

# **CRITICAL AREAS REPORT**

November 2024



NK United Kingston, Washington

Prepared for

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# **SIGNATURE PAGE**

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## Introduction

Ecological Land Services, Inc. (ELS) completed this Critical Areas Reconnaissance Report for the NK United project proposed on 400 acres that borders the east side of the Port Gamble Heritage Park (PGHP). The 400 acres are comprised of 20 properties ranging in size from 19.77 acres to 33.18 acres (Kitsap County Tax Parcel Nos. 192702-4-003-2001, -4-004-2000, -4-005-2009, -3-005-2008, 302702-1-013-2000, -1-012-2002, -1-011-2006, 302702-4-009-2000, -4-010-2007, -4-011-2006, -4-012-2005, 4-013-2004, -4-014-2003, -4-015-2002, -4-016-2001, -4-017-2000, and 312702-1-022-2008, -1-004-2000, -1-023-2007, 1-024-2006). These properties are in Section 19, 30, and 31, Township 27 North, Range 2 East of the Willamette Meridian. ELS biologists conducted a series of site reconnaissance site visits on October 10, 12, 18, 19, and 24, 2023.

## STUDY AREA DESCRIPTION

The roughly 400-acre study area is an active forestland composed mostly of unharvested coniferous forest with large areas of harvested forested upland located west of Stottlemeyer Road on the south half and Port Gamble Road on the north half. The Port Gamble Heritage Park lies across the entire west edge of the study area (Figure 2). The topography is composed of a high ridge on the west side that slopes moderately down to the east (Figure 2). There are ravines and topographic troughs that have formed in the east slope that end at the east boundary of the study area (Figures 2, 2a, 2b, and 2c). The east end of the property is essentially the bottom of the bowl that forms the west side of the Gamble Creek Valley, which is primarily east of Bond Road (SR 307).

Logging and service roads provide access to most of the study area and are drivable to a certain degree. Many of these roads have become little more than hiking trails that cross these properties, and several are continuation of trails on the Port Gamble Heritage Park. The properties are oriented north to south beginning at residentially developed lots on the north adjacent properties and ending at the Stottlemeyer trailhead, which lies at the south end. The orientation lends the study area designation for discussion of onsite conditions (Figure 2). There are three smaller segments that include:

- North Segment is at the north end and is located on the west and north sides of the excluded parcels to be used as a sand mine (Figure 2a). This area is primarily composed of unharvested upland forest with harvested forest (harvested in 2018, 2022, and 2023) areas at the north end. This portion borders Port Gamble Road and there is a service road entering near the northeast corner. This road represents access to the harvested areas and will be used as access to the sand mine properties. See Photoplates 8 and 9
- Central Segment is as the name implies in the central portion of the study area (Figure 2b). It is located south of the excluded sand mine properties and is west of homes along Port Gamble Road. The southeastern portion borders Bond Road and is accessed via a service road that is gated to prevent unauthorized access. Most of this segment is also composed of unharvested forest with harvested forest (harvested in 2018) in the southeastern portion. See Photoplates 5, 6, 7, and 9.
- South Segment is located at the south end and includes properties on both sides of Stottlemeyer Road and most of it is bordered by Bond Road on the east edge (Figure 2c). It includes an area east of Bond Road that is accessed from Stevens-Uhler Road. The

trailhead to the Port Gamble Heritage Park is located on the east side of Stottlemeyer Road. The trails in this segment cross mostly through unharvested forest with the area of harvested forest extending on the northeast corner where it is continuous with the harvested forest on the Central Segment. See Photoplates 1, 2, 3, and 4.

### **METHODOLOGY**

#### WETLAND IDENTIFICATION METHODOLOGY

The study area was evaluated for the presence of wetlands using the Routine Determination Method according to the U.S. Army Corps of Engineers' 1987 Wetland Delineation Manual and the Regional Supplement to the Corps of Engineers' Wetland Delineation Manual (Environmental Laboratory 1987); Western Mountains, Valleys, and Coast Region (Version 2.0) (Corps 2010). The Routine Determination Method and defining wetland criteria are discussed further in Appendix A. Wetlands are regulated as "Waters of the United States" by the U.S. Army Corps of Engineers (Corps) and as "Waters of the State" by the Washington Department of Ecology (Ecology), and locally by Kitsap County.

#### STREAM IDENTIFICATION METHODOLOGY

Streams are defined by the State of Washington as "...a) Any body of running water that moves under gravity to progressively lower levels, in a relatively narrow but clearly defined channel on the ground surface, in a subterranean cavern, or beneath or in a glacier and transports sediments and dissolved particles. b) A term used in quantitative geomorphology interchangeably with channel. c) A natural waterway that is defined as first to third order. d) (under the Shoreline Management Act) A naturally occurring body of periodic or continuous flowing water where: (1) The mean annual flow is greater than twenty cubic feet per second; and (2) The water is contained with a channel." (Anderson et. al. 2016).

The KCC Title 19 defines a stream as an "...an area where surface water flow is sufficient to produce a defined channel or bed. Such areas demonstrate evidence of the passage of water and included but are not limited to bedrock channels, gravel beds, sand and silt beds, and defined-channel swales. The channel or bed need not contain water throughout the year to be considered a stream."

The stream identification methodology was conducted by examining conditions within the mapped streams to determine if there were characteristics bed and banks that were present to indicate the action of waters are so common and usual, and so long continued in all ordinary years, as to mark upon the soil a character distinct from that of the abutting upland, in respect to vegetation. In essence, the presence of streams was determined by assessing three main criteria: 1) the presence or evidence of hydrology, 2) the soil, substrate, and/or geomorphological changes, and 3) changes in vegetation (Appendix B).

ELS conducted five site visits in October 2023 to ascertain whether streams were present within the areas mapped by various critical area mapping sources. Prior to conducting the site visit, ELS reviewed current and historic aerial photographs of the study area, and consulted online databases for soil, wetland, topography, priority habitat, and historic stream conditions. During the reconnaissance visits, ELS examined the mapped streams as well as the topographic indicators of

potential streams across the study area. As part of the reconnaissance, data and photos were collected in these locations to document conditions and confirm the absence of stream indicators including the lack of defined channels and banks, separated gravels indicating water flow, and dense upland plant species in each of the mapped streams. The data has been compiled onto data forms for the final report.

A wet weather review was initiated in late January 2024 to document conditions during the winter months when the mapped streams would most like contain water because of winter precipitation events. Site visits were conducted on January 31<sup>st</sup> in the South Segment, February 7<sup>th</sup> in the Central Segment, and February 21<sup>st</sup> in the North Segment. The mapped streams and areas that exhibit topographic indicators were visited and photos taken to document winter conditions particularly with regard to the presence of flowing water. There was no water, flowing through the mapped streams or within the areas where topography indicates possible presence of streams.

## **DATA COLLECTION OVERVIEW**

#### **VEGETATION**

#### UNHARVESTED FOREST AREAS

The forest that has not been harvested was dominated by Douglas fir (*Pseudotsuga menziesii*, FACU), western red cedar (*Thuja plicata*, FAC), western hemlock (*Tsuga heterophylla*, FACU), red alder (*Alnus rubra*, FAC), salmonberry (*Rubus spectabilis*, FAC), red elderberry (*Sambucus racemosa*, FACU), Oregon grape (*Mahonia nervosa*, FACU), salal (*Gaultheria shallon*, FAC), evergreen huckleberry (*Vaccinium ovatum*, FACU), holly (*Ilex aquifolium*, FACU), red huckleberry (*Vaccinium parvifolium*, FACU), sword fern (*Polystichum munitum*, FACU), stinging nettle (*Urtica dioica*, FAC), and trailing blackberry (*Rubus ursinus*, FACU). Most of the areas sampled within the unharvested forest were composed of bare ground beneath the dominant tree and/or shrub cover above. The vegetation dominance ranged from FAC to FACU with FACU species dominating throughout, including within the mapped stream areas. See Appendix A for plant indicator status definitions.

#### HARVESTED FOREST AREAS

The harvested areas were vegetated by a mixture of native and invasive plant species including Douglas fir saplings, salmonberry, scotch broom (*Cytisus scoparius*, FACU), red flowering currant (*Ribes sanguineum*, FACU), black cap (*Rubus leucodermis*, FACU), red huckleberry, bull thistle (*Cirsium vulgare*, FACU), hairy cat's ear (*Hypochaeris radicata*, FACU), common groundsel (*Senecio vulgaris*, FACU), sword fern, foxglove (*Digitalis purpurea*, FACU), fireweed (*Chamerion angustifolium*, FACU), trailing blackberry, Himalayan blackberry (*Rubus bifrons*, FAC), evergreen blackberry (*Rubus laciniatus*, FACU), velvet grass (*Holcus lanatus*, FAC), bedstraw (*Galium aparine*, FACU), pearly everlasting (*Anaphalis margaritacea*, FACU), wall lettuce (*Mycelis muralis*, NL), common nipplewort (*Lapsana communis*, FACU), bracken fern (*Pteridium aquilinum*, FACU), and lady fern (*Athyrium filix-femina*, FAC). These areas were dominated by similar species prior to the harvesting of the trees but had become dominated by a mixture of pioneer weed species along with native tree, shrub, and herbaceous species that were planted or recovering on their own. Most of the species in the harvested areas were species that grow predominantly within upland. The vegetation data collected throughout the NK United study rea revealed that there was no coverage by potential wetland plant species (OBL through FAC).

