Altmann Oliver Associates, LLC

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August 26, 2024

AOA-5152

Sonam Ghag s.g90@hotmail.com

SUBJECT: Critical Areas Designation (CAD) for Parcels 722980-0360 and -0365

King County, WA

Dear Sonam,

On August 9, 2024, AOA conducted a wetland delineation on the undeveloped subject property utilizing the methodology outlined in the May 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0).

One wetland (Wetland A) was identified and delineated through the center of the site during the field investigation. Wetland A was previously rated as part of an approved CAD to the north on parcel 722980-0350 (CADS21-0278) as a Depressional Hydrogeomorphic (HGM) Category IV Wetland with a 50-foot buffer and 15-foot building setback. This buffer can typically be reduced to 40 feet if all the mitigation measures outlined in KCC 21A.24.325.C.6(2)b are implemented (see Page 2). The previously approved rating is still valid and was confirmed to be accurate during the recent field investigation.

Vegetation within Wetland A contained a forested plant community that included black cottonwood (*Populus balsamifera*), western crabapple (*Malus fusca*), Douglas spirea (*Spiraea douglasii*), Himalayan blackberry (*Rubus armeniacus*), creeping buttercup (*Ranunculus repens*), slough sedge (*Carex obnupta*), lady fern (*Athyrium filix-femina*), and western sword fern (*Polystichum munitum*). Vegetation within the uplands surrounding Wetland A consisted of a mixed upland forest which included Douglas fir (*Pseudotsuga menziesii*), big leaf maple (*Acer macrophyllum*), vine maple (*Acer circinatum*), beaked hazelnut (*Corylus cornuta*), Himalayan blackberry (*Rubus armeniacus*), osoberry (*Oemleria cerasiformis*), western sword fern (*Polystichum munitum*), and trailing blackberry (*Rubus ursinus*).

Soils within the wetland were dry at the time of the field investigation. **Attachment A** contains data sheets prepared for representative locations in both the wetland and uplands. These data sheets document the vegetation, soils, and hydrology information that aided in the wetland boundary delineation.

| Disturbance | Measures to minimize impacts |
|----------------------------|--|
| Lights | Direct lights away from wetland. |
| Noise | Locate activity that generates noise away from wetland. If warranted, enhance existing buffer with native vegetation plantings adjacent to noise source. For activities that generate relatively continuous, potentially disruptive noise, such as certain heavy industry or mining, establish an additional ten-foot heavily vegetated buffer strip immediately adjacent to the outer wetland buffer. |
| Toxic runoff | Route all new untreated runoff away from wetland while ensuring wetland is not dewatered. Establish covenants limiting use of pesticides within 150 feet of wetland. Apply integrated pest management. |
| Stormwater runoff | Retrofit stormwater detention and treatment for roads and existing adjacent development. Prevent channelized flow from lawns that directly enters the buffer. Use low impact intensity development techniques identified in the King County Surface Water Design Manual. |
| Change in water regime | Infiltrate or treat, detain and disperse into buffer new runoff from impervious surfaces and new lawns. |
| Pets and human disturbance | Use privacy fencing or plant dense vegetation to delineate buffer edge and to discourage disturbance using vegetation appropriate for the ecoregion. Place wetland and its buffer in a separate tract or protect with a conservation easement. |
| Dust | Use best management practices to control dust. |

If you have any questions regarding the CAD, please give me a call.

