF12)
	gen Sulfide (A4)				atrix (F2)	(Except ii		Other (Explain in Remarks	( · · · – )
`	ed Below Dark Surfa	ice (A11	Depleted	-				<b>\</b>	
	Dark Surface (A12)	•	X Redox D				<sup>3</sup> Inc	dicators of hydrophytic veget	tation and
Sandy	Mucky Mineral (S1)		Depleted	Dark S	urface (F7)			and hydrology must be pres	
Sandy	Gleyed Matrix (S4)		Redox D	epressio	ns (F8)			disturbed or problemati	ic
Restrictive	Layer (if present):								
Type:									
Depth (inch	nes):					Hydric	Soil Preser	nt? Yes X N	o
Remarks:	· · · · · · · · · · · · · · · · · · ·							-	
HYDROLO	OGY								
	drology Indicators								
•	dicators (minimum of	nne is reau	ired: check all th	at annly			Seco	ondary Indicators (2 or more	required)
-	e Water (A1)	one is requ			eaves (B9)			Water-Stained Leaves (B9)	
	/ater Table (A2)				, <b>2, 4A, an</b>			2, 4A, and 4B)	(IVILNA I,
	tion (A3)		Salt Crus		, _, ., .,	u . <b>_</b> ,		Orainage Patterns (B10)	
	Marks (B1)				ates (B13)			Ory-Season Water Table (C	2)
	ent Deposits (B2)				Odor (C1)			Saturation Visible on Aerial I	Imagery (C
	eposits (B3)					Ū	` ′——	Geomorphic Position (D2)	
	Mat or Crust (B4)				uced Iron (	,		Shallow Aquitard (D3)	
	eposits (B5) e Soil Cracks (B6)				uction in Ti sed Plants		` '	FAC-Neutral Test (D5) Raised Ant Mounds (D6) ( <b>LF</b>	RR A)
	tion Visible on Aeria	l Imagery (B			Remarks)	(DI) (LIKI		Frost Heave Hummocks (D7	
	ly Vegetated Conca				,			(	,
Field Obse	arvations:								
	ater Present?	Yes	No	Χ	Depth (in	ches):		Wetland Hydrology Prese	ent?
Water Tabl		Yes	No	X	Depth (in	_		Tronana riyarology r root	
Saturation	Present?	Yes	No	Х	Depth (in	ches):		Yes X No _	
(includes c	apillary fringe)					_	_		
Describe R	ecorded Data (strea	m gauge, m	onitoring well, a	erial pho	tos, previo	us inspect	tions), if ava	ilable	
Damerica									
Remarks:									
Soils moist	•								

### WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Trailhead Apartments	City	/County: Issaqı	uah/King	Sampling Date: 8/13/2024
Applicant/Owner: King County Housing Authority		State: WA		Sampling Point: 4
Investigator(s): JMM, KN	Section	n, Township, Ra	ange: NE	1/4 of Section 29, Township 24 North, Range 6 East
Landform (hillslope, terrace, etc.): Terrace	_ L	ocal relief (cond	cave, conve	x, none): Slope (%):
Subregion (LRR): LRR A - Northwest Forests and Co	ast	Lat: 4	7.541593	Long: -122.060978 Datum: WGS84
Soil Map Unit Name: Sammamish silt loam			NW	I Classification: None
Are climatic/hydrologic conditions of the site typical for	this time of	the year?	Yes X	No (If no, explain in remarks)
Are vegetation , Soil , or Hydrology		significantly	disturbed?	Are "Normal Circumstances"
Are vegetation , Soil , or Hydrology		naturally pro		present? (If needed, explain any answers in remarks)  Yes X No
SUMMARY OF FINDINGS - Attach site map sh	nowing sa			any answers in remarks)
Hydrophytic vegetation present? Yes	<u> </u>	No X	1	
Hydric soil present? Yes		No X		ampled area
Indicators of wetland hydrology present? Yes		No X	within a	a wetland? Yes No X
				103 NO _X
Remarks: Upland plot 4 paired with Wetland A plots (	IP Z and I	P 3).		
<b>VEGETATION</b> Use scientific names of plant	S.			
	Absolute	Dominant	Indicator	Dominance Test Worksheet
<u>Tree Stratum</u> (Plot size: <u>30' r</u> )	% Cover	Species	Status	Number of Dominant Species that
Quercus rubra	50	Y	FACU	are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant Species
3				Across all Strata: 4 (B)
4	50	= Total Cover		Percent of Dominant Species that
Sapling/Shrub Stratum (Plot size: 30' r )	50	= Total Cover		are OBL, FACW, or FAC: 50% (A/B)
1. Quercus rubra	70	Υ	FACU	Prevalence Index Worksheet
2.		<del>'</del>	17.00	Total % Cover of: Multiply by:
3.		-		OBL species 0 x 1 = 0
4.				FACW species 0 x 2 = 0
5.		•		FAC species 35 x 3 = 105
	70	= Total Cover		FACU species 120 x 4 = 480
Herb Stratum (Plot size: 5' r )				UPL species 0 x 5 = 0
1. Ranunculus repens	10	Y	FAC	Column totals 155 (A) 585 (B)
2.				Prevalence Index = B/A = 3.77
3				
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7				3 - Prevalence Index is ≤3.0
8. 9.		-		4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)
10.				·
11.				5 - Wetland Non-Vascular Plants  Problematic Hydrophytic Vegetation
···	10	= Total Cover		(Explain)
Woody Vine Stratum (Plot size: 30' r )		_ 10ta 00101		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
1. Rubus armeniacus	25	Υ	FAC	present, unless disturbed or problematic
2.		-		Hydrophytic
	25	= Total Cover		vegetation
% Bare Ground in Herb Stratum 90				present? Yes No X
Remarks:				