#### Soils

The Natural Resources Conservation Service (NRCS) maps the soils within the study area as (NRCS 2023A; Figure 3). Table 1 provides an overview of the soil types mapped on the study area along with whether they are hydric and the segments in which they are present.

Table 1. Web Soil Survey Mapping

Table 1. Web Son Survey Mapping		T	1	
Soil Map Unit	Hydric?	North Segment	Central Segment	South Segment
28 Kitsap silt loam, 2 to 8 percent slopes	No			X
29 Kitsap silt loam, 8 to 15 percent slopes	No		X	-
40 Poulsbo gravelly sandy loam, 6 to 15 percent slopes	No	X	X	X
43 Poulsbo-Ragnar complex, 6 to 15 percent	No	X		
44 Ragnar fine sandy loam, 0 to 6 percent slopes	No	X	X	1
45 Ragnar fine sandy loam, 6 to 15 percent slopes	No	X		X
46 Ragnar fine sandy loam, 15 to 30 percent slopes	No	X	X	X
47 Ragnar-Poulsbo complex, 15 to 30 percent slopes	No	X		X

- Kitsap formed on terraces from lacustrine depositions with volcanic ash in the upper part. Moderately well drained; depth to water table 18 to 30 inches.
- Poulsbo formed on terraces and moraines from basal till with volcanic ash in the upper part. They are moderately well drained with a water table between 12 and 30 inches below ground.
- Ragnar formed on terraces from glacial outwash with some volcanic ash in the upper part. Well drained; depth to water table more than 80 inches.
- Sinclair formed on till plains from basal till. Moderately well drained; depth to water table 18 to 29 inches.

These soil map units are not classified as hydric because they are moderately well to well drained and the depth to water table is below 18 inches.

## UNHARVESTED/HARVESTED FOREST AREAS

The soil data collected at the test plot locations within the ravines and mapped streams of both unharvested and harvested forest areas did not exhibit positive indicators for hydric soils. Two-, three- and four-layer soil profiles were revealed at the test plots in the unharvested areas of the NK United project site. In general, the soil data indicates the absence of hydric soil conditions because of the high matrix colors, the lack of redoximorphic features within depleted matrix colors, and soil textures. A thin layer of charcoal was observed in many of the soil profiles indicating historic logging activities and burning of slash.

#### Hydrology

Streams are natural bodies of water that move under gravity to progressively lower elevations and when periodic or continuous flowing water is present would exhibit a defined channel on the ground surface. A channel would also have sorted gravels and water flow would maintain openings in the culverts. Water was not present during the reconnaissance visits and there was no evidence of periodic flowing water based on the absence of defined channels, sorted gravels, and riparian plant communities.

Culverts were observed under most of the logging and service roads throughout the NK United project site with some under Stottlemeyer and Bond Roads as well. The culverts observed were either half full of sediment or were fully open with no evidence of recent water flow (Photoplate 10). Based on the condition of these culverts, water does not travel within the mapped streams or within the culverts, which further supports the absence of streams as mapped throughout or indicated by topography.

## WET WEATHER REVIEW

ELS biologists conducted a series of site visits during the months of January and February 2024 to document conditions within the mapped streams and the areas where topography indicates potential water flow. Each of the segments described previously were examined during the winter months to determine if water was present or if there were indicators of water flow. The visits were conducted after days of relatively heavy precipitation within one week prior to the visit. Photos were taken to verify the conditions observed during each site visit.

The site visits were generally scheduled following periods of heavy precipitation in order to observe conditions when water would most likely be present. Table 3 presents an overview of the precipitation levels and results. The precipitation levels are provided only to demonstrate the amount experienced during January and February 2024 and are not provided to demonstrate drought or excess water conditions.

**Table 3. Wet Weather Review Results** 

Site Visit	Precipitation <sup>1</sup>				
Date	Segment			Observations	
Date		Poulsbo	Bremerton		
1/30/24	South	6.69 (1.31" on	11.19 (1.58" on	1. Water was not observed in any of the mapped streams or where topographic	
		1/28/24)	1/29/24)	indicators were present.	
		1/20/24)	1/29/24)	2. There was no evidence of water flow in any location observed during the field	
				visit.	
				3. Conditions at the culvert locations	
				have not changed, indicating that water	
				has not flowed through them in the	
0.17.10.4	G . 1	7.0( (X/TD)	11 (7 (VITD)	recent past.	
2/7/24	Central	7.26 (YTD)	11.67 (YTD)	1. Water was not observed in any of the mapped streams or where topographic	
				indicators were observed.	
				2. There was no evidence of water flow in any location during the field visit.	
2/21/24	North <sup>2</sup>	8.65" (YTD)	13.9" (YTD)	1. Water was not observed in the	
2/21/24	INOLUI	3.6" of snow	13.9 (11D)	mapped streams or where topographic	
		on 2-15-24		indicators were observed.	
				2. There was no evidence of water flow	
				in any location during the field visit.	
				3. There was some overlap with north	
				end of the Central Segment, which	
				confirmed the findings of 2/7/24 in	
				several locations.	

<sup>&</sup>lt;sup>1</sup>Precipitation data from NOWData-NOAA Online Weather Data (NOAA 2024). The Poulsbo and Bremerton weather stations are closest to the NK United project site and are both presented to document the highest and lowest occurring within Kitsap County during the January and February site visits.

# CRITICAL AREA INVENTORIES<sup>1</sup>

### NATIONAL WETLANDS INVENTORY

The U.S. Fish and Wildlife Services (USFWS) National Wetlands Inventory (NWI 2024) indicates multiple riverine wetlands (streams) across each of the NK United segments (Figure 5). The critical areas reconnaissance revealed that while topography indicated potential presence of these streams, no evidence of water flow was observed during the fall and winter site reviews conducted in 2023 and 2024. The NWI does not map the wetland identified near the south end of the North Segment because of its small size and the dense conifer forest that obscures it from aerial

<sup>&</sup>lt;sup>2</sup>The North Segment includes areas harvested in October 2023 (was being harvested during October 2023 ELS site visits). Water was observed in areas where equipment had been staged and small depressions had formed during the most recent harvest. The roadside ditches contained water as well. There was no indication of natural stream drainages in this segment.

<sup>&</sup>lt;sup>1</sup> The critical areas maps should be used with discretion because they are used to gather general wetland and stream information about a regional area and therefore are limited in accuracy for smaller areas because of their large scale.

interpretation. Therefore, the reconnaissance conducted by ELS does not agree with the mapping of riverine wetlands on the NWI.

#### WASHINGTON STATE AND KITSAP COUNTY CRITICAL AREAS INVENTORIES

Table 2 lists the critical areas appearing on Washington state and Kitsap County critical areas mapping sources within the three segments of NK United. Online maps were obtained from the websites of the Washington Department of Fish and Wildlife (2023), Washington State Department of Natural Resources (2023), Statewide Washington Integrated Fish Distribution (2023), and the Kitsap County GIS Critical areas mapping (2023). The table lists streams and wetlands in each segment as mapped by the websites. As noted below, the Washington Department of Fish and Wildlife and Statewide Integrated Fish Distribution maps show the same streams, and the Washington Department of Natural Resources and Kitsap County maps show the same streams. None of the maps indicated wetlands.

Table 2. Critical Areas Mapping

Table 2. Citical Areas Ma	North Segment	Central Segment	South Segment			
Kitsap County Critical Areas (Figure 6)						
Streams	Type N	Type F (2)	Type F (1)			
		Type N (2)	Type N (2)			
		Unknown (3)	Unknown (1)			
Wetlands	None	None	None			
Washington Department of Fish and Wildlife						
Pi	ciority Habitats and S	Species (Figure 7)				
		Type F (mostly				
Streams	Type N	across the excluded	None			
		properties)				
Wetlands	None	None	None			
Wash	Washington Department of Natural Resources,					
Forest P	Forest Practices Application Mapping Tool (Figure 8)					
		Type F (2)	Type F (1)			
Streams	None	Type N (2)	Type N (2)			
		Unknown* (3)	Unknown (1)			
Wetlands	None	None	None			
Statewide Washington Integrated Fish Distribution (Figure 9)						
		Type F (same				
Streams	None	mapping as WDFW	None			
		PHS map)				
Wetlands	None	None	None			

<sup>\*</sup>Unknown streams are denoted on the maps as a dashed line or with a U.

The ELS critical areas reconnaissance revealed the absence of streams, which disagrees with the online maps showing multiple streams. The lack of wetlands on the map was also in disagreement with the ELS findings of a small wetland in the south half of the North Segment.