Sincerely,

ALTMANN OLIVER ASSOCIATES, LLC

John Altmann Ecologist

Attachments

Carnation, WA 98014

Office (425) 333-4535 Fax (425) 333-4509

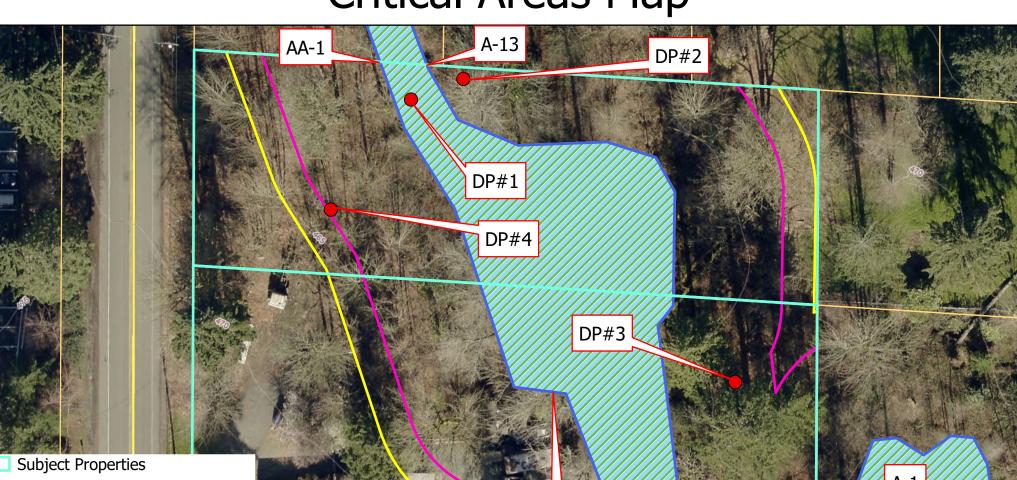
AOA-5152

Environmental Planning & Landscape Architecture

King County Parcels: 7229800365

& 7229800360

Critical Areas Map



King_County_Parcels

Approximate Data Plot Locations

Approximate Wetland A Cat. IV

Approximate 50' Wetland Buffer

Approximate 15' Building Setback





ATTACHMENT A DATA SHEETS

| Project Site: <u>Parcel 722980-0360, -0365</u> | | | City/Coun | ty: <u>/King</u> Sampling D |)ate: <u>8</u> | <u>8-9-24</u> | |
|--|-------------------|-----------------|---------------|--|----------------|---------------|-------|
| Applicant/Owner: <u>Ghag</u> | | | | State: <u>WA</u> Sampling P | oint: <u>D</u> |)P#1 | |
| Investigator(s): <u>John Altmann, Dain Altmann</u> | | | | Section, Township, Range: S13,T23 | 3N,R5E | | |
| Landform (hillslope, terrace, etc.): depression | | Local | relief (conca | ave, convex, none): <u>concave</u> | Slope (% | ó): | |
| Subregion (LRR): <u>A</u> | Lat: <u>47.47</u> | <u> 19805</u> | | Long: <u>-122.11454</u> | Datum: | | |
| Soil Map Unit Name: AgC | | | | NWI classification: | | | |
| Are climatic / hydrologic conditions on the site typical for | this time of y | ear? Ye | es 🛛 | No | | | |
| Are Vegetation ☐, Soil ☐, or Hydrology | ☐, significa | antly disturbed | ? Are "I | Normal Circumstances" present? | Yes 🗵 | No | |
| Are Vegetation □, Soil □, or Hydrology | ☐, naturally | y problematic? | (If ne | eded, explain any answers in Remarks.) | | | |
| | | | | | | | |
| SUMMARY OF FINDINGS – Attach site map sh | nowing sam | pling point | locations, | transects, important features, etc. | | | |
| Hydrophytic Vegetation Present? | Yes 🏻 | No 🗆 | | | | | |
| Hydric Soil Present? | Yes 🛛 | | Is the Samp | | Yes ⊠ | No No | |
| Wetland Hydrology Present? | Yes ⊠ | No 🗆 | within a We | tland? | | | _ |
| | | | | | | | |
| Remarks: Located 10' into wetland at A-13. | | | | | | | |
| | | | | | | | |
| VEOETATION II : ::: | | | | | | | |
| VEGETATION – Use scientific names of plants | Absolute | Dominant | Indicator | T | | | |
| Tree Stratum (Plot size: 10') | % Cover | Species? | Status | Dominance Test Worksheet: | | | |
| 1. <u>Populus balsamifera</u> | <u>40</u> | <u>yes</u> | FAC | Number of Dominant Species | <u>5</u> | | (A) |
| 2 | | | | That Are OBL, FACW, or FAC: | <u> </u> | | (71) |
| 3 | | | | Total Number of Dominant | 6 | | (B) |
| 4 | | | | Species Across All Strata: | <u>6</u> | | (D) |
| 50% = <u>20,</u> 20% = <u>8</u> | <u>40</u> | = Total Cove | r | Percent of Dominant Species | 00 | | (A/D) |
| Sapling/Shrub Stratum (Plot size: 10') | | | | That Are OBL, FACW, or FAC: | <u>83</u> | | (A/B) |
| 1. <u>Populus balsamifera</u> | <u>20</u> | <u>ves</u> | <u>FAC</u> | Prevalence Index worksheet: | | | |
| 2. Rubus spectabilis | <u>20</u> | <u>yes</u> | FAC | Total % Cover of: | Multiply b | <u> </u> | |
| 3 | | | | OBL species | x1 = | | |
| 4 | | | | FACW species | x2 = | | |
| 5 | | | | FAC species | x3 = | | |
| 50% = <u>20</u> , 20% = <u>8</u> | 40 | = Total Cove | r | FACU species | x4 = | | |
| Herb Stratum (Plot size: 10') | | | | UPL species | x5 = | | |
| Phalaris arundinacea | 40 | 1/00 | EACW | | A0 - | | (D) |
| | <u>40</u> | <u>yes</u> | <u>FACW</u> | Column Totals:(A) | | | (D) |
| 2. <u>Ranunculus repens</u> | <u>40</u> | <u>yes</u> | <u>FAC</u> | Prevalence Index = B/A | <i>t</i> = | | |
| 3. <u>Epilobium ciliatum</u> | <u>20</u> | <u>no</u> | <u>FACW</u> | Hydrophytic Vegetation Indicators: | | | |
| 4. <u>Schedonorus arundinaceus</u> | <u>20</u> | <u>no</u> | <u>FAC</u> | 1 – Rapid Test for Hydrophytic Vege | tation | | |
| 5 | | — | | 2 - Dominance Test is >50% | | | |
| 6 | | | | ☐ 3 - Prevalence Index is ≤3.01 | | | |
| 7 | | | | 4 - Morphological Adaptations¹ (Prov | /ide supportin | ıg | |
| 8 | | | | data in Remarks or on a separate | sheet) | | |
| 9 | | | | ☐ 5 - Wetland Non-Vascular Plants¹ | | | |
| 10 | | | | ☐ Problematic Hydrophytic Vegetation¹ | ¹ (Explain) | | |
| 11 | | | | | , | | |
| 50% = 60, 20% = 24 | 120 | = Total Cove | r | ¹ Indicators of hydric soil and wetland hydro | | | |
| Woody Vine Stratum (Plot size: 10') | | | | be present, unless disturbed or problemati | C. | | |
| 1. Rubus ursinus | <u>10</u> | <u>yes</u> | FACU | | | | |
| 2 | _ | | | Hydrophytic | | | |
| 50% = 5, 20% = 2 | <u>10</u> | = Total Cove | | Vegetation Yes | \boxtimes | No | |
| | 10 | - Total Cove | | Present? | | | |
| % Bare Ground in Herb Stratum | | | | 1 | | | |
| Remarks: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| nches) Color (moist) | % | Color (m | oist) % | Type ¹ Loc ² | Texture | Remarks |
|--|--------------------------------|------------------|---|---|-------------|--|
| 0-16 10YR3/2 | <u>95</u> | 10YR5/ | | RM M | gravel lo | - |
| | | | | | | |
| | | | | | | |
| | | | | | | <u>-</u> |
| | | | - — | | | |
| | | | | | | - |
| | | | | | | |
| | | - - | | | | - |
| /pe: C= Concentration, D=D | - | | | coated Sand Grains. | | =Pore Lining, M=Matrix |
| dric Soil Indicators: (Appli Histosol (A1) | Cable to all I | | Sandy Redox (S5) | | | cators for Problematic Hydric Soils ³ : 2 cm Muck (A10) |
| Histic Epipedon (A2) | | | Stripped Matrix (Se | | | Red Parent Material (TF2) |
| Black Histic (A3) | | | | eral (F1) (except MLRA | | Very Shallow Dark Surface (TF12) |
| Hydrogen Sulfide (A4) | | | Loamy Gleyed Mat | | , _ | Other (Explain in Remarks) |
| Depleted Below Dark Su | face (A11) | | Depleted Matrix (F | • • | | , , |
| Thick Dark Surface (A12 |) | | Redox Dark Surfac | ce (F6) | | |
| Sandy Mucky Mineral (S | 1) | | Depleted Dark Sur | face (F7) | | icators of hydrophytic vegetation and |
| Sandy Gleyed Matrix (S4 |) | | Redox Depression | s (F8) | | vetland hydrology must be present, inless disturbed or problematic. |
| strictive Layer (if present) | | | | | | |
| | | | | | | |
| | | | | | I- D | |
| epth (inches):emarks: | | | | Hydric Soi | is Present? | Yes ⊠ No |
| DROLOGY | | | | Hydric Sol | is Present? | Yes ⊠ No |
| DROLOGY etland Hydrology Indicator | | | at apply) | Hydric Sol | | |
| DROLOGY etland Hydrology Indicator mary Indicators (minimum o | | | | | Secon | ndary Indicators (2 or more required) |
| DROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) | | d; check all tha | Water-Stained Lea | aves (B9) | Secon | ndary Indicators (2 or more required) Water-Stained Leaves (B9) |
| PROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) | | | Water-Stained Lea | aves (B9) | Secon | ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| PROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) | | | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) | ives (B9) 2, 4A, and 4B) | Secon | ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) |
| PROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) | | | Water-Stained Lea | ives (B9) 2, 4A, and 4B) tes (B13) | Secon | ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| DROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) | | | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (| ives (B9) 2, 4A, and 4B) tes (B13) | Secon | mdary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| DROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) | | | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (| ives (B9) 2, 4A, and 4B) tes (B13) Odor (C1) heres along Living Roots | Secon | ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) |
| DROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) | | | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (Oxidized Rhizosph Presence of Reduc | ives (B9) 2, 4A, and 4B) tes (B13) Odor (C1) heres along Living Roots | Secon | ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) |
| PROLOGY Etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) | one required | | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (Oxidized Rhizosph Presence of Reduct Recent Iron Reduct | aves (B9) 2, 4A, and 4B) tes (B13) Odor (C1) heres along Living Roots ced Iron (C4) | Secon | ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) |
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| DROLOGY DROLOGY Detland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ae | one required | | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebral Hydrogen Sulfide (Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Stunted or Stresse | eives (B9) 2, 4A, and 4B) tes (B13) Odor (C1) neres along Living Roots ced Iron (C4) stion in Tilled Soils (C6) se Plants (D1) (LRR A) | Secon | mdary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| DROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Coreld Observations: | rial Imagery (| (B7) (B8) | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in R | aves (B9) 2, 4A, and 4B) tes (B13) Odor (C1) neres along Living Roots ced Iron (C4) stion in Tilled Soils (C6) as Plants (D1) (LRR A) Remarks) | Secon | mdary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| DROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Core eld Observations: rface Water Present? | rial Imagery (cave Surface | (B7) | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Stunted or Stresse Other (Explain in Reduct) | aves (B9) 2, 4A, and 4B) tes (B13) Odor (C1) heres along Living Roots ced Iron (C4) ction in Tilled Soils (C6) hs Plants (D1) (LRR A) Remarks)): | Secon | mdary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| DROLOGY Etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Coreld Observations: rface Water Present? | rial Imagery (| (B7) (B8) | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (Oxidized Rhizosph Presence of Reduc Recent Iron Reduc Stunted or Stresse Other (Explain in R | aves (B9) 2, 4A, and 4B) tes (B13) Odor (C1) heres along Living Roots ced Iron (C4) ction in Tilled Soils (C6) hs Plants (D1) (LRR A) Remarks)): | Secon | mdary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| DROLOGY etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Core eld Observations: rface Water Present? | rial Imagery (cave Surface | (B7) | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Stunted or Stresse Other (Explain in Reduct) | aves (B9) 2, 4A, and 4B) tes (B13) Odor (C1) neres along Living Roots ced Iron (C4) ction in Tilled Soils (C6) as Plants (D1) (LRR A) Remarks) ():):): | Secon | mdary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| DROLOGY Etland Hydrology Indicator mary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6 Inundation Visible on Ae Sparsely Vegetated Cor eld Observations: rface Water Present? ster Table Present? turation Present? | rial Imagery (cave Surface Yes | (B7) | Water-Stained Lea (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (Oxidized Rhizosph Presence of Reduct Recent Iron Reduct Stunted or Stresse Other (Explain in Reduct Depth (inches) Depth (inches) | eives (B9) 2, 4A, and 4B) Ites (B13) Odor (C1) Iteres along Living Roots Cod Iron (C4) Ites (D1) (LRR A) Remarks) Code (Long (Living Roots) Code (Living | Secon | ndary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |

| Project Site: <u>Parcel 722980-0360, -0365</u> | | | City/Coun | ty: <u>/King</u> | Sampling Date: | <u>8-9-24</u> | |
|---|------------------|-----------------|------------------|---|-------------------------|---------------|-------|
| Applicant/Owner: <u>Ghag</u> | | | | State: WA | Sampling Point: | DP#2 | |
| Investigator(s): <u>John Altmann, Dain Altmann</u> | | | | Section, Township, Ran | ge: <u>S13,T23N,R5E</u> | | |
| Landform (hillslope, terrace, etc.): terrace | | Loca | l relief (conca | ave, convex, none): <u>concave</u> | Slope | (%): | |
| Subregion (LRR): <u>A</u> | Lat: 47.47 | 7 <u>9805</u> | | Long: <u>-122.11454</u> | Datum: _ | | |
| Soil Map Unit Name: AgC | | | | NWI clas | sification: | | |
| Are climatic / hydrologic conditions on the site typical fo | r this time of y | ear? Ye | es 🛛 | No | n Remarks.) | | |
| Are Vegetation ☐, Soil ☐, or Hydrology | ☐, significa | antly disturbed | ? Are "I | Normal Circumstances" present? | ? Yes | ☑ No | |
| Are Vegetation ☐, Soil ☐, or Hydrology | □, naturall | y problematic? | (If ne | eded, explain any answers in Re | emarks.) | | |
| | | | | | | | |
| SUMMARY OF FINDINGS - Attach site map si | howing san | pling point | locations, | transects, important featu | res, etc. | | |
| Hydrophytic Vegetation Present? | Yes 🗌 | No 🛛 | | | | | |
| Hydric Soil Present? | Yes 🗌 | | Is the Samp | | Yes | □ No | |
| Wetland Hydrology Present? | Yes 🗆 | No 🖾 | within a We | tiand? | | | |
| Remarks: Located 10' into upland off A-13 | | | | | | | |
| Tremains. Located to Into apiana on A-13 | | | | | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of plants | | | | | | | |
| Tree Stratum (Plot size: 10') | Absolute | Dominant | Indicator | Dominance Test Worksheet | • | | |
| | % Cover | Species? | Status 54.011 | Dominance rest Worksheet | | | |
| 1. Acer macrophyllum | <u>90</u> | <u>yes</u> | <u>FACU</u> | Number of Dominant Species That Are OBL, FACW, or FAC | | | (A) |
| 2. <u>Populus balsamifera</u> | <u>10</u> | <u>no</u> | <u>FAC</u> | That Are OBL, I ACW, or I AC | ٠. | | |
| 3 | | | | Total Number of Dominant | <u>4</u> | | (B) |
| 4 | | | | Species Across All Strata: | | | |
| 50% = <u>50</u> , 20% = <u>20</u> | <u>100</u> | = Total Cove | er | Percent of Dominant Species | <u>0</u> | | (A/B) |
| Sapling/Shrub Stratum (Plot size: 10') | | | | That Are OBL, FACW, or FAC | ,: <u>-</u> | | |
| 1. <u>Ilex aquifolium</u> | <u>70</u> | <u>ves</u> | <u>FACU</u> | Prevalence Index workshee | | | |
| 2. <u>Oemleria cerasiformis</u> | <u>20</u> | <u>no</u> | <u>FACU</u> | Total % Cover of | <u> </u> | <u>y by:</u> | |
| 3. Rubus spectabilis | <u>20</u> | <u>no</u> | <u>FAC</u> | OBL species | x1 = | | |
| 4. <u>Prunus laurocerasus</u> | <u>10</u> | <u>no</u> | NL (UPL) | FACW species | x2 = | | |
| 5 | | | | FAC species | x3 = | | |
| 50% = <u>60</u> , 20% = <u>24</u> | <u>120</u> | = Total Cove | er | FACU species | x4 = | | |
| Herb Stratum (Plot size: 10') | | | | UPL species | x5 = | | |
| 1. Polystichum munitum | <u>5</u> | <u>yes</u> | <u>FACU</u> | Column Totals: | _ (A) | | (B) |
| 2 | | | | Prevalence | e Index = B/A = | | |
| 3 | | | | Hydrophytic Vegetation Ind | icators: | | |
| 4 | | | | ☐ 1 – Rapid Test for Hydro | ophytic Vegetation | | |
| 5 | | | | 2 - Dominance Test is > | - | | |
| 6. | | | | 3 - Prevalence Index is | | | |
| 7 | | | | | _ | tin a | |
| 8. | | | | 4 - Morphological Adapt data in Remarks or o | | ung | |
| 9. | | | | 5 - Wetland Non-Vascul | ar Plants ¹ | | |
| 10. | | | | | | | |
| 11. | | | | ☐ Problematic Hydrophytic | vegetation (Explain) | | |
| | | | | ¹ Indicators of hydric soil and v | vetland hydrology must | | |
| 50% = <u>2.5</u> , 20% = <u>1</u> | <u>5</u> | = Total Cove | er | be present, unless disturbed of | | | |
| Woody Vine Stratum (Plot size: 10') | | | | | | | |
| 1. Rubus ursinus | <u>30</u> | <u>yes</u> | <u>FACU</u> | Hydronhytic | | | |
| 2 | | | | Hydrophytic Vegetation | Yes 🗆 | No | |
| 50% = <u>15</u> , 20% = <u>6</u> | <u>30</u> | = Total Cove | er | Present? | _ | | _ |
| % Bare Ground in Herb Stratum | | | | | | | |
| Remarks: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 1 | | | | | | | |