SOIL Sampling Point: 4

Depth	Matrix			dox Feat		2	<b>-</b> .	
(Inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 3/2	100					L	Friable
8-9	10YR 3/2	99	10YR 4/6	1	C	M	L	
								1
				'				
				-				
<sup>1</sup> Type: C=C	oncentration, D=Depl	etion, RM=Re	educed Matrix, C	S=Cover	ed or Coate	ed Sand G	rains. <sup>2</sup> L	Location: PL=Pore Lining, M=Matrix.
	I Indicators: (Appli							cators for Problematic Hydric Soils3:
Histoso	ol (A1)		Sandy R	edox (S	5)			2 cm Muck (A10)
Histic E	pipedon (A2)		Stripped	Matrix (	S6)			Red Parent Material (TF2)
	listic (A3)				neral (F1)	(Except N		Very Shallow Dark Surface (TF12)
	en Sulfide (A4)			•	atrix (F2)			Other (Explain in Remarks
	ed Below Dark Surfa	ice (A11		d Matrix (	. ,		2.	
	Dark Surface (A12)			ark Surf	, ,			dicators of hydrophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)			o Dark S Depressio	urface (F7)		wetl	and hydrology must be present, unless disturbed or problematic
<u> </u>	, ,		Redox L	epressic	nis (Fo)			disturbed of problematic
	Layer (if present):							
71 -	Hardpan					l le caluda	Call Dans	nt? Yes No X
Depth (inch	es):		9			Hyaric	Soil Prese	nt? Yes No X
Remarks:								
Depth with	redox insufficient to	meet an indi-	cator					
HYDROLC								
Wetland Hyd	drology Indicators							
Primary Ind	licators (minimum of	one is requi	red; check all t	nat apply			Sec	ondary Indicators (2 or more required)
Surface	e Water (A1)		Water-S	tained Le	eaves (B9)		,	Water-Stained Leaves (B9) (MLRA 1,
	ater Table (A2)				, 2, 4A, an	d 4B)		2, 4A, and 4B)
	ion (A3)		Salt Cru	, ,				Drainage Patterns (B10)
	Marks (B1)				ates (B13)			Dry-Season Water Table (C2)
	ent Deposits (B2)				Odor (C1) oheres on L			Saturation Visible on Aerial Imagery (C
	eposits (B3) lat or Crust (B4)				uced Iron (			Geomorphic Position (D2) Shallow Aquitard (D3)
~	posits (B5)				uction in Ti			FAC-Neutral Test (D5)
	Soil Cracks (B6)				sed Plants		` ′ —	Raised Ant Mounds (D6) (LRR A)
	tion Visible on Aeria	I Imagery (B7			Remarks)	. , .	· —	Frost Heave Hummocks (D7)
Sparse	ly Vegetated Conca	ve Surface (F	38					
Field Obse	rvations							
0.000		Yes	No	X	Depth (in	iches):		Wetland Hydrology Present?
Surface Wa		Yes	No	X	Depth (in	_		
Surface Wa Water Table	e Present?	. 00		Х	Depth (in	_		v
		Yes	No		Doptii (iii	iches).		Yes No X
Water Table Saturation I			No	^	Doptii (iii	icries).		Yes No <u>X</u>
Water Table Saturation I (includes ca	Present?	Yes				· -	tions), if ava	
Water Table Saturation I (includes ca	Present? apillary fringe)	Yes				· -	tions), if ava	
Water Table Saturation I (includes ca Describe R	Present? apillary fringe)	Yes				· -	tions), if ava	
Water Table Saturation I (includes ca	Present? apillary fringe)	Yes				· -	tions), if ava	
Water Table Saturation I (includes ca Describe R	Present? apillary fringe)	Yes				· -	tions), if ava	
Water Table Saturation I (includes ca Describe R	Present? apillary fringe)	Yes				· -	tions), if ava	



# APPENDIX I

Wetland Rating Form

# **RATING SUMMARY – Western Washington**

Name of wetland (or	ID #):	Wetland A				Date of site visit:	8/13/2024
Rated by JMM/KN			Tr	ained by E	cology? ☑Yes ☐No	Date of training	Oct-22
HGM Class used for	r rating	Slope			Wetland has multip	le HGM classes? ☐	Yes ☑ No
		•		•	equested (figures ca	n be combined).	
	Source	of base aer	rial photo/map	King Cour	ty Aerial 2023		
OVERALL WETLA	ND CA	TEGORY	IV	(based on	functions ☑ or speci	al characteristics	)
1. Category of v	vetland	based on	FUNCTION	IS	_		
<u>-</u>		Category	I - Total score	= 23 - 27		Score for each	
<u>.</u>		Category	II - Total score	e = 20 - 22		function based	
-		Category I	III - Total scor	e = 16 - 19		on three	
<u>.</u>	X	Category	IV - Total sco	re = 9 - 15		ratings	
						(order of ratings	
FUNCTION	Imp	roving	Hydrologic	Habitat		is not	

1

FUNCTION	Improving Water Quality	Hydrologic	Habitat	
	List app	ropriate rating	(H, M, L)	
Site Potential	L	L	L	
Landscape Potential	М	M	L	
Value	Н	M	L	Total
Score Based on Ratings	6	5	3	14

Score for each function based on three ratings (order of ratings is not important)

9 = H, H, H
8 = H, H, M
7 = H, H, L
7 = H, M, M
6 = H, M, L
6 = M, M, M
5 = H, L, L
5 = M, M, L
4 = M, L, L
3 = L, L, L

#### 2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	Category
Estuarine	
Wetland of High Conservation Value	
Bog	
Mature Forest	
Old Growth Forest	
Coastal Lagoon	
Interdunal	
None of the above	Х

# Maps and Figures required to answer questions correctly for Western Washington

#### **Depressional Wetlands**

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	
Hydroperiods	D 1.4, H 1.2	
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	
Map of the contributing basin	D 4.3, D 5.3	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	

#### Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream ( can be added to another figure )	R 4.1	
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	

#### Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

#### Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Plant cover of <b>dense</b> trees, shrubs, and herbaceous plants	S 1.3	
Plant cover of dense, rigid trees, shrubs, and herbaceous plants	S 4.1	
(can be added to another figure )		
Boundary of area within 150 ft of the wetland (can be added to another figure)	S 2.1, S 5.1	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	S 3.3	

### **HGM Classification of Wetland in Western Washington**

For questions 1 -7, the criteria described must apply to the entire unit being rated. If hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1 - 7 apply, and go to Question 8.