## **CRITICAL AREAS OVERVIEW**

## WETLANDS

Wetlands were not observed on most of the study area because as revealed at the test plots, the vegetation was dominated by upland species (FACU to UPL), the soils did not exhibit hydric soil characteristics, and there was no hydrology or evidence of wetland hydrology. A single wetland was found in the north segment lying adjacent to a service road (Figure 2a). This wetland was not formally delineated but was determined to be a wetland because of the dominance by wetland plant species (OBL, FACW, and FAC) species. Hydrology was also observed within the wetland. The wetland will be delineated during the critical area delineation phase of the project. The absence of wetlands on the study area is also consistent with the geologic reconnaissance, which indicated the presence of highly permeable soils that facilitate percolation rather than detention/retention of water.

## WETLAND CATEGORIZATION AND REQUIRED BUFFER

The wetland was rated according to *Washington State Wetland Rating System for Western Washington-Version 2, July 2023* (Rating System) (Hruby and Yanke 2023) based on functions (Appendix D and Rating Figures D-1, D-2, and D-3). Wetland A is within a shallow depression and is composed of a scrub-shrub community. This wetland has a seasonally flooded hydroperiod and outlets into a ditch along the adjacent trail/path. Wetland A meets the criteria for Category IV scoring a total of 15 points on the rating form.

Kitsap County Code (KCC) Section 19.200.220, Table 19.200.220c, outlines buffer requirements based on the wetland categorization, the score for habitat functions, and the proposed land use intensity. This wetland, which is 4,889 square feet in size, is a Category IV, which requires a buffer of 40 feet for moderate intensity land uses and 50 feet for high intensity land uses. A 50-foot buffer is mapped on Figure 2a and assumes a high intensity land use due to the proposed rezone and future development.

#### WATER TYPING

The Kitsap County GIS, WDNR, WDFW Priority Habitats and Species, and SWIFD maps indicate the presence of Type F and Type N waters in the three segments of NK United. The maps also show potential streams as dashed lines (unknown, unmodeled hydrographic feature) in several locations, several of which have upslope Type F stream designations (Figure 6). A Type F stream is mapped along the north edge of the South Segment, on the narrow strip in the east side of the South Segment, and above the unknown/unmodeled streams in the North Segment. Type N streams are mapped across the east half of the Central Segment. These water type designations for the mapped streams are not accurate because no streams were identified in these areas or in unmapped topographic troughs and ravines.

A water type modification to remove the streams from the critical areas maps will be prepared as part of the next phase of the critical areas reconnaissance. The modification forms to be filled out will be reviewed by the Washington Department of Natural Resources, Washington Department of Fish and Wildlife, the Suquamish Indian Tribe, and Kitsap County Department of Community development. These agencies will conduct field visits to confirm the absence of the mapped streams.

#### **STREAMS**

The critical areas maps obtained for this project including the Kitsap County GIS map indicate the presence of a number of streams within the study area. These streams have been mapped because of ravines that run from west to east down the east facing slopes of the study area. However, upon examination, none of these mapped streams met the definition of a stream in Kitsap County Code, Section 19.150.650<sup>2</sup>. During the reconnaissance, streams were not observed and are not present as mapped because:

- There were no defined-channel swales or defined banks in any of the ravines to indicate periodic water flow at any time of the year.
- There were no bedrock channels, gravel beds, or sand and silt beds observed within any of the mapped streams.
- The absence of water flow is further indicated by the culverts that are half filled with soil culverts under the onsite logging and service roads and Stottlemeyer Road.
- The mapped stream and topographic ravines contained dense groundcover vegetation that would not be present if there was water flow at any time of the year.
- The observation of no surface water channels or streams is consistent with the geologic investigation performed for the study area that has indicated the presence of highly permeable soils that quality the area as a critical aquifer recharge area.

## AGENCY REVIEW

Several site visits were conducted with local tribal biologists and a Kitsap County environmental planner on May 10, June 26, and July 12 of 2024. Attending these site visits were:

- Rod Malcolm, Suquamish Indian Tribe
- Marla Powers, Port Gamble/S'Klallam Tribe
- Cynthia Rossi, Point No Point Treaty Council
- Steve Heacock, Kitsap County Department of Community Development
- Sarah Steffen, Raydient
- Jon Rose, Raydient
- Joanne Bartlett, Ecological Land Services.

During these visits, the ELS biologist provided a tour of the mapped streams and those areas where topography indicated possible presence of streams in each segment, to provide them an opportunity to confirm the findings of no streams within the project site. The tribal biologists were able to visually document the absence of defined channels and sorted gravels within the mapped streams and the dense vegetation in the topographic troughs indicating the absence of flowing water. They were also able to review culverts under Stottlemeyer and Bond Roads, as well as under most of the logging roads. Most of the culverts were half full of sediment, indicating the absence of regular surface water flow. The tribal biologists have yet to provide confirmation of the ELS findings of

<sup>&</sup>lt;sup>2</sup> KCC Section 19.150.600 stream definition "Streams mean those areas in Kitsap County where the surface water flows are sufficient to produce a defined channel or bed. A defined channel or bed is an area which demonstrates clear evidence of the passage of water and includes but is not limited to bedrock channels, gravel beds, sand and silt beds, and defined-channel swales. The channel or bed need not contain water year-round. This definition is not meant to include irrigation ditches, canals, storm or surface water runoff devices or other artificial watercourses unless they are used by fish or used to convey streams naturally occurring prior to construction.

no streams on the NK United project site and they are expected to comment further upon the review of this report.

## **LIMITATIONS**

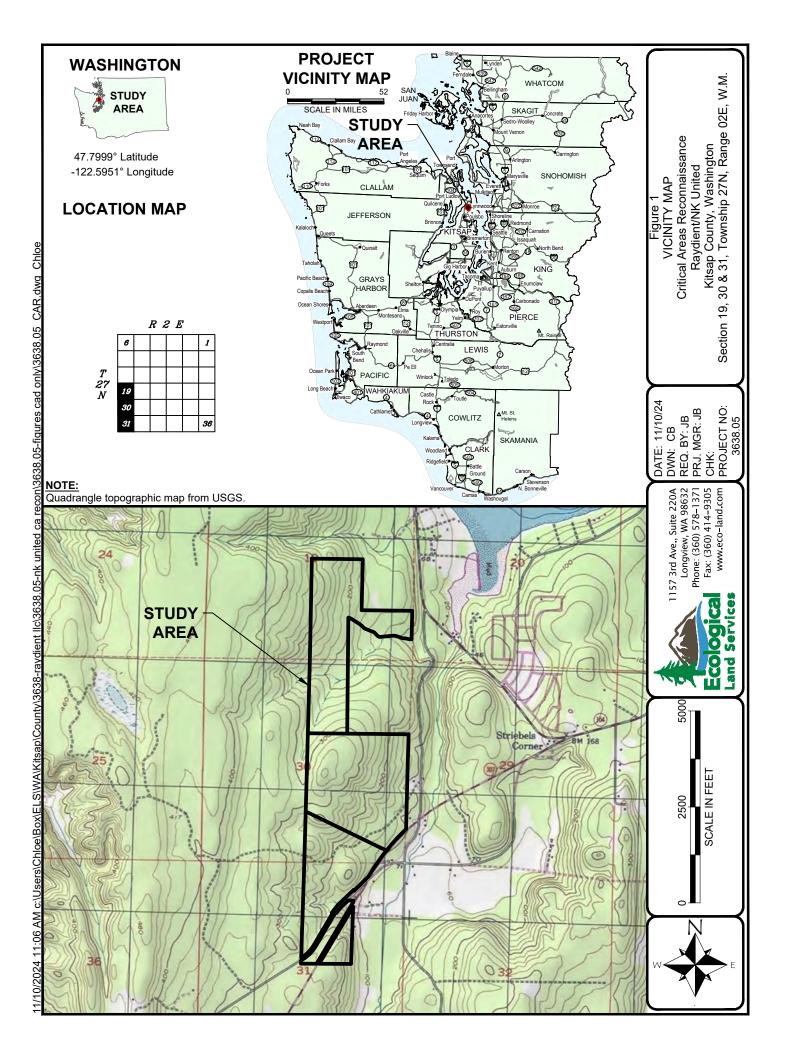
ELS bases this report's determinations on standard scientific methodology and best professional judgment. In our opinion, local, state, and federal regulatory agencies should agree with our determinations. However, the information contained in this report should be considered preliminary and used at your own risk until it has been approved in writing by the appropriate regulatory agencies. ELS is not responsible for the impacts of any changes in environmental standards, practices, or regulations after the date of this report.