| Depth | Matrix | | | | dox Features | | | | | | |
|--|--|-----------------------------------|--------------|---|---|--|--|--|---|----------------------|----|
| nches) Color (n | | % | Color (m | oist) % | % Type | 1 Loc ² | Texture | | Remark | s | |
| <u>0-16</u> <u>10YF</u> | <u>3/4</u> | <u>100</u> | | - — | | | gravel loa | <u></u> | | | |
| | | | | - — | | - | | | | | |
| | | | | | | - | | | | | |
| | | | | | | | | · — | | | |
| | | | | - — | _ | | | | | | |
| | | | | | | - | | | | | |
| | | | | | | | | · · · · · · · · · · · · · · · · · · · | | | |
| pe: C= Concentration | . D=Depleti | on. RM=f | Reduced Ma | trix. CS=Cover | ed or Coated Sa | and Grains. | ² Location: PL= | Pore Lining, M=Ma | trix | | |
| dric Soil Indicators: | • | | | | | | | cators for Problem | | Soils ³ : | |
| Histosol (A1) | | | | Sandy Redo | - | | | 2 cm Muck (A10) | - | | |
| Histic Epipedon (A | 2) | | | Stripped Ma | atrix (S6) | | | Red Parent Mate | rial (TF2) | | |
| Black Histic (A3) | | | | Loamy Muc | ky Mineral (F1) | (except MLRA 1 |) 🗆 | Very Shallow Dar | k Surface (T | F12) | |
| Hydrogen Sulfide | A4) | | | Loamy Gley | ved Matrix (F2) | | | Other (Explain in | Remarks) | | |
| Depleted Below D | ark Surface | (A11) | | Depleted Ma | atrix (F3) | | | | | | |
| Thick Dark Surfac | e (A12) | | | Redox Dark | Surface (F6) | | | | | | |
| Sandy Mucky Min | eral (S1) | | | Depleted Da | ark Surface (F7) | | | cators of hydrophytic | | | |
| Sandy Gleyed Ma | rix (S4) | | | Redox Depr | ressions (F8) | | | etland hydrology mu nless disturbed or pi | | it, | |
| strictive Layer (if pr | sent): | | | | | | | | | | |
| e: | _ | | | | | | | | | | |
| oth (inches): | _ | | | | | Hydric Soils | s Present? | Ye | es 🗆 | No | |
| marks: no redoxin | norphic featu | ures | | | | | | | | | |
| marks: no redoxin | norphic featu | ures | | | | | | | | | |
| PROLOGY | | ures | | | | | | | | | |
| PROLOGY tland Hydrology Inc | icators: | | check all th | at apply) | | | Second | dary Indicators (2 o | r more requir | ed) | |
| PROLOGY tland Hydrology Inc | icators: | | check all th | | ied Leaves (B9) | | ∨ | Nater-Stained Leave | es (B9) | ed) | |
| PROLOGY Itland Hydrology Inc mary Indicators (minin | icators: num of one | | | Water-Stain | ed Leaves (B9) RA 1, 2, 4A, and | | ∨ | | es (B9) | ed) | |
| PROLOGY Istland Hydrology Inc mary Indicators (mini Surface Water (A | icators: num of one | | | Water-Stain | RA 1, 2, 4A, and | | | Nater-Stained Leave | es (B9) | ed) | |
| ROLOGY tland Hydrology Inc mary Indicators (minin Surface Water (A High Water Table | icators: num of one | | | Water-Stain (except ML) Salt Crust (E Aquatic Inve | RA 1, 2, 4A, and B11) ertebrates (B13) | d 4B) | U V | Water-Stained Leave | es (B9) d 4B) 310) | ed) | |
| PROLOGY Itland Hydrology Inc mary Indicators (minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit | icators: num of one 1) (A2) | | | Water-Stain- (except MLI Salt Crust (E Aquatic Inve Hydrogen S | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) | d 4B) | V (I C C S | Water-Stained Leave (MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or | es (B9) d 4B) B10) Table (C2) n Aerial Imag | | |
| PROLOGY Intland Hydrology Inc mary Indicators (minin Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3) | icators: num of one I) (A2) s (B2) | | | Water-Stain (except ML Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon | d 4B) ng Living Roots (| V (() | Water-Stained Leave (MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position | es (B9) d 4B) 310) able (C2) n Aerial Imag | | |
| PROLOGY Stland Hydrology Inc mary Indicators (mining Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3) Algal Mat or Crus | icators: num of one I) (A2) s (B2)) (B4) | | 0 | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (| d 4B) ng Living Roots ((| V (() C () C () | Water-Stained Leave MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (Di | es (B9) d 4B) d 10) dable (C2) a Aerial Imag n (D2) | | |
| PROLOGY Stland Hydrology Inc mary Indicators (minit Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 | icators: num of one I) (A2) s (B2)) | | 0 | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (Reduction in Til | d 4B) Ing Living Roots (C4) Iled Soils (C6) | V (() () () () () () () () () () () () () | Water-Stained Leave MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (Di FAC-Neutral Test (D | es (B9) 3 4B) 310) able (C2) A Aerial Imag 1 (D2) 3) | ery (C9) | |
| DROLOGY Etland Hydrology Incomary Indicators (mining Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Cruster Iron Deposits (B5) Surface Soil Crace | icators: num of one 1) (A2) s (B2)) t (B4) | required; | | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (G Reduction in Til Stresses Plants (| d 4B) Ing Living Roots (C4) Iled Soils (C6) | C3) | Water-Stained Leave (MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (Di FAC-Neutral Test (D Raised Ant Mounds | es (B9) d 4B) 310) Table (C2) n Aerial Imag n (D2) 3) (D6) (LRR A | ery (C9) | |
| DROLOGY Istland Hydrology Inc mary Indicators (minin Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible | icators: num of one I) (A2) s (B2) c (B4) c (B6) on Aerial In | required; | | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (Reduction in Til | d 4B) Ing Living Roots (C4) Iled Soils (C6) | C3) | Water-Stained Leave MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (Di FAC-Neutral Test (D | es (B9) d 4B) 310) Table (C2) n Aerial Imag n (D2) 3) (D6) (LRR A | ery (C9) | |
| DROLOGY Intertand Hydrology Inc. Int. I | icators: num of one I) (A2) s (B2) c (B4) c (B6) on Aerial In | required; | | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (G Reduction in Til Stresses Plants (| d 4B) Ing Living Roots (C4) Iled Soils (C6) | C3) | Water-Stained Leave (MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (Di FAC-Neutral Test (D Raised Ant Mounds | es (B9) d 4B) 310) Table (C2) n Aerial Imag n (D2) 3) (D6) (LRR A | ery (C9) | |
| PROLOGY Patland Hydrology Incomary Indicators (mining Surface Water (A High Water Tablet Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Cract Inundation Visiblet Sparsely Vegetate (Bd Observations: | icators: num of one I) (A2) s (B2)) t (B4) on Aerial Ined Concave | required; magery (E Surface | | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (Reduction in Til Stresses Plants (ain in Remarks) | d 4B) Ing Living Roots (C4) Iled Soils (C6) | C3) | Water-Stained Leave (MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (Di FAC-Neutral Test (D Raised Ant Mounds | es (B9) d 4B) 310) Table (C2) n Aerial Imag n (D2) 3) (D6) (LRR A | ery (C9) | |
| DROLOGY etland Hydrology Inc mary Indicators (minit Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crace Inundation Visible Sparsely Vegetate eld Observations: rface Water Present? | icators: num of one I) (A2) s (B2)) s (B4) c (B4) on Aerial In ed Concave | required; magery (E Surface | | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla | RA 1, 2, 4A, and B11) ertebrates (B13) iulfide Odor (C1) nizospheres alon f Reduced Iron (Reduction in Til Stresses Plants (ain in Remarks) | d 4B) Ing Living Roots (C4) Iled Soils (C6) | C3) | Water-Stained Leave (MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (Di FAC-Neutral Test (D Raised Ant Mounds | es (B9) d 4B) 310) Table (C2) n Aerial Imag n (D2) 3) (D6) (LRR A | ery (C9) | |
| PROLOGY etland Hydrology Inc mary Indicators (minin Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Sparsely Vegetate eld Observations: rface Water Present? | icators: num of one I) (A2) s (B2)) t (B4) on Aerial Ined Concave | required; magery (E Surface | | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (Reduction in Til Stresses Plants (ain in Remarks) | d 4B) Ing Living Roots (C4) Iled Soils (C6) | C3) | Water-Stained Leave (MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (Di FAC-Neutral Test (D Raised Ant Mounds | es (B9) d 4B) 310) Table (C2) n Aerial Imag n (D2) 3) (D6) (LRR A | ery (C9) | |
| PROLOGY Stland Hydrology Inc. Mary Indicators (minit Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crace Inundation Visible Sparsely Vegetate Id Observations: rface Water Present? ter Table Present? | icators: num of one I) (A2) s (B2)) s (B4) on Aerial In ed Concave Yes Yes | required; magery (E Surface | | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla | RA 1, 2, 4A, and B11) ertebrates (B13) iulfide Odor (C1) nizospheres alon f Reduced Iron (Reduction in Til Stresses Plants (ain in Remarks) | d 4B) Ing Living Roots (C4) Iled Soils (C6) (D1) (LRR A) | C3) | Water-Stained Leave (MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (Di FAC-Neutral Test (D Raised Ant Mounds | es (B9) d 4B) 310) Table (C2) n Aerial Imag n (D2) 3) (D6) (LRR A | ery (C9) | lo |
| PROLOGY Interpretable State of the State of | icators: num of one I) (A2) s (B2)) s (B4) c (B4) on Aerial In ed Concave Yes Yes Yes | required; magery (E Surface | | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (C1) Reduction in Till Stresses Plants (aain in Remarks) inches): inches): | d 4B) Ing Living Roots (CC4) Iled Soils (C6) Iled Soils (C6) Iled Soils (C6) | V (() () () () () () () () () () () () () | Water-Stained Leave MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (D: FAC-Neutral Test (E Raised Ant Mounds Frost-Heave Hummo | es (B9) 3 4B) 310) 3able (C2) 4 Aerial Imag 5 (D2) 3) (5) (D6) (LRR A | ery (C9) | lo |
| PROLOGY Stland Hydrology Inc mary Indicators (minit Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Sparsely Vegetate Id Observations: Ifface Water Present? | icators: num of one I) (A2) s (B2)) s (B4) c (B4) on Aerial In ed Concave Yes Yes Yes | required; magery (E Surface | | Water-Stain (except ML) Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla | RA 1, 2, 4A, and B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (C1) Reduction in Till Stresses Plants (aain in Remarks) inches): inches): | d 4B) Ing Living Roots (CC4) Iled Soils (C6) Iled Soils (C6) Iled Soils (C6) | V (() () () () () () () () () () () () () | Water-Stained Leave MLRA 1, 2, 4A, and Drainage Patterns (E Dry-Season Water T Saturation Visible or Geomorphic Position Shallow Aquitard (D: FAC-Neutral Test (E Raised Ant Mounds Frost-Heave Hummo | es (B9) 3 4B) 310) 3able (C2) 4 Aerial Imag 5 (D2) 3) (5) (D6) (LRR A | ery (C9) | No |