1. Are the water levels in the entire	unit usually controlled by tides except during floods?
☐ NO - go to 2	☐ <b>YES</b> - the wetland class is <b>Tidal Fringe</b> - go to 1.1
1.1 Is the salinity of the water	during periods of annual low flow below 0.5 ppt (parts per thousand)?
	ssified as a Freshwater Tidal Fringe use the forms for <b>Riverine</b> wetlands. The it is an <b>Estuarine</b> wetland and is not scored. This method <b>cannot</b> be
	precipitation is the only source (>90%) of water to it. off are NOT sources of water to the unit.
☐ NO - go to 3  If your wetland can be cla	$\square$ <b>YES</b> - The wetland class is <b>Flats</b> ssified as a Flats wetland, use the form for <b>Depressional</b> wetlands.
plants on the surface at a	t all of the following criteria? wetland is on the shores of a body of permanent open water (without any time of the year) at least 20 ac (8 ha) in size; water area is deeper than 6.6 ft (2 m).
□ NO - go to 4	☐ <b>YES</b> - The wetland class is <b>Lake Fringe</b> (Lacustrine Fringe)
It may flow subsurface, as	
☐ NO - go to 5	☑ <b>YES</b> - The wetland class is <b>Slope</b>
	d in these type of wetlands except occasionally in very small and shallow depressions are usually <3 ft diameter and less than 1 ft deep).
from that stream or river,	t all of the following criteria? tream channel, where it gets inundated by overbank flooding curs at least once every 2 years.
☐ NO - go to 6	☐ <b>YES</b> - The wetland class is <b>Riverine</b>
NOTE: The Riverine unit can conta	n depressions that are filled with water when the river is not flooding.

Wetland name or number A	4
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	ic depression in which water ponds, or is saturated to the surface, sthat any outlet, if present, is higher than the interior of the wetland.
□ NO - go to 7	$\square$ <b>YES</b> - The wetland class is <b>Depressional</b>
The unit does not pond surface water mor	ery flat area with no obvious depression and no overbank flooding? the than a few inches. The unit seems to be maintained by high be ditched, but has no obvious natural outlet.
☐ NO - go to 8	$\square$ <b>YES</b> - The wetland class is <b>Depressional</b>

8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

**NOTE**: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

HGM classes within the wetland unit	HGM class to
being rated	use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine along stream	Depressional
within boundary of depression	
Depressional + Lake Fringe	Depressional
Riverine + Lake Fringe	Riverine
Salt Water Tidal Fringe and any other	Treat as
class of freshwater wetland	ESTUARINE

If you are still unable to determine which of the above criteria apply to your wetland, or if you have **more than 2 HGM classes** within a wetland boundary, classify the wetland as Depressional for the rating.

SLOPE WETLANDS			
Water Quality Functions - Indicators that the site functions to in	nprove wate	r quality	
S 1.0. Does the site have the potential to improve water quality?			
S 1.1. Characteristics of the average slope of the wetland: (a 1% slope has a	1 ft vertical of	drop in	
elevation for every 100 ft of horizontal distance)			
Slope is 1% or less	po	ints = 3	2
Slope is > 1% - 2%	po	ints = 2	2
Slope is > 2% - 5%	ро	ints = 1	
Slope is greater than 5%	ро	ints = 0	
S 1.2. The soil 2 in below the surface (or duff layer) is true clay or true			0
organic (use NRCS definitions):	Yes = 3	No = 0	U
S 1.3. Characteristics of the plants in the wetland that trap sediments and poll			
Choose the points appropriate for the description that best fits the plants in the			
means you have trouble seeing the soil surface (>75% cover), and uncut mea	ans not graze	ed or	
mowed and plants are higher than 6 in.			
Dense, uncut, herbaceous plants > 90% of the wetland area	· · · · · · · · · · · · · · · · · · ·	ints = 6	2
Dense, uncut, herbaceous plants > ½ of area	· · · · · · · · · · · · · · · · · · ·	ints = 3	
Dense, woody, plants > ½ of area	•	ints = 2	
Dense, uncut, herbaceous plants > 1/4 of area	•	ints = 1	
Does not meet any of the criteria above for plants	•	ints = 0	
Total for S 1 Add the points			4
Rating of Site Potential If score is: 12 = H 6 - 11 = M 0 0 - 5 = L	Record the I	rating on	the first page
S 2.0. Does the landscape have the potential to support the water quality fund	tion of the s	ite?	
S 2.1. Is > 10% of the area within 150 ft on the uphill side of the wetland in			1
land uses that generate pollutants?	Yes = 1	No = 0	1
S 2.2. Are there other sources of pollutants coming into the wetland that are			
not listed in question S 2.1?			1
Other Sources	Yes = 1	No = 0	
Total for S 2 Add the points	in the boxes	s above	2
Rating of Landscape Potential If score is:  1 - 2 = M 0 = L	Record the I	rating on	the first page
S 3.0. Is the water quality improvement provided by the site valuable to societ	y?		
S 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river,			1
lake, or marine water that is on the 303(d) list?	Yes = 1	No = 0	1
S 3.2. Is the wetland in a basin or sub-basin where water quality is an issue?			1
At least one aquatic resource in the basin is on the 303(d) list.	Yes = 1	No = 0	1
S 3.3. Has the site been identified in a watershed or local plan as important			
for maintaining water quality? Answer YES if there is a TMDL for the basin in			2
which the unit is found?	V 0	No = 0	
	Yes = 2	110 - 0	
Total for S 3 Add the points			4

SLOPE WETLANDS		
Hydrologic Functions - Indicators that the site functions to reduce flo	oding and stream er	osion
S 4.0. Does the site have the potential to reduce flooding and stream erosion?	?	
the points appropriate for the description that best fits conditions in the wetlan		
should be thick enough (usually > $^{1}/_{8}$ in), or dense enough, to remain erect of	luring surface	0
flows		U
Dense, uncut, <b>rigid</b> plants cover > 90% of the area of the wetland	points = 1	
All other conditions	points = 0	
Rating of Site Potential If score is: ☐ 1 = M ☑ 0 = L	Record the rating on	the first page
S 5.0. Does the landscape have the potential to support hydrologic functions of	of the site?	
S 5.1. Is more than 25% of the area within 150 ft upslope of wetland in land		4
uses or cover that generate excess surface runoff?	Yes = 1 No = 0	ı
Rating of Landscape Potential If score is:  1 = M 0 = L	Record the rating on	the first page
	_	
S 6.0. Are the hydrologic functions provided by the site valuable to society?		
S 6.1. Distance to the nearest areas downstream that have flooding problems	:	
The sub-basin immediately down-gradient of site has flooding		
problems that result in damage to human or natural resources (e.g.,		
houses or salmon redds)	points = 2	1
Surface flooding problems are in a sub-basin farther down-gradient	points = 1	
	•	
No flooding problems anywhere downstream	points = 0	
S 6.2. Has the site been identified as important for flood storage or flood		0
conveyance in a regional flood control plan?	Yes = 2 No = 0	
Total for S 6 Add the points	in the boxes above	1
Rating of Value If score is:  2-4=H  1=M  1=M  1=I	Record the rating on	the first nage