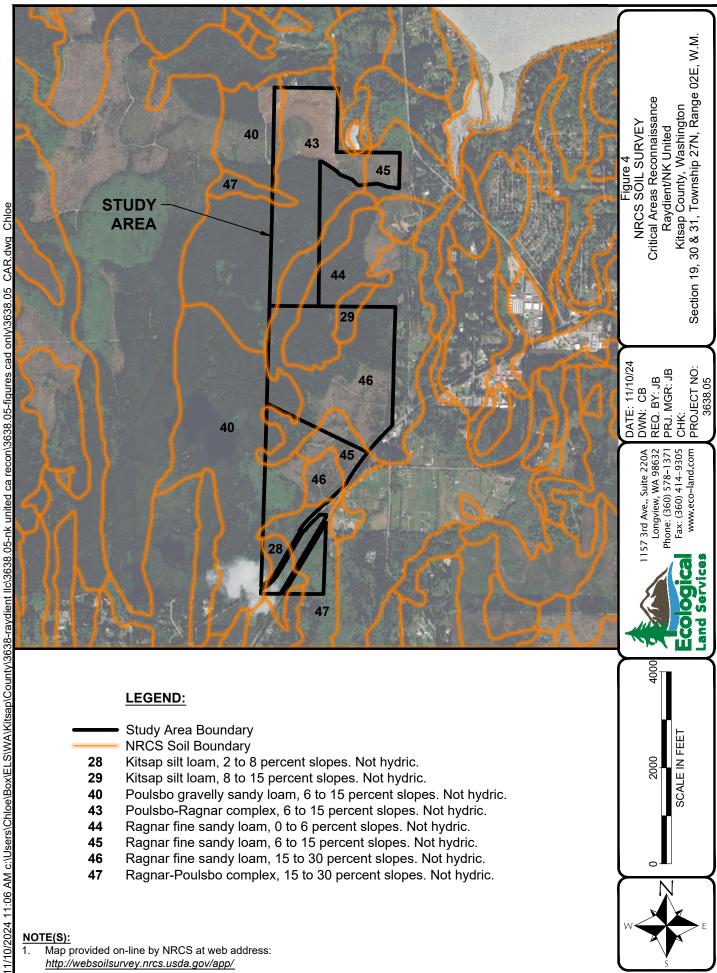
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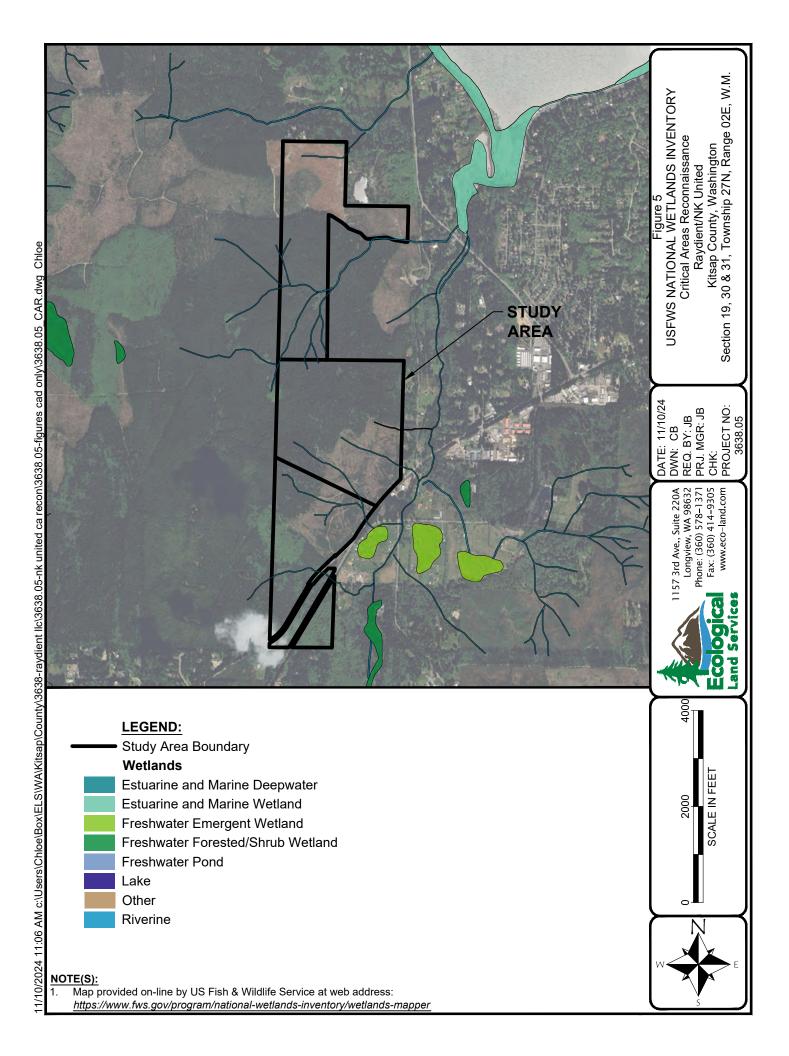
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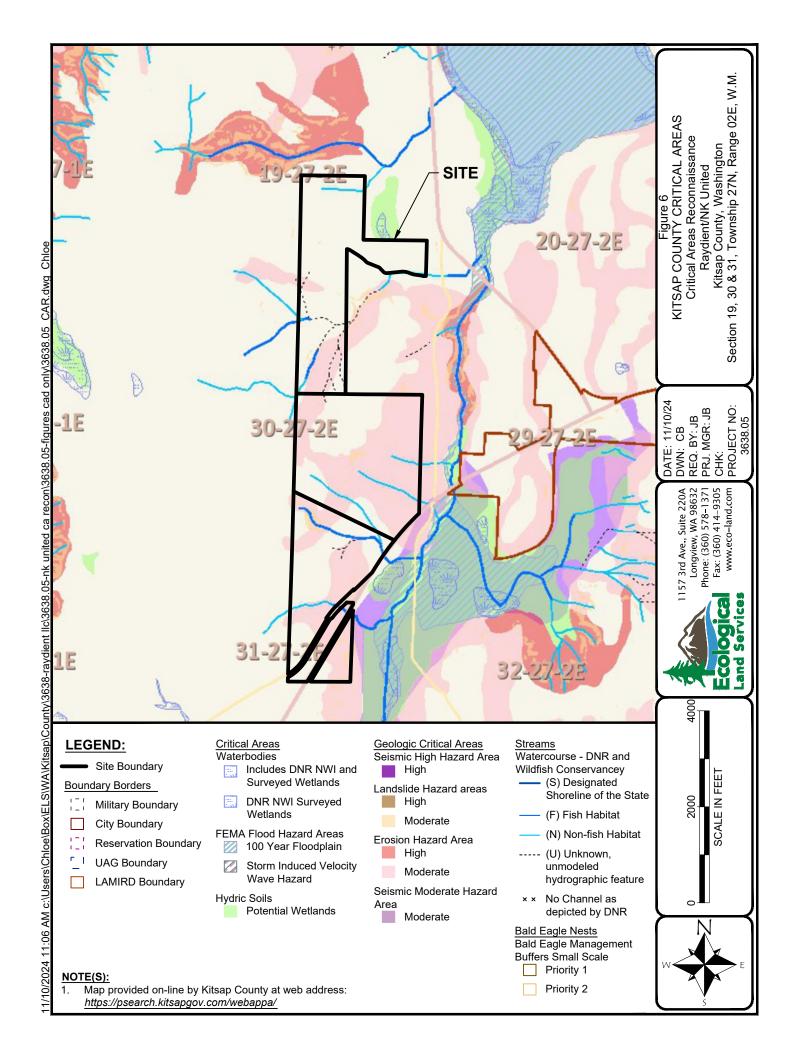
# FIGURES AND PHOTOPLATES