| Project Site: <u>Parcel 722980-0360, -0365</u> | | | City/Coun | ty: <u>/King</u> | Sampling Date: | <u>8-9-24</u> | |
|--|------------------|-----------------|------------------|--|-------------------------|---------------|-------------|
| Applicant/Owner: <u>Ghag</u> | | | | State: WA | Sampling Point: | DP#3 | |
| Investigator(s): <u>John Altmann, Dain Altmann</u> | | | | Section, Township, Ran | ge: <u>S13,T23N,R5E</u> | | |
| Landform (hillslope, terrace, etc.): gentle slope | | Loca | l relief (conca | ave, convex, none): <u>concave</u> | Slope | (%): | |
| Subregion (LRR): A | Lat: 47.47 | <u> 19805</u> | | Long: <u>-122.11454</u> | Datum: | | |
| Soil Map Unit Name: AgC | | | | NWI clas | sification: | | |
| Are climatic / hydrologic conditions on the site typical for | r this time of y | ear? Ye | es 🛛 | No | n Remarks.) | | |
| Are Vegetation ☐, Soil ☐, or Hydrology | ☐, significa | antly disturbed | ? Are "I | Normal Circumstances" present | ? Yes | ⊠ No |) |
| Are Vegetation ☐, Soil ☐, or Hydrology | ☐, naturall | y problematic? | (If ne | eded, explain any answers in Re | emarks.) | | |
| | | | | | | | |
| SUMMARY OF FINDINGS - Attach site map sl | nowing sam | pling point | locations, | transects, important featu | res, etc. | | |
| Hydrophytic Vegetation Present? | Yes 🗌 | No 🛛 | | | | | |
| Hydric Soil Present? | Yes 🗌 | | Is the Samp | | Yes | □ No | o ⊠ |
| Wetland Hydrology Present? | Yes 🗌 | No 🛛 | within a We | uanu ? | | | |
| Remarks: Upland plot, see map for location. | | | | | | | |
| Themains. Opiana piot, see map for location. | | | | | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of plants | | | | | | | |
| Tree Stratum (Plot size: 10') | Absolute | Dominant | Indicator | Dominance Test Worksheet | | | |
| | % Cover | Species? | Status 54 OLL | Dominance rest Worksheet | | | |
| 1. Acer macrophyllum | <u>70</u> | <u>yes</u> | <u>FACU</u> | Number of Dominant Species That Are OBL, FACW, or FAC | | | (A) |
| 2. <u>Pseudotsuga menziesii</u> | <u>60</u> | <u>yes</u> | <u>FACU</u> | | '• | | |
| 3 | | | | Total Number of Dominant | <u>6</u> | | (B) |
| 4 | | | | Species Across All Strata: | | | |
| 50% = <u>65</u> , 20% = <u>26</u> | <u>130</u> | = Total Cove | er | Percent of Dominant Species That Are OBL, FACW, or FAC | . <u>16</u> | | (A/B) |
| Sapling/Shrub Stratum (Plot size: 10') | | | | | | | |
| 1. <u>Oemleria cerasiformis</u> | <u>60</u> | <u>ves</u> | <u>FACU</u> | Prevalence Index workshee | | | |
| 2. <u>Acer circinatum</u> | <u>40</u> | <u>yes</u> | <u>FAC</u> | Total % Cover of | | <u>y by:</u> | |
| 3. <u>Ilex aquifolium</u> | <u>20</u> | <u>no</u> | <u>FACU</u> | OBL species | x1 = | | |
| 4. Rubus spectabilis | <u>10</u> | <u>no</u> | <u>FAC</u> | FACW species | x2 = | | |
| 5 | | | | FAC species | x3 = | | |
| 50% = <u>65</u> , 20% = <u>26</u> | <u>130</u> | = Total Cove | er | FACU species | x4 = | | |
| Herb Stratum (Plot size: 10') | | | | UPL species | x5 = | | |
| 1. <u>Lapsana communis</u> | <u>5</u> | <u>yes</u> | <u>FACU</u> | Column Totals: | _ (A) | | _(B) |
| 2 | | | | Prevalence | e Index = B/A = | | |
| 3 | | | | Hydrophytic Vegetation Ind | icators: | | |
| 4 | | | | ☐ 1 – Rapid Test for Hydro | ophytic Vegetation | | |
| 5 | | | | ☐ 2 - Dominance Test is > | 50% | | |
| 6 | | | | ☐ 3 - Prevalence Index is | <3 0 ¹ | | |
| 7 | | | | 4 - Morphological Adapt | _ | tina | |
| 8. | · | | | data in Remarks or o | | ig | |
| 9. | · | | | 5 - Wetland Non-Vascul | ar Plants ¹ | | |
| 10. | ' <u></u> | | | ☐ Problematic Hydrophytic | Negetation1 (Evoluin) | | |
| 11. | | | | Troblematic Hydrophytic | , vegetation (Explain) | | |
| 50% = <u>2.5</u> , 20% = <u>1</u> | <u> </u> | = Total Cove | | ¹ Indicators of hydric soil and v | | | |
| Woody Vine Stratum (Plot size: 10') | <u> </u> | - Total Cove | ži | be present, unless disturbed of | or problematic. | | |
| | 60 | | FACIL | | | | |
| 1. <u>Rubus ursinus</u> | <u>60</u> | <u>yes</u> | <u>FACU</u> | Hydrophytic | | | |
| 2 | | | | | Yes 🗆 | No | \boxtimes |
| 50% = <u>30</u> , 20% = <u>12</u> | <u>60</u> | = Total Cove | er | Present? | | | |
| % Bare Ground in Herb Stratum | | | | | | | |
| Remarks: | | · | | | | | _ |
| | | | | | | | |
| | | | | | | | |
| I and the second | | | | | | | |