NOTES and FIELD OBSERVATIONS:

#### These questions apply to wetlands of all HGM classes. HABITAT FUNCTIONS - Indicators that site functions to provide important habitat H 1.0. Does the site have the potential to provide habitat? H 1.1. Structure of plant community: Indicators are Cowardin classes and strata within the Forested class. Check the Cowardin plant classes in the wetland. Up to 10 patches may be combined for each class to meet the threshold of 1/4 ac or more than 10% of the unit if it is smaller than 2.5 ac. Add the number of structures checked. ☐ Aquatic bed 4 structures or more: points = 4 ☐ Emergent 3 structures: points = 2 ☐ Scrub-shrub (areas where shrubs have > 30% cover) 2 structures: points - 1 ✓ Forested (areas where trees have > 30% cover) 1 structure: points = 0 If the unit has a Forested class, check if: ☑ The Forested class has 3 out of 5 strata (canopy, sub-canopy, shrubs, herbaceous, moss/ground-cover) that each cover 20% within the Forested polygon H 1.2. Hydroperiods Check the types of water regimes (hydroperiods) present within the wetland. The water regime has to cover more than 10% of the wetland or 1/4 ac to count (see text for descriptions of hydroperiods). ☐ Permanently flooded or inundated 4 or more types present: points = 3 ☐ Seasonally flooded or inundated 3 types present: points = 2 0 ☐ Occasionally flooded or inundated 2 types present: points = 1 Saturated only 1 types present: points = 0 ☐ Permanently flowing stream or river in, or adjacent to, the wetland ☐ Seasonally flowing stream in, or adjacent to, the wetland ■ Lake Fringe wetland 2 points ☐ Freshwater tidal wetland 2 points H 1.3. Richness of plant species Count the number of plant species in the wetland that cover at least 10 ft2. Different patches of the same species can be combined to meet the size threshold and you do not have to name the species. Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canadian thistle 1 If you counted: > 19 species points = 25 - 19 species points = 1 < 5 species points = 0H 1.4. Interspersion of habitats Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high. 1 None = 0 points Low = 1 pointModerate = 2 points All three diagrams in this row are **HIGH** = 3 points