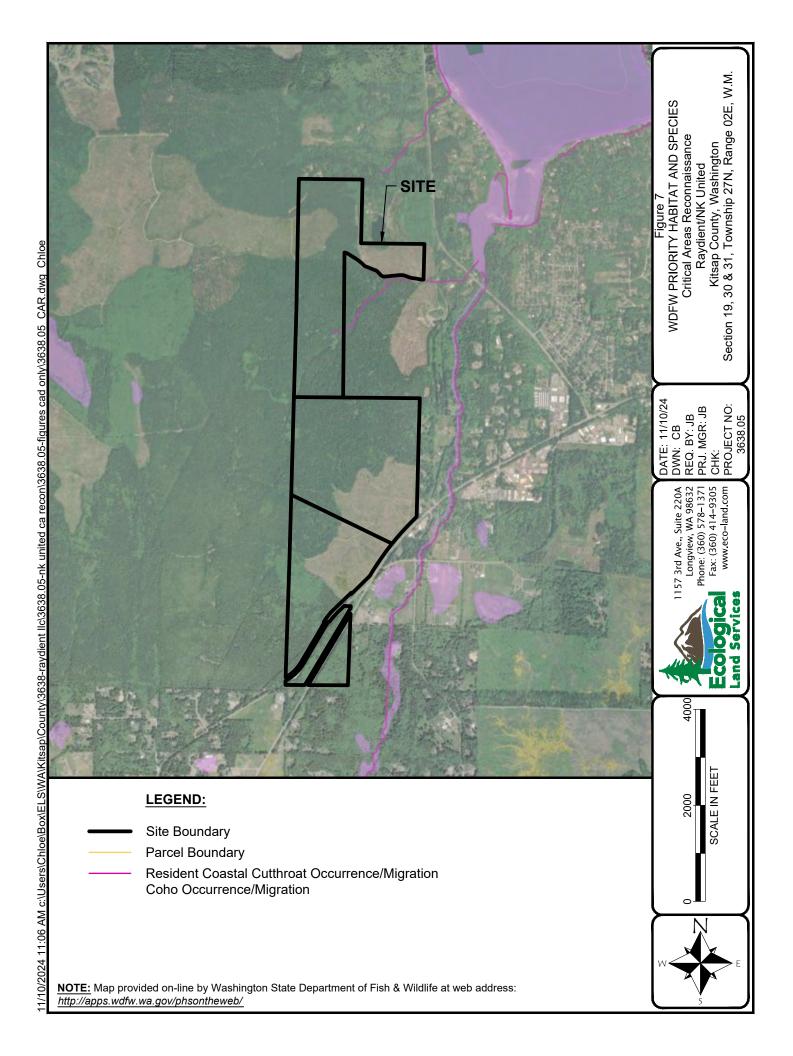


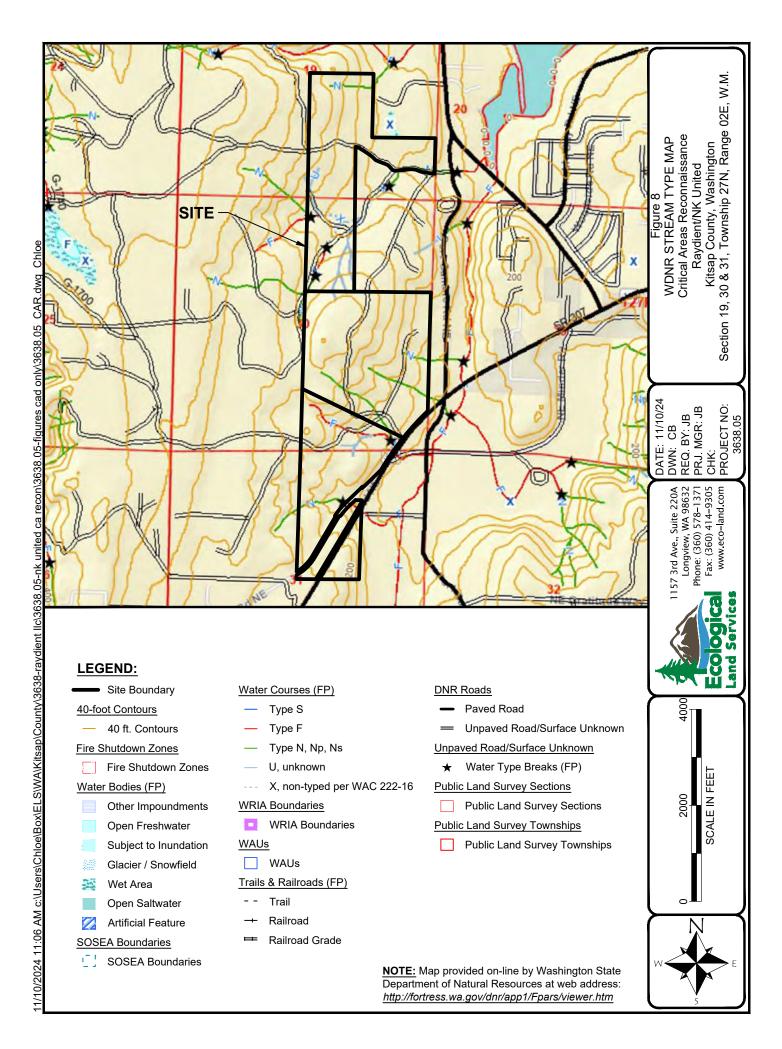


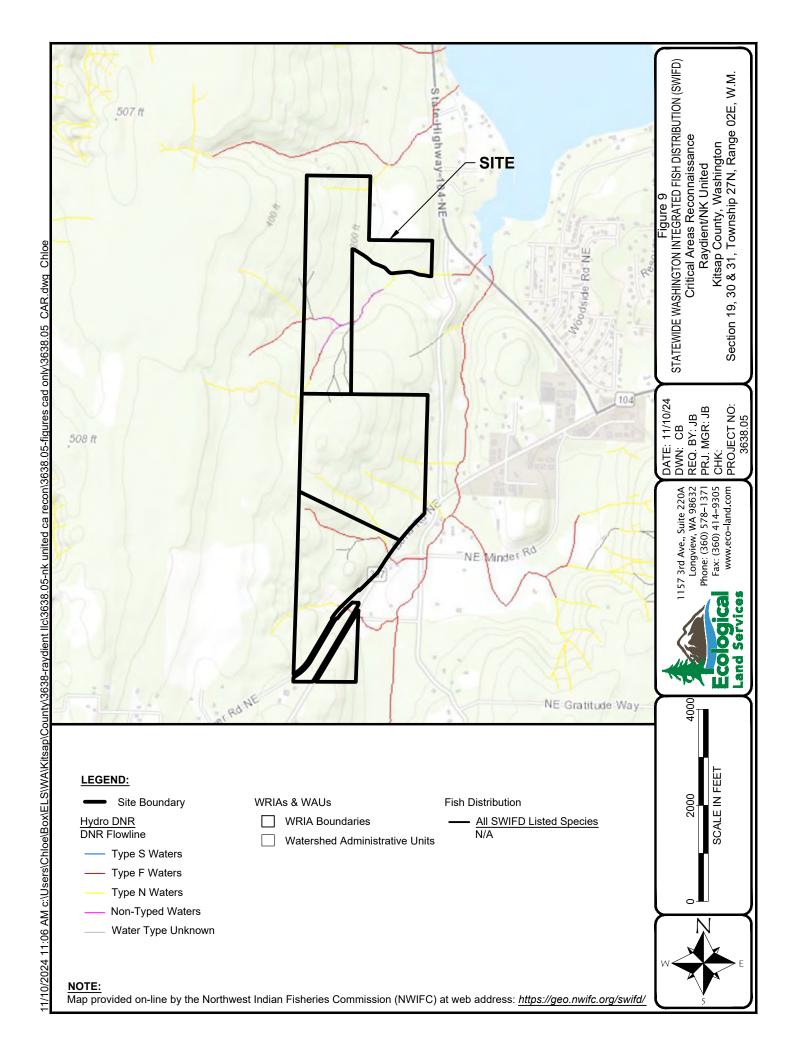
http://websoilsurvey.nrcs.usda.gov/app/













**Photo 1-**Test Plot 3 within the lower end of mapped stream in South Segment. No stream channel this location.



**Photo 3-**Test Plot 5 in the middle segment of the mapped stream within the South Segment. Upland vegetation and no stream channel.



**Photo 2-**Test Plot 3 looking east toward Bond Road/SR 307 along the mapped stream.



**Photo 4-**Photo Point 2 looking down through a mapped stream just west of the clear cut in the South Segment. No stream was observed.



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Critical Areas Reconnaissance NK United /Raydient Poulsbo, Washington

Photoplate 1



**Photo 5-**Test Plot 11 conducted at the upper end of the onsite mapped stream; It is located upslope of the mapped stream at Test Plot 9.



**Photo 7-**Test Plot 18 located at the western extent of the onsite stream in South Segment. Bare ground but no channel observed.



**Photo 6-**Photo Point 4 looking east down the ravine in which the stream is mapped. Dense ferns throughout and no channel observed.



**Photo 8-**Test Plot 18 looking east down the sloping ravine. No stream channel or evidence of water flow.



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# Photoplate 2



**Photo 9-**Test Plot 20 conducted at the east end of a ravine parallel to Stottlemeyer Road. Not mapped as a stream and none observed.



**Photo 11-**Test Plot 21 (east of Stottlemeyer Road) in the southernmost stream in South Segment. Along path cleared for easy access.



**Photo 10-**Test Plot 20 looking north toward culvert under Stottlemeyer Road. Bare ground with no evidence of water flow.



**Photo 12-**Test Plot 21 looking east toward Bond Road (SR 307). Dense vegetation with no channel observed within the mapped area.



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# Photoplate 3



**Photo 13-**Photo Point 11 in one of the mapped streams in the South Segment. Shows the ground where no stream channel was observed.



**Photo 15-**Test Plot 27 located in the Central Segment where a stream is mapped along a former logging road. No channel was observed.



**Photo 14-**Photo Point 15 shows ground at the ditch along the west side of Stottlemeyer Road.



**Photo 16-**Photo Point 20 looking east down the sloping ravine. No stream channel or evidence of water flow.



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# Photoplate 4



**Photo 17-**Test Plot 31 in the mapped stream at northern edge of harvested forest within the Central Segment.



**Photo 19-**A general test plot that revealed the lack of critical areas including a stream channel or indicators of water flow.



**Photo 18-**Test Plot 31 looking north along a ravine, which is not mapped as stream. It shows the absence of a channel indicating water flow.