| | ription: (Describe to | the dept | n needed to | document the indicator or co | onfirm the absence | of indicators | | t: <u>DP#3</u> | | | |
|---|---|------------------------|------------------|---|--|-------------------------------|--|--|---------------|------------|---|
| Depth | Matrix | , the acpti | i necaca to | Redox Features | minim the absence | or maicutors | J., | | | | |
| nches) | Color (moist) | % | Color (m | | Loc ² | _ Texture | | Re | marks | | |
| <u>0-16</u> | 10YR5/4 | 100 | | <u> </u> | | gravel loan | <u></u> | 110 | illains | | |
| <u>0-10</u> | <u>1011(3/4</u> | 100 | | - — — | | graverioan | <u> </u> | | | | |
| | | | | - — — | | | | | | | |
| | | | | - — — | | | | | | | |
| | | | - | - — — | | | | | | | |
| | | | - | - — — | | | | | | | |
| | | | - | - — — | | | | | | | |
| | | | | | | | | | | | |
| pe: C= C | oncentration, D=Depl | etion, RM= | Reduced Ma | trix, CS=Covered or Coated Sa | and Grains. ² Lo | cation: PL=P | ore Lining, M=N | ∕latrix | | | |
| • | Indicators: (Applical | - | | • | | | tors for Proble | | dric Sc | oils³: | |
| Histos | | | | Sandy Redox (S5) | | _ | 2 cm Muck (A1 | _ | | | |
| | Epipedon (A2) | | | Stripped Matrix (S6) | | | Red Parent Ma | • | 2) | | |
| | Histic (A3) | | | Loamy Mucky Mineral (F1) | (except MLRA 1) | | Very Shallow D | - | • | 12) | |
| | gen Sulfide (A4) | | | Loamy Gleyed Matrix (F2) | , | _ | Other (Explain | | | , | |
| - | ed Below Dark Surfac | ce (A11) | | Depleted Matrix (F3) | | _ | - () | | , | | |
| - | Dark Surface (A12) | , | | Redox Dark Surface (F6) | | | | | | | |
| | Mucky Mineral (S1) | | _ | Depleted Dark Surface (F7) |) | ³ Indica | itors of hydroph | ytic veget | ation a | nd | |
| = | Gleyed Matrix (S4) | | | Redox Depressions (F8) | • | | land hydrology ess disturbed or | | | | |
| | Layer (if present): | | | 1 (-7) | | unie | ess disturbed of | problema | auc. | | |
| oe: | , , | | | | | | | | | | |
| pth (inche | | | | | Hydric Soils P | resent? | | Yes | | No | D |
| marks: | no redoximorphic fe | atures | | | | | | | | | |
| DROLOG | e Y | atures | | | | | | | | | |
| DROLOG | SY drology Indicators: | | | | | Sacanda | nu Indiantora (| | | ٦) | |
| DROLOG otland Hyd mary Indic | iY drology Indicators: cators (minimum of or | | | | | | ary Indicators (2 | | | d) | |
| DROLOG etland Hyd mary India Surfac | drology Indicators: cators (minimum of or we Water (A1) | | l; check all tha | Water-Stained Leaves (B9) | | ☐ Wa | ater-Stained Le | aves (B9) | | d) | |
| OROLOG etland Hyd mary India Surfac High N | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) | | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and | | □ Wa | ater-Stained Le | aves (B9) and 4B) | | d) | |
| PROLOG etland Hyr mary Indio Surfac High V | drology Indicators: cators (minimum of or ce Water (A1) Nater Table (A2) ation (A3) | | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) | d 4B) | ☐ Wa | ater-Stained Lea ILRA 1, 2, 4A, a ainage Patterns | aves (B9) and 4B) s (B10) | • | d) | |
| PROLOG etland Hyd mary Indio Surfac High V Satura Water | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) | | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, an Salt Crust (B11) Aquatic Invertebrates (B13) | d 4B) | Wa (M Dra | ater-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate | aves (B9) and 4B) s (B10) er Table (C | C2) | • | |
| DROLOG etland Hyd mary India Surfac High V Satura Water Sedim | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) | | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) | d 4B) | ☐ Wa (M ☐ Dra ☐ Dra ☐ Sa | ater-Stained Lealing ILRA 1, 2, 4A, a rainage Patterns y-Season Wate aturation Visible | aves (B9) and 4B) s (B10) er Table (C on Aerial | C2) | • | |
| DROLOG etland Hym mary Indio Surfac High V Satura Water Sedim Drift D | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) tent Deposits (B2) | | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, an Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor | d 4B)) ng Living Roots (C3) | ☐ Wa (M ☐ Dra ☐ Dra ☐ Sa ☐ Ge | ater-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate attration Visible ecomorphic Posit | aves (B9) and 4B) s (B10) er Table (C on Aerial tion (D2) | C2) | • | |
| PROLOG etland Hymary Indio Surfac High V Satura Water Sedim Drift D | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) deposits (B3) Mat or Crust (B4) | | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (| d 4B)) ng Living Roots (C3) | Wa (M Dra Dra Dry Sa Sh | atter-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate attration Visible ecomorphic Posit nallow Aquitard | aves (B9) and 4B) s (B10) r Table (C on Aerial tion (D2) (D3) | C2) | • | |
| DROLOG etland Hyd mary Indic Surfac High V Satura Water Sedim Drift D Algal I | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) | | 0 | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Til | d 4B)) ng Living Roots (C3) (C4) Illed Soils (C6) | Wa | atter-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate attration Visible eomorphic Posit hallow Aquitard | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) | (2) Imagel | • | |
| DROLOG etland Hyd mary India Surface High N Satura Water Sedim Drift D Algal I Iron D Surface | drology Indicators: cators (minimum of or ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) tent Deposits (B2) deposits (B3) Mat or Crust (B4) deposits (B5) de Soil Cracks (B6) | ne required | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Till Stunted or Stresses Plants | d 4B) ng Living Roots (C3) (C4) Illed Soils (C6) (D1) (LRR A) | Wa (M) Dra Dra Sa Sa Sh FA | ater-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate aturation Visible eomorphic Posit hallow Aquitard aC-Neutral Test aised Ant Mound | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) ds (D6) (L | C2) Imagei | • | |
| DROLOG etland Hyd mary India Surfac High N Satura Water Sedim Drift D Algal I Iron D Surfac Inunda | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) deposits (B3) Mat or Crust (B4) deposits (B5) de Soil Cracks (B6) ation Visible on Aerial | ne required | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Til | d 4B) ng Living Roots (C3) (C4) Illed Soils (C6) (D1) (LRR A) | Wa (M) Dra Dra Sa Sa Sh Sh Ra | atter-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate attration Visible eomorphic Posit hallow Aquitard | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) ds (D6) (L | C2) Imagei | • | |
| DROLOG etland Hy mary Indic Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda | drology Indicators: cators (minimum of or ce Water (A1) Vater Table (A2) ation (A3) Marks (B1) tent Deposits (B2) deposits (B3) Mat or Crust (B4) teposits (B5) ce Soil Cracks (B6) ation Visible on Aerial | ne required | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Till Stunted or Stresses Plants | d 4B) ng Living Roots (C3) (C4) Illed Soils (C6) (D1) (LRR A) | Wa (M) Dra Dra Sa Sa Sh FA | ater-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate aturation Visible eomorphic Posit hallow Aquitard aC-Neutral Test aised Ant Mound | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) ds (D6) (L | C2) Imagei | • | |
| PROLOG etland Hymary Indice Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars | drology Indicators: cators (minimum of or ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) deposits (B3) Mat or Crust (B4) deposits (B5) de Soil Cracks (B6) ation Visible on Aerial dely Vegetated Concavivations: | ne required | | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Till Stunted or Stresses Plants (Other (Explain in Remarks) | d 4B) ng Living Roots (C3) (C4) Illed Soils (C6) (D1) (LRR A) | Wa (M) Dra Dra Sa Sa Sh FA | ater-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate aturation Visible eomorphic Posit hallow Aquitard aC-Neutral Test aised Ant Mound | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) ds (D6) (L | C2) Imagei | • | |
| DROLOG etland Hyd mary Indic Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Spars | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) deposits (B3) Mat or Crust (B4) deposits (B5) de Soil Cracks (B6) ation Visible on Aerial dely Vegetated Concavivations: er Present? Ye | Imagery (live Surface | B7) | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alore Presence of Reduced Iron (Recent Iron Reduction in Till Stunted or Stresses Plants (Other (Explain in Remarks) | d 4B) ng Living Roots (C3) (C4) Illed Soils (C6) (D1) (LRR A) | Wa (M) Dra Dra Sa Sa Sh FA | ater-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate aturation Visible eomorphic Posit hallow Aquitard aC-Neutral Test aised Ant Mound | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) ds (D6) (L | C2) Imagei | • | |
| DROLOG etland Hyr mary India Surface High N Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars eld Obser rface Water | drology Indicators: cators (minimum of or ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) deposits (B3) Mat or Crust (B4) deposits (B5) de Soil Cracks (B6) ation Visible on Aerial dely Vegetated Concave vations: er Present? Ye Present? Ye | Ilmagery (leve Surface | B7) | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Till Stunted or Stresses Plants (Other (Explain in Remarks) | d 4B) ing Living Roots (C3) (C4) Illed Soils (C6) (D1) (LRR A) | Wa (M) Dra Dra Sa Sh FA | atter-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate aturation Visible ecomorphic Posit hallow Aquitard AC-Neutral Test aised Ant Mound ost-Heave Hum | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) ds (D6) (L mocks (D | RR A) | ry (C9) | |
| DROLOG etland Hyd imary Indic Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars eld Obser urface Water ater Table turation P cludes cap | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) deposits (B3) Mat or Crust (B4) deposits (B5) de Soil Cracks (B6) ation Visible on Aerial dely Vegetated Concavivations: er Present? Present? Ye resent? Ye resent? | Imagery (leve Surface | B7) | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alore Presence of Reduced Iron (Recent Iron Reduction in Till Stunted or Stresses Plants (Other (Explain in Remarks) Depth (inches): Depth (inches): | d 4B) ng Living Roots (C3) (C4) Illed Soils (C6) (D1) (LRR A) We | Wa (M) Dra Dra Sa Sh FA | ater-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate aturation Visible eomorphic Posit hallow Aquitard aC-Neutral Test aised Ant Mound | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) ds (D6) (L mocks (D | C2) Imagei | • | 0 |
| DROLOG etland Hyd imary Indic Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars eld Obser urface Water ater Table turation P cludes cap | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) deposits (B3) Mat or Crust (B4) deposits (B5) de Soil Cracks (B6) ation Visible on Aerial dely Vegetated Concavivations: er Present? Present? Ye resent? Ye resent? | Imagery (leve Surface | B7) | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alor Presence of Reduced Iron (Recent Iron Reduction in Till Stunted or Stresses Plants of Other (Explain in Remarks) Depth (inches): | d 4B) ng Living Roots (C3) (C4) Illed Soils (C6) (D1) (LRR A) We | Wa (M) Dra Dra Sa Sh FA | atter-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate aturation Visible ecomorphic Posit hallow Aquitard AC-Neutral Test aised Ant Mound ost-Heave Hum | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) ds (D6) (L mocks (D | RR A) | ry (C9) | 0 |
| DROLOG etland Hyr mary Indic Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Spars eld Obser rface Wat ater Table turation P cludes cap | drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) deposits (B3) Mat or Crust (B4) deposits (B5) de Soil Cracks (B6) ation Visible on Aerial dely Vegetated Concavivations: er Present? Present? Ye resent? Ye resent? | Imagery (leve Surface | B7) | Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres alore Presence of Reduced Iron (Recent Iron Reduction in Till Stunted or Stresses Plants (Other (Explain in Remarks) Depth (inches): Depth (inches): | d 4B) ng Living Roots (C3) (C4) Illed Soils (C6) (D1) (LRR A) We | Wa (M) Dra Dra Sa Sh FA | atter-Stained Lea ILRA 1, 2, 4A, a ainage Patterns y-Season Wate aturation Visible ecomorphic Posit hallow Aquitard AC-Neutral Test aised Ant Mound ost-Heave Hum | aves (B9) and 4B) s (B10) or Table (C on Aerial tion (D2) (D3) (D5) ds (D6) (L mocks (D | RR A) | ry (C9) | 0 |