H.1.5. Special habitat features: Check the habitat features that are present in the wetland. The number of checks is the number of points.    Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long)   Standing snags (dbh > 4 in) within the wetland (> 4 in diameter and 6 ft long)   Standing snags (dbh > 4 in) within the wetland (  1 in) and/or overhanging plants extends at least 3.3 ft (10 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 ft (10 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 ft (10 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 ft (10 m)     Stables steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered where wood is exposed)     At least ½ as of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by   Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 for list of strate)     Total for H 1	Wetland name or number A	
Check the habitat features that are present in the wetland. The number of checks is the number of points.  Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long)  I Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long)  I Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends at least 3.3 ft (1 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 ft (1 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 ft (10 m)  Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered where wood is exposed)  At least 1/2 ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 for list of strata)  Total for H 1  Add the points in the boxes above 4  Rating of Site Potential if Score is:	H 1.5. Special habitat features:	
Large, downed, woody debris within the wetland   Stating snage (6th > 4 in) within the wetland     Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends at least 3.3 ft (1 m) over a stream (or ditch) in, or configuous with the wetland, for at least 3.3 ft (1 m) over a stream (or ditch) in, or configuous with the wetland, for at least 3.3 ft (1 m) over a stream (or ditch) in, or configuous with the wetland, for at least 3.3 ft (1 m) over a stream (or ditch) in, or configuous with the wetland, for at least 3.3 ft (1 m) over a stream (or ditch) in, or configuous with the wetland, for at least 3.3 ft (1 m) over a stream (or ditch) in, or configuous with the wetland, for at least 3.3 ft (1 m) over a stream (or ditch) in, or configuous with the wetland, for at least 3.3 ft (1 m) over a stream (or ditch) in, or configuous with the wetland, for at least 4 sac of thin-stemmed persistent plants or woody branches are present (or denning \cdot 3 branches or trees that have not yet weathered where wood is exposed)    At least 1/2 or 2 or 2 or 2 or 3 or 3 or 4 or 4 or 4 or 4 or 4 or 4		
Standing snags (dbh > 4 in) within the wetland   Undercut banks are present for at least 6.8 if (2 m) and/or overhanging plants extends at least 3.3 if (1 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 if (10 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 if (10 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 if (10 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 if (10 m) over 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered where wood is exposed)   At least ½ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by Univasive plants cover less than 25% of the wetland area in every stratum of plants (see H1.1 for list of strata)   Add the points in the boxes above 4   Rating of Site Potential If Score is:	of points.	
Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends at least 3.3 ft (10 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 33 ft (10 m)     Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered where wood is exposed)     All cleast 1/2 as of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by     Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H1.1 for list of strata)     Total for H 1	☐ Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long)	
at least 3.3 ft (1 m) over a stream (or ditch) in, or contiguous with the wetland, for at least 3.3 ft (10 m)    Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered where wood is exposed)    At least ½ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by    Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 for list of strata)    Total for H 1	☐ Standing snags (dbh > 4 in) within the wetland	
least 33 ft (10 m)   Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present ( <i>cut shrubs or trees that have not yet weathered where wood is exposed</i> )   At least ¼ ac of thin-stermmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated ( <i>structures for egg-laying by</i>   Invasive plants cover less than 25% of the wetland area in every stratum of plants (see <i>H 1.1 for list of strata</i> )   Add the points in the boxes above   4   Rating of Site Potential If Score is:   15 - 18 = H   7 - 14 = M   0 - 6 = L   Record the rating on the first page   H 2.0. Does the landscape have the potential to support the habitat function of the site?   H 2.1 Accessible habitat (include <i>only habitat that directly abuts wetland unit</i> ).   Calculate:   % undisturbed habitat + (	☐ Undercut banks are present for at least 6.6 ft (2 m) <b>and/or</b> overhanging plants extends	
Stable steep banks of fine material that might be used by beaver or muskrat for denning (> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet weathered where wood is exposed)   Al least ½ ac of thin-stermmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by ] Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H1.1 for list of strata)  Total for H1	at least 3.3 ft (1 m) over a stream (or ditch) in, or contiguous with the wetland, for at	
denning (≥ 30 degree slope) OR signs of recent beaver activity are present ( <i>cut shrubs or trees that have not yet weathered where wood is exposed</i> )  At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated ( <i>structures for egg-laying by Introplate of the wetland area in every stratum of plants</i> (see <i>H 1.1 for list of strata</i> )  Total for H 1  Add the points in the boxes above 4  Rating of Site Potential If Score is: □ 15 - 18 = H □ 7 - 14 = M ② 0 - 6 = L Record the rating on the first page  ### 2.0. Does the landscape have the potential to support the habitat function of the site?  ### 2.1. Accessible habitat (include only habitat that directly abuts wetland unit).  Calculate:  ### 12.1. Accessible habitat + (	least 33 ft (10 m)	1
or trees that have not yet weathered where wood is exposed)  At least ½ as of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by ☐ Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 for list of strata)  Total for H 1		
At least ½ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by  □ Invasive plants cover less than 25% of the wetland area in every stratum of plants (see		
areas that are permanently or seasonally inundated (structures for egg-laying by   Invasive plants cover less than 25% of the wetland area in every stratum of plants (see   H 1.1 for list of strata)   Add the points in the boxes above   4   Rating of Site Potential   If Score is:   15-18=H   7-14=M   0-6=L   Record the rating on the first page   H 2.0. Does the landscape have the potential to support the habitat function of the site?   H 2.1. Accessible habitat (include only habitat that directly abuts wetland unit ).   Calculate:   % undisturbed habitat   (  % moderate & low intensity land uses / 2 ) =		
Invasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 for list of strata)   Total for H 1	· · · · · · · · · · · · · · · · · · ·	
H 1.1 for list of strata )  Total for H 1  Rating of Site Potential If Score is:		
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H 2.0. Does the landscape have the potential to support the habitat function of the site?  H 2.1 Accessible habitat (include only habitat that directly abuts wetland unit).  Calculate:  % undisturbed habitat + (% moderate & low intensity land uses / 2 ) =  If total accessible habitat is:  > ¹/₃ (33.3%) of 1 km Polygon  20 - 33% of 1 km Polygon  points = 2  10 - 19% of 1 km Polygon  + 2.2. Undisturbed habitat in 1 km Polygon around the wetland.  Calculate:  % undisturbed habitat + (% moderate & low intensity land uses / 2 ) =  Undisturbed habitat > 50% of Polygon  Undisturbed habitat > 50% of Polygon  points = 3  Undisturbed habitat > 50% and in 1-3 patches  Undisturbed habitat > 10 - 50% and > 3 patches  Undisturbed habitat > 10 - 50% and > 3 patches  Undisturbed habitat > 10% of 1 km Polygon  points = 0  H 2.3 Land use intensity in 1 km Polygon: If  > 50% of 1 km Polygon is high intensity land use  ≤ 50% of 1 km Polygon is high intensity land use  ≤ 50% of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Solve of 1 km Polygon is high intensity land use  Doints = 0  Rating of Landscape Potential If Socre is: 4 - 6 = H  1 - 3 = M  2 < 1 = LRecord the rating on the first page  H 3.0. Is the habitat provided by the site valuable to society?  H 3.1. Does the site provide habitat for species valued in laws, regulations, or p		
H 2.1 Accessible habitat (include only habitat that directly abuts wetland unit).  Calculate:  % undisturbed habitat + (% moderate & low intensity land uses / 2 ) =  If total accessible habitat is:  > ¹/₃ (33.3%) of 1 km Polygon points = 3 20 - 33% of 1 km Polygon points = 1 10 - 19% of 1 km Polygon points = 1 20 - 30 + 10 + 10 + 10 + 10 + 10 + 10 + 10 +	Rating of Site Potential If Score is: 15 - 18 = H 7 - 14 = M 0 - 6 = L Record the rating of	the first page
H 2.1 Accessible habitat (include only habitat that directly abuts wetland unit).  Calculate:  % undisturbed habitat + (% moderate & low intensity land uses / 2 ) =  If total accessible habitat is:  > ¹/₃ (33.3%) of 1 km Polygon points = 3 20 - 33% of 1 km Polygon points = 1 10 - 19% of 1 km Polygon points = 1 20 - 30 + 10 + 10 + 10 + 10 + 10 + 10 + 10 +	H 2.0. Does the landscape have the notential to support the habitat function of the site?	
Calculate:   % undisturbed habitat	· · · · · · · · · · · · · · · · · · ·	
% undisturbed habitat + (	· · · · · · · · · · · · · · · · · · ·	
If total accessible habitat is:  > 1/3 (33.3%) of 1 km Polygon  20 - 33% of 1 km Polygon  20 - 33% of 1 km Polygon  > 10 - 19% of 1 km Polygon  > 10 - 19% of 1 km Polygon  > 10 - 19% of 1 km Polygon  > 10 - 10 % of 1 km Polygon  > 10 - 10 % of 1 km Polygon    20 - 10 % of 1 km Polygon    3 - 10 % of 1 km Polygon   4 - 2.2 Undisturbed habitat in 1 km Polygon around the wetland.    3 - 2		
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> ¹/₃ (33.3%) of 1 km Polygon 20 - 33% of 1 km Polygon 10 - 19% of 1 km Polygon 21 - 19% of 1 km Polygon 22 - 33% of 1 km Polygon 23 - 33% of 1 km Polygon 24 - 33% of 1 km Polygon 25 - 33% of 1 km Polygon 26 - 33% of 1 km Polygon 27 - 33% of 1 km Polygon 28 - 34 - 34 - 34 - 34 - 34 - 34 - 34 - 3	If total accessible habitat is:	0
20 - 33% of 1 km Polygon 10 - 19% of 1 km Polygon 210 - 19% of 1 km Polygon 22 points = 1 23 points = 0  H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.  Calculate:    Wundisturbed habitat   Windisturbed   Windisturbed habitat   Windisturbed   Windisturbed habitat   Windisturbed   Windis	$> \frac{1}{6}$ (33.3%) of 1 km Polygon points = 3	_
10 - 19% of 1 km Polygon		
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H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.  Calculate:    % undisturbed habitat + (   % moderate & low intensity land uses / 2 ) =		
Calculate:	H 2.2 Undisturbed habitat in 1 km Polygon around the wetland	1
Undisturbed habitat + (		
Undisturbed habitat > 50% of Polygon Undisturbed habitat 10 - 50% and in 1-3 patches Undisturbed habitat 10 - 50% and in 1-3 patches Undisturbed habitat 10 - 50% and > 3 patches Didisturbed habitat < 10% of 1 km Polygon  H 2.3 Land use intensity in 1 km Polygon: If > 50% of 1 km Polygon is high intensity land use ≤ 50% of 1 km Polygon is high intensity  Total for H 2  Rating of Landscape Potential If Score is: □ 4 - 6 = H □ 1 - 3 = M □ <1 = LRecord the rating on the first page  H 3.0. Is the habitat provided by the site valuable to society?  H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose only the highest score that applies to the wetland being rated.  Site meets ANY of the following criteria: □ It has 3 or more priority habitats within 100 m (see next page) □ It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists) □ It is mapped as a location for an individual WDFW priority species □ It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan  Site has 1 or 2 priority habitats (listed on next page) with in 100m  Site has 1 or 2 priority habitats (listed on next page) with in 100m  Site does not meet any of the criteria above		
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Undisturbed habitat 10 - 50% and in 1-3 patches     Undisturbed habitat 10 - 50% and > 3 patches     Undisturbed habitat 10 - 50% and > 3 patches     Undisturbed habitat < 10% of 1 km Polygon H 2.3 Land use intensity in 1 km Polygon: If     > 50% of 1 km Polygon is high intensity land use     ≤ 50% of 1 km Polygon is high intensity     points = 0  Total for H 2  Rating of Landscape Potential If Score is:	Undisturbed habitat > 50% of Polygon noints = 3	2
Undisturbed habitat 10 - 50% and > 3 patches	, ,	
Undisturbed habitat < 10% of 1 km Polygon points = 0  H 2.3 Land use intensity in 1 km Polygon: If		
H 2.3 Land use intensity in 1 km Polygon: If		
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Total for H 2  Rating of Landscape Potential If Score is:		-2
Total for H 2  Rating of Landscape Potential If Score is:		
Rating of Landscape Potential If Score is:  4 - 6 = H  1 - 3 = M  < 1 = LRecord the rating on the first page  H 3.0. Is the habitat provided by the site valuable to society?  H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose only the highest score that applies to the wetland being rated.  Site meets ANY of the following criteria: points = 2  It has 3 or more priority habitats within 100 m (see next page)  It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists)  It is mapped as a location for an individual WDFW priority species  It is a Wetland of High Conservation Value as determined by the Department of Natural Resources  It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan  Site has 1 or 2 priority habitats (listed on next page) with in 100m points = 1 Site does not meet any of the criteria above		
H 3.0. Is the habitat provided by the site valuable to society?  H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose only the highest score that applies to the wetland being rated.  Site meets ANY of the following criteria:  It has 3 or more priority habitats within 100 m (see next page)  It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists)  It is mapped as a location for an individual WDFW priority species  It is a Wetland of High Conservation Value as determined by the Department of Natural Resources  It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan  Site has 1 or 2 priority habitats (listed on next page) with in 100m points = 1 Site does not meet any of the criteria above	·	
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only the highest score that applies to the wetland being rated .  Site meets ANY of the following criteria: points = 2  It has 3 or more priority habitats within 100 m (see next page)  It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists)  It is mapped as a location for an individual WDFW priority species  It is a Wetland of High Conservation Value as determined by the Department of Natural Resources  It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan  Site has 1 or 2 priority habitats (listed on next page) with in 100m points = 1 Site does not meet any of the criteria above	H 3.0. Is the habitat provided by the site valuable to society?	
Site meets ANY of the following criteria: points = 2    It has 3 or more priority habitats within 100 m (see next page)   It provides habitat for Threatened or Endangered species (any plant or animal on the state or federal lists)   It is mapped as a location for an individual WDFW priority species   It is a Wetland of High Conservation Value as determined by the   Department of Natural Resources   It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan   Site has 1 or 2 priority habitats (listed on next page) with in 100m points = 1 Site does not meet any of the criteria above		
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Department of Natural Resources  It has been categorized as an important habitat site in a local or regional comprehensive plan, in a Shoreline Master Plan, or in a watershed plan  Site has 1 or 2 priority habitats (listed on next page) with in 100m points = 1 Site does not meet any of the criteria above points = 0		0
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Site has 1 or 2 priority habitats (listed on next page) with in 100m points = 1 Site does not meet any of the criteria above points = 0		
Site does not meet any of the criteria above points = 0		