**Photo 20-**Photo Point 21 looking down slope within the forested portion of the Central Segment. No stream or wetlands in this location.



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# Photoplate 5



**Photo 21-**Test Plot 35 located within a ravine where a stream has not been mapped. No stream or evidence of water flow observed.



**Photo 23**-Test Plot 41 in topographic trough with no mapped stream. Downslope of a large slash pile within the trough.



**Photo 22-**Test Plot 38 looking downslope and easterly within the topographic trough.



**Photo 24-**Test Plot 45 looking downslope and north into trough. No stream or water flow indicators present.



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# Photoplate 6



**Photo 25-**TP 47 looking east to document site conditions. A stream was not observed within this area.



**Photo 27-**Photo Point 10 is located along a topographic trough that lies west of Stottlemeyer Road. Non mapped stream/no stream.



**Photo 26** Photo Point south looking downslope where there is dense vegetation cover not indicative of stream conditions.



**Photo 28**-Photo Point 10 west shows another area of the topographic trough where no stream was observed during the 10/23 site visits.



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# Photoplate 7



Photo 29-central segment, looking down from road winter photo



**Photo 31-**north 2023 clear cut along mapped stream. looks west looks easterly down a topographic trough where no stream was mapped in the



**Photo 30** Photo Point 13 looking south along the low area along Bond Road.



Photo 32-lower ditch along north segment road.



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Photoplate 8



**Photo 33-**Photo Point 13 looking north along a topographic trough at the northern tip of South Segment between Stottlemeyer and Bond Roads.



**Photo 35-**Photo Point 18 looks easterly down a topographic trough where no stream was mapped in the Central Segment.



**Photo 34** Photo Point 13 looking south along the low area along Bond Road.



**Photo 36-**Photo Point 18 looks westerly up the topographic trough across the north end of the Central Segment. No stream observed.



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#### Photoplate 9

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**Photo 37-**Shows the inlet of the culvert under Stottlemeyer Road, which is at the end of the non mapped stream just west of the road.



**Photo 39** shows the culvert under Bond Road at the north end of the South Segment.



**Photo 38** shows the culvert under Bond Road in the upland between Bond and Stottlemeyer Roads in the south segment.



**Photo 40** shows a culvert under one of the service road. It appears that the culvert was installed during construction of logging roads.



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#### Photoplate 10

Critical Areas Reconnaissance NK United /Raydient Poulsbo, Washington

## APPENDIX A

ROUTINE DETERMINATION METHOD AND PLANT INDICATOR RATING DEFINITIONS

#### ROUTINE DETERMINATION METHOD

The Routine Determination Method is defined according to the U.S. Army Corps of Engineers' 1987 Wetland Delineation Manual and the Regional Supplement to the Corps of Engineers' Wetland Delineation Manual (Environmental Laboratory 1987); Western Mountains, Valleys, and Coast Region (Version 2.0) (Corps 2010). The Routine Determination Method examines three parameters – vegetation, soils, and hydrology – to determine if wetlands exist in a given area. Hydrology is critical in determining what is a wetland, but if often difficult to assess because hydrologic conditions can change periodically (hourly, daily, or seasonally). Consequently, it is necessary to determine if hydrophytic vegetation and hydric soils are present, which would indicate that water is present for a long enough duration to support a wetland plant community. By definition, wetlands are those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

#### **VEGETATION INDICATOR STATUS**

The indicator status, following the scientific names of plant species, indicates the likelihood of the species to be found in wetlands according to the *National Wetland Plant List Indicator Rating Definitions* (Corps 2012). Listed from most likely to least likely to be found in wetlands, the indicator status categories are:

- **OBL** (obligate wetland) occur almost always under natural conditions in wetlands.
- **FACW** (facultative wetland) usually occur in wetlands, but occasionally found in non-wetlands.
- **FAC** (facultative) equally likely to occur in wetlands or non-wetlands.
- FACU (facultative upland) usually occur in non-wetlands, but occasionally found in wetlands.
- **UPL** (obligate upland) occur almost always under natural conditions in non-wetlands.
- **NI** (no indicator) insufficient data to assign to an indicator category.

# APPENDIX B

ORDINARY HIGH WATER MARK DELINEATION METHODOLOGY

#### **OHWM DETERMINATION**

The ordinary high water mark (OHWM) of the one onsite streams were determined according to guidance from RCW 90.58.030 and Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State (Ecology 2016). OHWM is defined as a mark "on all lakes, streams, and tidal waters . . . found by examining the bed and banks and ascertaining where the presence and action of waters are so common and usual, and so long continued in all ordinary years, as to mark upon the soil a character distinct from that of the abutting upland, in respect to vegetation" (Anderson et. al. 2016). In essence, the OHWM is determined by assessing three main criteria: 1) the presence or evidence of hydrology, 2) the soil, substrate, and/or geomorphological changes, and 3) changes in vegetation. Indicators for each criterion differ depending on the environment (lake, stream, tidal). The main indicators used to discern the OHWM onsite were change in vegetation, breaks in topography, and changes in soil and substrate.

# APPENDIX C

ROUTINE ONSITE DETERMINATION METHOD DATA FORMS

Project Site: N	NK United			City/Count	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	<u>10-12</u>	2 <u>-23</u>	
Applicant/Owner: R	Raydient				State: WA	Sampling Point:	<u>TP 1</u>		
Investigator(s): <u>J</u>	J. Bartlett, B. Ruddick				Section, Township, Ra	ange: <u>S 31 T 27 N R 2</u>	<u>EWM</u>		
Landform (hillslope, terra	ace, etc.): <u>Hillslope</u>		Local	relief (conca	ave, convex, none): convex	Slor	oe (%):	<u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum:			
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	-15% slopes			NWI cla	assification: None			
Are climatic / hydrologic	conditions on the site typical for t	this time of y	ear? Ye	s 🛛	No [ (If no, explain	n in Remarks.)			
Are Vegetation ☐,	Soil □, or Hydrology [	☐, significa	antly disturbed?	? Are "N	Normal Circumstances" preser	nt? Yes		No	
Are Vegetation ☐,	Soil □, or Hydrology [	☐, naturally	y problematic?	(If nee	eded, explain any answers in f	Remarks.)			
SUMMARY OF FIND	INGS - Attach site map sho	owing sam	pling point	locations,	transects, important feat	tures, etc.			
Hydrophytic Vegetation F	•	Yes 🗆	No 🛛						
Hydric Soil Present?		Yes 🗆	No 🖾 I	s the Samp		Yes		No	
Wetland Hydrology Prese	ent?	Yes	No ⊠	within a Wet	tland?				
, ,,									
	o United (NK United) is located all ents, most of which are either cle								nto
entrance.	sitis, most of which are either cie.	ai cut oi ioie	steu. Test Flo	t i was cond	lucted within the clear cut fleat	Dona Road and South	or the m	Iaiii	
VEGETATION - Use s	scientific names of plants								
Tree Stratum (Plot size:	: 30' diameter)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Workshe	et:			
1		<del>// 00.0.</del>	<u> </u>		Number of Dominant Specie	29			
2.					That Are OBL, FACW, or FA				(A)
3.					Total Number of Dominant				
4.					Species Across All Strata:	<u>3</u>			(B)
50% =, 20% =			= Total Cove		Doroont of Dominant Specie	20			
	(Plot size: 20' diameter)		10101 0010		Percent of Dominant Species That Are OBL, FACW, or FA				(A/B)
Cytisus scoparius	(1 lot oleo. <u>Lo diamotor</u> )	<u>50</u>	VAS	FACU	Prevalence Index workshe	oot:			
Pseudotsuga menzi	riacii (can)		<u>yes</u>	FACU	Total % Cover		iply by:		
		<u>5</u>	<u>no</u>			<u> </u>			
3. <u>Sambucus racemos</u>	<u>sa</u>	<u>5</u>	no no	FACU FACU	OBL species	x1 =		_	
4. <u>Mahonia nervosa</u>		<u>5</u>	<u>no</u>	<u>FACU</u>	FACW species	x2 =	-	_	
5			<del></del>		FAC species	x3 =		_	
50% = <u>32.5</u> , 20% = <u>13</u>		<u>65</u>	= Total Cove	r	FACU species	x4 =		_	
Herb Stratum (Plot size	:: 10' diameter)				UPL species	x5 =		_	
1. Holcus lanatus		<u>20</u>	<u>yes</u>	FAC	Column Totals:	(A)		(E	3)
2. Agrostis gigantea		<u>20</u>	<u>yes</u>	<u>FACU</u>	Prevalen	ce Index = B/A =			
3. Schedonorus arund	<u>linaceus</u>	<u>5</u>	<u>no</u>	<u>FAC</u>	Hydrophytic Vegetation In	dicators:			
4. Rubus ursinus		<u>5</u>	<u>no</u>	<u>FACU</u>	☐ 1 – Rapid Test for Hyd	drophytic Vegetation			
5. Lactuca serriola		<u>5</u>	<u>no</u>	<u>FACU</u>	☐ 2 - Dominance Test is	>50%			
6					☐ 3 - Prevalence Index i	s <3 01			
7.						<del>-</del>	orting		
8.						ptations¹ (Provide supp r on a separate sheet)	orting		
9.					☐ 5 - Wetland Non-Vasc	ular Plants <sup>1</sup>			
10.							,		
					☐ Problematic Hydrophy	rtic Vegetation¹ (Explair	1)		
11					<sup>1</sup> Indicators of hydric soil and	l wetland hydrology mu	st		
50% = <u>27.5</u> , 20% = <u>11</u>		<u>55</u>	= Total Cove	r	be present, unless disturbed				
Woody Vine Stratum (P	lot size:)								
1					II don to do				
2					Hydrophytic Vegetation	Yes 🗆	No		$\boxtimes$
50% =, 20% =			= Total Cove	r	Present?				
% Bare Ground in Herb	Stratum <u>85</u>								
Remarks: Th	ne hydrophytic vegetation criteria	is not met be	ecause there is	less than 50	)% dominance by FAC plant s	pecies.			
Nemarks.									