| Project Site: <u>Parcel 722980-0360, -0365</u> | | | City/Count | ty: <u>/King</u> | Sampling Date: | <u>8-9-24</u> | |
|--|----------------------|-----------------|----------------|--|------------------------------|---------------|-------------|
| Applicant/Owner: <u>Ghag</u> | | | | State: WA | Sampling Point: | <u>DP#4</u> | |
| Investigator(s): <u>John Altmann, Dain Altmann</u> | | | | Section, Township, Rang | ge: <u>S13,T23N,R5E</u> | | |
| Landform (hillslope, terrace, etc.): gentle slope | | Local | relief (conca | ave, convex, none): <u>concave</u> | Slope | (%): | |
| Subregion (LRR): <u>A</u> | Lat: 47.47 | <u> 19805</u> | | Long: <u>-122.11454</u> | Datum: | | |
| Soil Map Unit Name: AgC | | | | NWI clas | sification: | | |
| Are climatic / hydrologic conditions on the site typical for | r this time of y | ear? Ye | es 🛛 | No 🔲 (If no, explain i | n Remarks.) | | |
| Are Vegetation ☐, Soil ☐, or Hydrology | ☐, significa | antly disturbed | ? Are "N | Normal Circumstances" present? | Yes | ☑ No | |
| Are Vegetation ☐, Soil ☐, or Hydrology | □, naturall | y problematic? | (If nee | eded, explain any answers in Re | marks.) | | |
| | | | | | | | |
| SUMMARY OF FINDINGS – Attach site map sl | nowing sam | pling point | locations, | transects, important featu | res, etc. | | |
| Hydrophytic Vegetation Present? | Yes 🗌 | No 🛛 | | | | | |
| Hydric Soil Present? | Yes 🗌 | | Is the Samp | | Yes | □ No | |
| Wetland Hydrology Present? | Yes 🗌 | No 🛛 | within a We | nano r | | | |
| Remarks: Upland plot, see map for location. | | | | | | | |
| Themains. Opiana plot, see map for location. | | | | | | | |
| | | | | | | | |
| VEGETATION – Use scientific names of plants | | | | | | | |
| Tree Stratum (Plot size: 10') | Absolute | Dominant | Indicator | Dominance Test Worksheet | : | | |
| 1. Acer macrophyllum | <u>% Cover</u> 90 | Species? | Status FACU | | | | |
| 2 | <u>30</u> | <u>yes</u> | <u>1 ACC</u> | Number of Dominant Species That Are OBL, FACW, or FAC | | | (A) |
| 3 | | | | | | | |
| | | | | Total Number of Dominant Species Across All Strata: | <u>6</u> | | (B) |
| 4 | | | | | | | |
| 50% = 45, 20% = 18 | <u>90</u> | = Total Cove | Г | Percent of Dominant Species That Are OBL, FACW, or FAC | . <u>16</u> | | (A/B) |
| Sapling/Shrub Stratum (Plot size: 10') | 00 | | NII (LIDIL) | | | | |
| 1. Prunus lusitanica | <u>20</u> | <u>yes</u> | NL (UPL) | Prevalence Index worksheet | | v bv: | |
| 2. Acer circinatum | <u>20</u> | <u>yes</u> | FAC | Total % Cover of | | <u>у Бу:</u> | |
| 3. <u>Oemleria cerasiformis</u> | <u>10</u> | <u>ves</u> | <u>FACU</u> | OBL species | x1 = | | |
| 4 | | | _ | FACW species | x2 = | | |
| 5 | | | | FAC species | x3 = | | |
| 50% = <u>25,</u> 20% = <u>10</u> | <u>50</u> | = Total Cove | r | FACU species | x4 = | | |
| Herb Stratum (Plot size: 10') | | | | UPL species | x5 = | | |
| 1. <u>Polystichum munitum</u> | <u>10</u> | <u>yes</u> | <u>FACU</u> | Column Totals: | _ (A) | - | (B) |
| 2 | | | | Prevalence | e Index = B/A = | | |
| 3 | | | | Hydrophytic Vegetation Indi | cators: | | |
| 4 | | | | ☐ 1 – Rapid Test for Hydro | phytic Vegetation | | |
| 5 | | | | ☐ 2 - Dominance Test is > | 50% | | |
| 6 | | | | ☐ 3 - Prevalence Index is | <u>≤</u> 3.0¹ | | |
| 7 | | | | 4 - Morphological Adapt | - ations¹ (Provide suppor | tina | |
| 8 | | | | data in Remarks or o | | 9 | |
| 9 | | | | 5 - Wetland Non-Vascul | ar Plants ¹ | | |
| 10. | | | | ☐ Problematic Hydrophytic | Vegetation1 (Explain) | | |
| 11. | | | | | r vegetation (Explain) | | |
| 50% = 5, 20% = 2 | 10 | = Total Cove | | ¹ Indicators of hydric soil and w | | | |
| Woody Vine Stratum (Plot size: 10') | 10 | - 10tal 00VC | • | be present, unless disturbed of | r problematic. | | |
| 1. Rubus ursinus | 00 | 1/00 | EACH | | | | |
| | <u>90</u> | <u>yes</u> | <u>FACU</u> | Hydrophytic | | | |
| 2 | | | | | res □ | No | \boxtimes |
| 50% = <u>45</u> , 20% = <u>18</u> | <u>90</u> | = Total Cove | Γ | Present? | | | |
| % Bare Ground in Herb Stratum | | | | | | | |
| Remarks: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 1 | | | | | | | |