### **WDFW Priority Habitats**

<u>Priority habitats listed by WDFW</u> (see complete descriptions of WDFW priority habitats, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008. Priority Habitat and Species List. Olympia, Washington. 177 pp.

http://wdfw.wa.gov/publications/00165/wdfw00165.pdf or access the list from here: http://wdfw.wa.gov/conservation/phs/list/

Count how many of the following priority habitats are within 330 ft (100 m) of the wetland unit: NOTE: This question is independent of the land use between the wetland unit and the priority habitat. Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha). ☐ Biodiversity Areas and Corridors: Areas of habitat that are relatively important to various species of native fish and wildlife (full descriptions in WDFW PHS report). ☐ **Herbaceous Balds**: Variable size patches of grass and forbs on shallow soils over bedrock. Old-growth/Mature forests: Old-growth west of Cascade crest – Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in (81 cm) dbh or > 200 years of age. Mature forests - Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest. Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important (full descriptions in WDFW PHS report p. 158 - see web link above ). ☐ **Riparian**: The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other. ☐ Westside Prairies: Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie (full descriptions in WDFW PHS report p. 161 - see web link above). ☐ Instream: The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources. Nearshore: Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore. (full descriptions of habitats and the definition of relatively undisturbed are in WDFW report – see web link on previous page). ☐ Caves: A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human. ☐ Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation. ☐ Talus: Homogenous areas of rock rubble ranging in average size 0.5 - 6.5 ft (0.15 - 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs. Snags and Logs: Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 20 in (51 cm) in western Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.