SOIL Sampling Point: TP 1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 3/3 0-2 100 fi sa loam <u>2-8</u> 10YR 4/3 <u>100</u> sandy loam 8-10 charcoal/wood 10-16 10YR 4/4 sa si loam <u>100</u> fi - fine sa -sandy si - silt <sup>2</sup>Location: PL=Pore Lining, M=Matrix, RC=Root Channel <sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Red Parent Material (TF2) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site: <u>NK United</u>			City/Coun	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	<u>10-12-2</u>	<u>:3</u>
Applicant/Owner: Raydient				State: WA	Sampling Point:	<u>TP 2</u>	
Investigator(s): <u>J. Bartlett, B. Ruddick</u>				Section, Township, Rar	nge: <u>S 31 T 27 N R 2</u>	<u>EWM</u>	
Landform (hillslope, terrace, etc.): <u>valley</u>		Loca	l relief (conca	ave, convex, none): <u>convex</u>	Slop	e (%): <u>5</u>	
Subregion (LRR): MLRA 2	Lat:	_		Long:	Datum:		
Soil Map Unit Name: Poulsbo gravelly sandy loam,	615% slopes	<u> </u>		NWI cla	ssification: <u>None</u>		
Are climatic / hydrologic conditions on the site typical fo	r this time of y	/ear? Ye	es 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐, Soil ☐, or Hydrology	☐, signific	antly disturbed	? Are "I	Normal Circumstances" present	? Yes	⊠ No	
Are Vegetation □, Soil □, or Hydrology	□, natural	ly problematic?	(If ne	eded, explain any answers in R	emarks.)		
SUMMARY OF FINDINGS - Attach site map s	howing san	npling point	locations,	transects, important featu	ures, etc.		
Hydrophytic Vegetation Present?	Yes 🗆	No ⊠	,		<u> </u>		
Hydric Soil Present?	Yes 🗌		Is the Samp		Yes	□ No	o ⊠
Wetland Hydrology Present?	Yes 🗆		within a We	tiand?		_	_
· · · · · · · · · · · · · · · · · · ·			d Dd Dd	Lbaharan Daulaha and Kinasaha		45.54.	-1 :4-
Remarks: North Kitsap United (NK United) is located three segments, most of which are either c							
g,							
VEGETATION – Use scientific names of plants	Absolute	Dominant	Indicator	1			
<u>Tree Stratum</u> (Plot size: <u>30' diameter</u> )	% Cover	Species?	Status	Dominance Test Workshee	t:		
1				Number of Dominant Species	3 2		(4)
2				That Are OBL, FACW, or FA	C: <u>2</u>		(A)
3				Total Number of Dominant	7		(D)
4				Species Across All Strata:	<u>7</u>		(B)
50% =, 20% =		= Total Cove	er	Percent of Dominant Species			(4.5)
Sapling/Shrub Stratum (Plot size: 20' diameter)				That Are OBL, FACW, or FA			(A/B)
1. Pseudotsuga menziesii (sap)	<u>15</u>	<u>yes</u>	FACU	Prevalence Index workshee	 et:		
2. Cytisus scoparius	<u>5</u>	<u>yes</u>	FACU	Total % Cover o	<u>f:</u> <u>Multi</u>	ply by:	
3. Prunus emarginata	<u>5</u>	<u>yes</u>	FACU	OBL species	x1 =		
4. Rubus leucodermis	<u>5</u>	<u>yes</u>	FACU	FACW species	x2 =		
5. Frangula purshiana	<u>5</u>	yes	FAC	FAC species	x3 =		
50% = <u>17.5</u> , 20% = <u>7</u>	<u>-</u> 35	= Total Cove	er	FACU species	x4 =		
Herb Stratum (Plot size: 10' diameter)				UPL species	x5 =		
Schedonorus arundinaceus	25	Voc	FAC	· -	_ (A)		(D)
	<u>25</u>	<u>yes</u>	· · · · · · · · · · · · · · · · · · ·	Column Totals:			_ (D)
2. Agrostis gigantea	<u>20</u>	<u>yes</u>	FACU FACU		ce Index = B/A =		
3. <u>Rubus ursinus</u>	<u>15</u>	<u>no</u>	FACU	Hydrophytic Vegetation Inc			
4. <u>Hypochaeris radicata</u>	<u>10</u>	<u>no</u>	<u>FACU</u>	1 – Rapid Test for Hydi	. , .		
5. <u>Pteridium aquilinum</u>	<u>5</u>	<u>no</u>	<u>FACU</u>	2 - Dominance Test is	>50%		
6. <u>Anaphalis margaritacea</u>	<u>5</u>	<u>no</u>	<u>FACU</u>	☐ 3 - Prevalence Index is	<u>&lt;</u> 3.0¹		
7				4 - Morphological Adap		orting	
8				data in Remarks or	on a separate sheet)		
9				5 - Wetland Non-Vascu	ılar Plants¹		
10				☐ Problematic Hydrophyt	ic Vegetation¹ (Explain	)	
11				4			
50% = <u>40</u> , 20% = <u>16</u>	<u>80</u>	= Total Cove	er	<sup>1</sup> Indicators of hydric soil and be present, unless disturbed		it.	
Woody Vine Stratum (Plot size:)				bo procent, amose dictarbed	or problemate.		
1							
2				Hydrophytic			
50% =, 20% =		= Total Cove	er		Yes	No	$\boxtimes$
% Bare Ground in Herb Stratum 20				Present?			
The hydrophytic vegetation criter	o io not	oogues th '	n loop th 51	00/ dominance by 540 -1			
Remarks: The hydrophytic vegetation criter	a 15 1101 MET b	ecause there is	s iess than 50	o∞ dominance by FAC plant sp	ecies.		