| | cription: (Describe to | the dept | h needed to | document the indicator or co | onfirm the absence | of indicator | rs.) | | | | |
|---|--|-----------------------|------------------|---|---|--|--|--|--------------|----------|----|
| Depth | Matrix | · ····· ···· ···· | | Redox Features | | | ·., | | | | |
| nches) | Color (moist) | % | Color (m | | Loc ² | _ Texture | | R | emarks | | |
| <u>0-16</u> | 10YR5/4 | 100 | 111) 10100 | <u> </u> | | gravel loar | | | Ciliano | ' | |
| <u>0 10</u> | <u>101110/1</u> | 100 | | | | gravoriour | <u> </u> | | | | |
| | | | | · <u>—</u> — | - — | | | | | | |
| | | | | · <u>—</u> — | - — | | | | | | |
| | · | | | · <u>—</u> — | | | | | | | |
| | · | | | · <u>—</u> — | | | | | | | |
| | · | | | · <u>—</u> — | | | | | | | |
| | <u></u> | | | · <u>—</u> — | | | | | | | |
| pe: C= C | oncentration, D=Deple | etion, RM= | Reduced Ma | trix, CS=Covered or Coated Sa | and Grains. ² Lc | cation: PL=P | ore Lining, M= | =Matrix | | | |
| • | Indicators: (Applicat | - | | | | | tors for Probl | | ydric S | oils³: | |
| | ol (A1) | | | Sandy Redox (S5) | | | 2 cm Muck (A | | • | | |
| | Epipedon (A2) | | | Stripped Matrix (S6) | | | Red Parent M | | F2) | | |
| | Histic (A3) | | | Loamy Mucky Mineral (F1) | (except MLRA 1) | | Very Shallow | | - | 12) | |
| | gen Sulfide (A4) | | _ | Loamy Gleyed Matrix (F2) | , | | Other (Explain | | | , | |
| | ted Below Dark Surfac | ce (A11) | | Depleted Matrix (F3) | | _ | - (1 | | , | | |
| - | Dark Surface (A12) | , | | Redox Dark Surface (F6) | | | | | | | |
| | Mucky Mineral (S1) | | _ | Depleted Dark Surface (F7) | 1 | ³ Indica | ators of hydrop | hytic vege | etation a | ınd | |
| - | Gleyed Matrix (S4) | | | Redox Depressions (F8) | | | tland hydrology ess disturbed o | | | ί, | |
| <u>-</u> | Layer (if present): | | | 1 (-7 | | unit | ess disturbed t | or problem | iauc. | | |
| e: | , (p , | | | | | | | | | | |
| oth (inche | | | | | Hydric Soils P | resent? | | Yes | | No | |
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35030 SE Douglas St., Ste. 210 Snoqualmie, WA 98065-9266 **206-296-6600** TTY Relay: 711

www.kingcounty.gov

May 24, 2016

Ms. Tanya Tonnu 5100 NE 3rd Place Renton, WA 98059

RE: Critical Areas Designation, CADS16-0174, Parcel No. 7229800390 Status: Complete

Dear Ms. Tonnu:

Your property was reviewed for a Critical Areas Designation. Our review consisted of an in-office review of existing background data, and site visit. The result of our study is that we have determined your parcel is host to the critical areas discussed below. No specific impacts to development on your parcel have been discussed.

The determinations reported in this letter as to the existence, location, and classification of critical areas and critical area buffers are effective for five years from the date of this letter if there has been no change in site conditions. The Department of Permitting and Environmental Review (DPER) shall rely on these determinations of the existence, location and classification of critical areas and critical area buffers in its review of complete applications for permits or approvals filed for the subject development site or parcel within five years after the letter is issued. If you do not plan to develop your property soon after receiving this letter, it may be in your interest to contact us to see if any of the conclusions in this letter have changed or are no longer valid.

Wetlands (21A.24.318 to 21A.24.345)

Based on our review of the submitted report by Altman Oliver Associates, LLC dated April 22, 2106 staff concurs with your consultants wetland delineation and rating. Your parcel contains a Category IV wetland as shown on the site map. The buffer width for a Category IV wetland within the urban area would be 50-feet for residential development as shown on the site plan. Structures must honor an additional 15-foot building setback (BSBL) beyond the buffers. Within a currently undeveloped buffer, no development of any kind is usually allowed, including clearing, grading, or any other alteration of the existing vegetation.

CADS16-0174 May 24, 2016 Page 2 of 2

When you are applying to the Health Department for septic system design approval or water well site approval, please include a copy of this letter and any attachments with your application to them. Similarly, a copy should be included with any building permit application. For the site plan attached to this letter, note that the critical areas have not been surveyed precisely and that a detailed survey may be required in the future depending upon the nature of your development proposal.

The purpose of this review is to determine the approximate locations and classification of critical areas on your site that might affect a proposed development activity, and is not an approval of existing or proposed development. Additional reviews, including but not limited to drainage, clearing, grading, compliance with critical area codes, and fire flow may occur during the permit review process.

Please feel free to call me at 206-477-0301or email <u>nick.gillen@kingcounty.gov</u> if you have any questions.

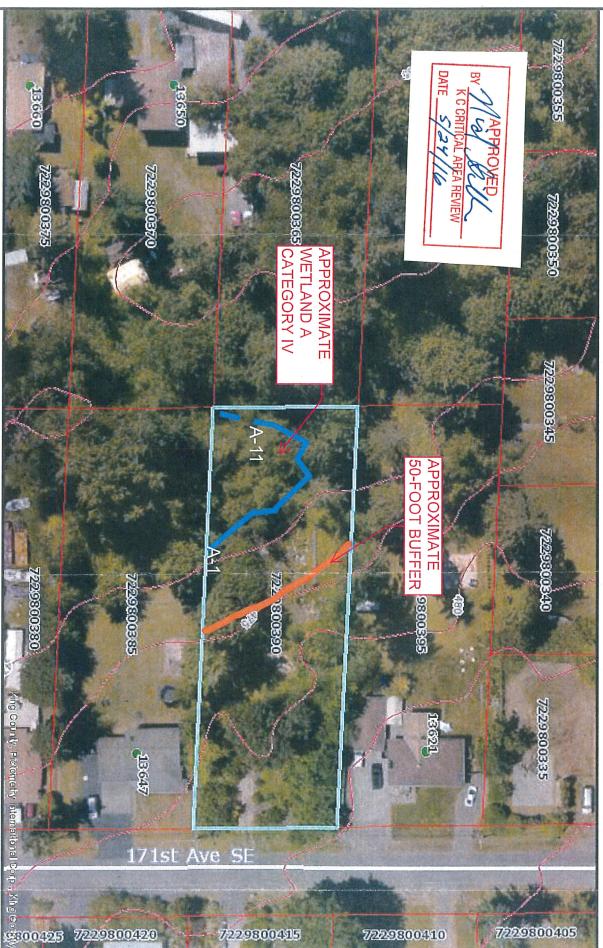
Sincerely,

Nick Gillen, Senior Ecologist Urban Product Line, DPER

Wiel Dill

Attachments: Critical Area map





The information included on this map has been compled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or wairanties, express or implied, as to accuracy, completeness, timefiness, or rights to the use of such information. This document is not intended for use as a survey product. King County shall not be lable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or bist 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.

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