**Note**: All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed elsewhere.

## **CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS**

Wetland	l Type	Category
Check of	f any criteria that apply to the wetland. List the category when the appropriate criteria are met.	
	Estuarine Wetlands	
	Does the wetland meet the following criteria for Estuarine wetlands?	
	The dominant water regime is tidal,	
	Vegetated, and	
	With a salinity greater than 0.5 ppt	
	☐ Yes - Go to SC 1.1 ☐ No = Not an estuarine wetland	
SC 1.1.	Is the wetland within a National Wildlife Refuge, National Park, National Estuary	
	Reserve, Natural Area Preserve, State Park or Educational, Environmental, or	
	Scientific Reserve designated under WAC 332-30-151?	
	☐ Yes = Category I ☐ No - Go to SC 1.2	
SC 1.2.	Is the wetland unit at least 1 ac in size and meets at least two of the following three conditions?	
	The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing,	
	and has less than 10% cover of non-native plant species. (If non-native species are	
	Spartina, see page 25)	
	At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or	
	un-grazed or un-mowed grassland.	
	The wetland has at least two of the following features: tidal channels, depressions with	
	open water, or contiguous freshwater wetlands.  ☐ Yes = Category I ☐ No = Category II	
SC 20 1	Wetlands of High Conservation Value (WHCV)	
SC 2.1.		
00 2.1.	of Wetlands of High Conservation Value?	
	☐ Yes - Go to SC 2.2 ☐ No - Go to SC 2.3	
SC 2.2.	Is the wetland listed on the WDNR database as a Wetland of High Conservation Value?	
	☐ Yes = Category I ☐ No = Not WHCV	
SC 2.3.	Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	
	http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf	
	☐ Yes - Contact WNHP/WDNR and to SC 2.4   ☐ No = Not WHCV	
SC 2.4.	Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation	
	Value and listed it on their website?	
	☐ Yes = Category I ☐ No = Not WHCV	
SC 3.0. I		
	Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation	
	in bogs? Use the key below. If you answer YES you will still need to rate the	
SC 3.1.	wetland based on its functions.  Does an area within the wetland unit have organic soil horizons, either peats or mucks,	
30 3.1.	that compose 16 in or more of the first 32 in of the soil profile?	
	☐ Yes - Go to SC 3.3 ☐ No - Go to SC 3.2	
SC 3.2.	Does an area within the wetland unit have organic soils, either peats or mucks, that are	
00 0.2.	less than 16 in deep over bedrock, or an impermeable hardpan such as clay or	
	volcanic ash, or that are floating on top of a lake or pond?	
	☐ Yes - Go to SC 3.3 ☐ No = Is not a bog	
SC 3.3.	Does an area with peats or mucks have more than 70% cover of mosses at ground	
	level, AND at least a 30% cover of plant species listed in Table 4?	
	☐ Yes = <b>Is a Category   bog</b> ☐ No - Go to <b>SC 3.4</b>	
	<b>NOTE</b> : If you are uncertain about the extent of mosses in the understory, you may	
	substitute that criterion by measuring the pH of the water that seeps into a hole dug at	
	least 16 in deep. If the pH is less than 5.0 and the plant species in Table 4 are present,	
0004	the wetland is a bog.	
SC 3.4.	Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir,	
1	western red cedar, western hemlock, lodgepole pine, quaking aspen, Engelmann	
1	spruce, or western white pine, AND any of the species (or combination of species)	
	listed in Table 4 provide more than 30% of the cover under the canopy?	
	☐ Yes = <b>Is a Category   bog</b> ☐ No = <b>Is not a bog</b>	

SC 4	1.0. F	Forested Wetlands	
		Does the wetland have at least <u>1 contiguous acre</u> of forest that meets one of these	
		criteria for the WA Department of Fish and Wildlife's forests as priority habitats? <i>If you</i>	
		answer YES you will still need to rate the wetland based on its functions.	
		Old-growth forests (west of Cascade crest): Stands of at least two tree species,	
		forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac	
		(20 trees/ha) that are at least 200 years of age OR have a diameter at breast height	
		(dbh) of 32 in (81 cm) or more.	
	П	Mature forests (west of the Cascade Crest): Stands where the largest trees are 80-	
	_	200 years old OR the species that make up the canopy have an average diameter	
		(dbh) exceeding 21 in (53 cm).	
		(ubit) exceeding 21 iii (55 citi).	
		☐ Yes = Category   ☑ No = Not a forested wetland for this section	
SC F	: n \	Wetlands in Coastal Lagoons	
	).o	Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?	
		The wetland lies in a depression adjacent to marine waters that is wholly or partially	
	Ш	separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently,	
		rocks	
ı	П	The lagoon in which the wetland is located contains ponded water that is saline or	
ı	Ш	brackish (> 0.5 ppt) during most of the year in at least a portion of the lagoon ( <i>needs to</i>	
ı		be measured near the bottom)	
ı		☐ Yes - Go to SC 5.1 ☐ No = Not a wetland in a coastal lagoon	
SC F	: 1 F	Does the wetland meet all of the following three conditions?	
SC .	_		
ı	The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation,		
ı		grazing), and has less than 20% cover of aggressive, opportunistic plant species (see	
	$\Box$	list of species on p. 100).  At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or	
	Ш		
		un-grazed or un-mowed grassland.  The wotland is larger than <sup>1</sup> / <sub>2</sub> , as (4350 ft <sup>2</sup> )	
	The wetland is larger than $\frac{1}{10}$ ac (4350 ft <sup>2</sup> )		
		☐ Yes = Category I ☐ No = Category II	
SC 6	5.0. I	nterdunal Wetlands	
		Is the wetland west of the 1889 line (also called the Western Boundary of Upland	
ı		Ownership or WBUO)? If you answer yes you will still need to rate the wetland	
ı		based on its habitat functions.	
	_	In practical terms that means the following geographic areas:	
	Ц	Long Beach Peninsula: Lands west of SR 103	
	_	Grayland-Westport: Lands west of SR 105	
		Ocean Shores-Copalis: Lands west of SR 115 and SR 109	
		☐ Yes - Go to SC 6.1 ☑ No = Not an interdunal wetland for rating	
SC 6	3.1.	Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form	
		(rates H,H,H or H,H,M for the three aspects of function)?	
1		☐ Yes = Category I ☐ No - Go to SC 6.2	
SC 6	3.2.	Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger?	
ı		☐ Yes = Category II ☐ No - Go to SC 6.3	
SC 6	C 6.3. Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and		
		1 ac?	
		☐ Yes = Category III ☐ No = Category IV	
		y of wetland based on Special Characteristics	NA
If voi	u an	swered No for all types, enter "Not Applicable" on Summary Form	IVA



**LEGEND** 

— — 150' Rating Buffer

Cowardin

PFO

\_\_\_\_ Dense woody plants



0 50 100 **SOURCE:** SURVEY BY DAVID EVANS AND ASSOCIATES

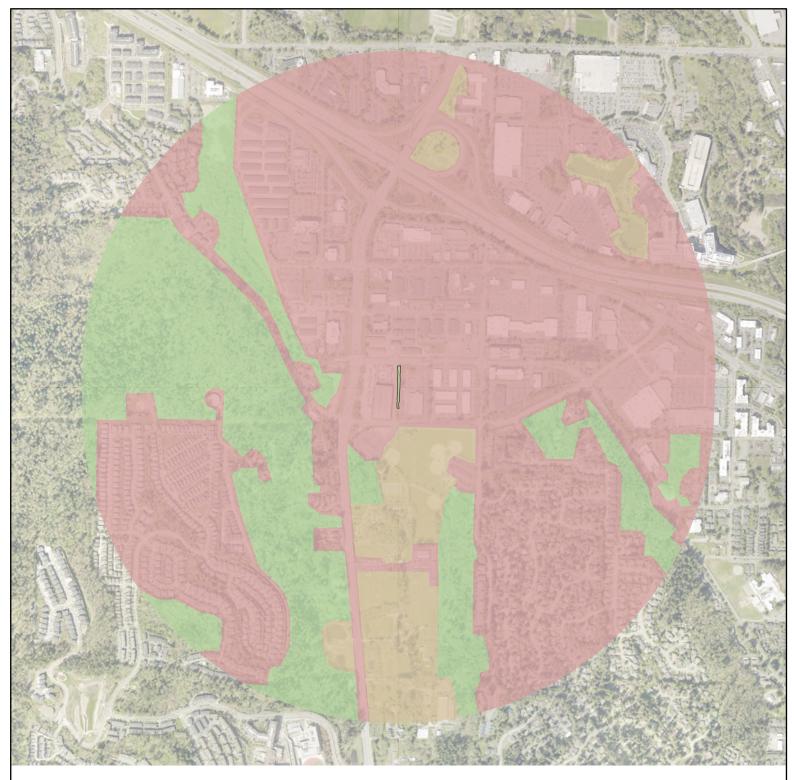


#### **WETLAND RATING MAP**

King County Housing Authority
Parcel 292406-9002

1550 Newport Way Northwest, Issaquah, Washington

#0189 OCT 2024





Wetland A

Land Use Intensity

High

Moderate/Low

Relatively Undisturbed



**SOURCE:** SURVEY BY DAVID EVANS AND ASSOCIATES



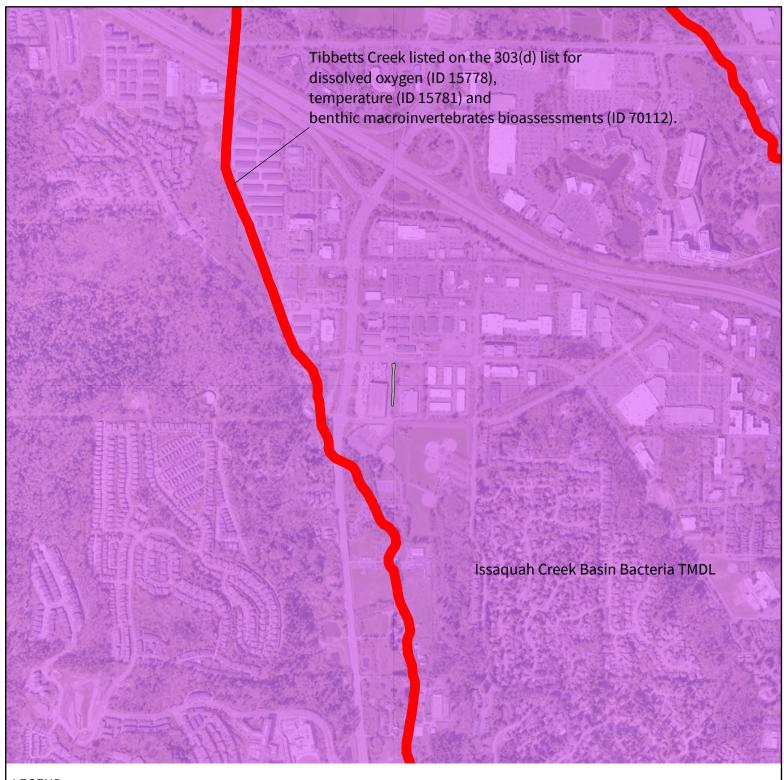
#### **WETLAND RATING MAP**

King County Housing Authority Parcel 292406-9002

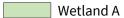
1550 Newport Way Northwest, Issaquah, Washington

**FIGURE B** 

**OCT 2024** 

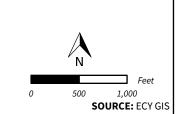






303(d) Listed Waters







#### **WETLAND RATING MAP**

King County Housing Authority Parcel 292406-9002 1550 Newport Way Northwest, Issaquah, Washington OCT 2024
FIGURE C

#0189