SOIL Sampling Point: TP 2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 0-2 100 sa loam 2-10 10YR 4/1 <u>50</u> sa loam 7.5YR 4/6 <u>50</u> 10YR 5/6 10-16 10YR 5/2 C 80 20 M <u>sa loam</u> sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-12-23	<u> </u>
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 3</u>	
Investigator(s):	J. Bartlett, B. Ruddick				Section, Township, Ra	nge: <u>S 31 T 27 N R 2 I</u>	<u>EWM</u>	
Landform (hillslope, ter	rrace, etc.): <u>valley</u>		Loca	l relief (conca	ive, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum:		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6	15% slopes	<u>i</u>		NWI cla	assification: None		
Are climatic / hydrologi	ic conditions on the site typical for	this time of y	vear? Ye	es 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	Soil ☐, or Hydrology	☐, significa	antly disturbed	? Are "N	Normal Circumstances" presen	t? Yes	⊠ No	
Are Vegetation $\square$ ,	Soil ☐, or Hydrology	□, naturall	ly problematic?	(If nee	eded, explain any answers in F	lemarks.)		
SUMMARY OF FIN	DINGS – Attach site map sh	owing san	npling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetation	n Present?	Yes 🗌	No 🛛	In the Ones	lad Avaa			
Hydric Soil Present?		Yes 🗌		Is the Sampl within a Wet		Yes	☐ No	
Wetland Hydrology Pre	esent?	Yes 🗌	No 🛛					
	ap United (NK United) is located a							
	ments, most of which are either clo in a mapped stream. No stream o				ucted within the same clear cu	it as Test Plots 1 and 2	but is locate	ed to
Horarana	in a mapped stream. No stream o	oriditions we	ic observed in	uno location.				
VEGETATION - Use	e scientific names of plants							
Tree Stratum (Plot siz	ze: <u>30' diameter</u> )	Absolute <u>% Cover</u>	Dominant Species?	Indicator Status	Dominance Test Workshee	et:		
1		70 COVEL	Opecies:	<u>Otatus</u>	Number of Dominant Specie	ie.		
2.					That Are OBL, FACW, or FA			(A)
3.			<u> </u>		Total Number of Dominant			
4.			<u> </u>		Species Across All Strata:	<u>11</u>		(B)
50% =, 20% =			= Total Cove	er	Percent of Dominant Specie	9		
Sapling/Shrub Stratur	m (Plot size: <u>20' diameter</u> )	·			That Are OBL, FACW, or FA			(A/B)
Cytisus scoparius	 	<u>65</u>	<u>yes</u>	FACU	Prevalence Index workshe	et:		
Pseudotsuga mer	="	<u>5</u>	yes	FACU	Total % Cover of	of: Multir	oly by:	
3. Rubus leucoderm	<u></u>	<u>5</u>	<u>yes</u>	FACU	OBL species	x1 =		
4. Mahonia nervosa		<u>5</u>	<u>yes</u>	FACU	FACW species	x2 =		
5					FAC species	x3 =		
50% = <u>40</u> , 20% = <u>16</u>		<u>80</u>	= Total Cove	er	FACU species	x4 =		
Herb Stratum (Plot size	ze: 10' diameter)				UPL species	x5 =		
1. Rubus ursinus		<u>10</u>	<u>yes</u>	FACU	Column Totals:	(A)		(B)
Chamerion angus	stifolium	<u>10</u>	<u>yes</u>	FACU		ce Index = B/A =		(=)
Polystichum muni		<u>5</u>	<u>yes</u>	FACU	Hydrophytic Vegetation In			
4. Holcus lanatus	<u>itam</u>	<u>5</u>	<u>yes</u>	FAC	☐ 1 – Rapid Test for Hyd			
5. Micelis muralis		<u>5</u>	<u>yes</u>	FACU	☐ 2 - Dominance Test is	. , ,		
6. Anaphalis margar	ritacea			NL (UPL)				
		<u>5</u>	<u>yes</u>		☐ 3 - Prevalence Index is	_		
7. <u>Senecio jacobaea</u>	<u>1</u>	<u>5</u>	<u>yes</u>	<u>FACU</u>		ptations¹ (Provide suppo on a separate sheet)	rting	
8					_	,		
9					5 - Wetland Non-Vasc			
10					☐ Problematic Hydrophy	tic Vegetation¹ (Explain)	'	
11		45			<sup>1</sup> Indicators of hydric soil and	wetland hydrology mus	t	
50% = <u>22.5</u> , 20% = <u>9</u>		<u>45</u>	= Total Cove	er	be present, unless disturbed			
Woody Vine Stratum	(Plot size:)							
1					Hydrophytic			
2					Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% =			= Total Cove	er F	Present?			
% Bare Ground in He	erb Stratum <u>50</u>							
Remarks:	The hydrophytic vegetation criteria	is not met b	ecause there is	s less than 50	% dominance by FAC plant sp	pecies.		

SOIL Sampling Point: TP 3 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 0-2 100 sa loam <u>2-6</u> 10YR 3/3 <u>50</u> sa loam 6-16 10YR 4/1 <u>50</u> sa loam 10YR 4/6 50 sa loam sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	3K United						City/Coun	ty:	Pouls	sbo/Kitsa	<u>ıp</u>	Sa	mpling I	Date:	<u>10-</u>	<u>12-23</u>	
Applicant/Owner:	Raydient									St	ate: <u>WA</u>	Sa	mpling I	Point:	TP.	4	
Investigator(s):	J. Bartlett / B. F	Ruddick							Se	ction, To	wnship, R	lange:	S 31 T	27 N R 2 E	<u>WW</u>		
Landform (hillslope, terr	race, etc.): <u>v</u>	<u>ralley</u>				Loca	l relief (conc	ave, d	conve	x, none):	conve	<u>X</u>		Slope	e (%):	<u>5</u>	
Subregion (LRR):	MLRA 2		Lat:		_			L	.ong:					Datum:			
Soil Map Unit Name:	Poulsbo grave	elly sandy loam, 6	615% sl	opes							NWI c	lassific	ation:	<u>None</u>			
Are climatic / hydrologic	conditions on t	the site typical fo	this time	e of ye	ear?	Ye	es 🛛	١	No	☐ (If	no, explai	in in Re	emarks.)	)			
Are Vegetation □,	Soil □,	or Hydrology	□, sig	gnifica	ntly di	sturbed	? Are "l	Norm	nal Cir	cumstan	ces" prese	ent?		Yes	$\boxtimes$	No	
Are Vegetation □,	Soil □,	or Hydrology	□, na	turally	probl	ematic?	? (If ne	eded	l, expla	ain any a	nswers in	Rema	rks.)				
SUMMARY OF FINE	DINGS – Atta	ch site map sl	nowing	sam	pling	point	locations,	tran	sect	s, impo	rtant fea	atures	, etc.				
Hydrophytic Vegetation		•	Yes		No.	🛛											
Hydric Soil Present?			Yes		No	$\square$	Is the Samp							Yes		No	$\boxtimes$
Wetland Hydrology Pres	sent?		Yes		No		within a We	tland	d?								_
							1D 1D				1.12		., .				
Remarks: North Kitsa		nited) is located hich are either cl															
		apped stream. N									ario ologi (	out uo	1001110	10 1, 2, 4114	o un	a io a	осторо
VEGETATION – Use	scientific na	mes of plants			D		la dia atau	1									
Tree Stratum (Plot size	e: <u>30' diameter</u> )		Absolu % Cov		Domi Spec		Indicator Status	Do	omina	nce Tes	t Workshe	eet:					
1								Nu	umber	of Domi	nant Speci	ies		0			(4)
2											ACW, or F			<u>0</u>			(A)
3								To	otal Nu	ımber of	Dominant						
4											All Strata:			<u>5</u>			(B)
50% =, 20% = _					= Tot	al Cove	er	Pe	ercent	of Domi	nant Speci	ies					
Sapling/Shrub Stratum		diameter)									ACW, or F			<u>0</u>			(A/B)
Pseudotsuga men		,	<u>15</u>		yes		FACU	Pr	evale	nce Inde	x worksh	eet:					
Cytisus scoparius			10		yes		FACU				al % Cover			Multip	olv bv.		
3			<u></u>		100		17.00	OF	BL spe		/ 0 0 0 1 0 1	<u> </u>		x1 =	.,, ≈ <u>,</u> .		
4			-							pecies				x2 =			
5.									AC spe	•				x3 =			
			25			al Cava			-					x4 =			
50% = <u>12.5</u> , 20% = <u>5</u>	401 !!		<u>25</u>		- 100	al Cove	ŧ			pecies							
Herb Stratum (Plot size	e: 10' diameter)	1						UF	PL spe	ecies				x5 =			
1. Rubus ursinus			<u>20</u>		<u>yes</u>		<u>FACU</u>	Co	olumn	Totals:		(A	)				(B)
2. <u>Senecio vulgaris</u>			<u>15</u>		yes		<u>FACU</u>				Prevale	nce Ind	dex = B/	A =			
<ol><li>Chamerion angust</li></ol>	<u>tifolium</u>		<u>10</u>		<u>yes</u>		<u>FACU</u>	Ну	ydropl	hytic Ve	getation I	ndicat	ors:				
4									1 -	- Rapid <sup>-</sup>	Γest for Hy	/drophy	tic Vege	etation			
5									2 -	Domina	nce Test is	s >50%	0				
6									l 3-	Prevale	nce Index	is <u>&lt;</u> 3.0	)1				
7								_	. 4-	· Morpho	logical Ada	aptatio	ns¹ (Pro	vide suppo	rtina		
8									l		Remarks c				3		
9									5 -	Wetland	d Non-Vas	cular F	lants <sup>1</sup>				
10.									l Pr	oblemati	c Hydroph	vtic Ve	netation	n¹ (Explain)			
11.										obioman	o i iyalopii	iyao vo	gotation	· (Explain)			
50% = <u>22.5</u> , 20% = <u>9</u>			45		= Tot	al Cove								rology must	t		
Woody Vine Stratum (	Plot size:	`	<del>10</del>		- 100	ai oove	<b>,</b> 1	be	prese	ent, unles	ss disturbe	ed or pr	oblemat	tic.			
,	1 101 3126.	_/															
1								н	/dropl	hytic							
2					_			_	getat	-		Yes			No	<b>o</b>	$\boxtimes$
50% =, 20% = _					= Tot	al Cove	er	Pr	esent	?							
% Bare Ground in Her	b Stratum <u>50</u>																
Remarks: T	he hydrophytic	vegetation criteri	a is not r	net be	cause	there is	s less than 5	0% d	lomina	ance by F	AC, FAC	W, or C	BL plan	nt species.			

SOIL Sampling Point: TP 4 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 4/4 0-5 100 sa loam <u>5-8</u> 10YR 4/2 <u>50</u> sa loam 7.5YR 4/6 <u>50</u> sa loam 8-15 10YR 4/3 50 sa loam 7.5YR 4/6 <u>50</u> gr sa loam gr - gravelly sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-12-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 5</u>	
Investigator(s):	J. Bartlett / B. Ruddick				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>EWM</u>	
Landform (hillslope, te	rrace, etc.): <u>valley</u>		Local	relief (conca	ve, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛚	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	Soil □, or Hydrology	☐, significa	antly disturbed	? Are "N	Normal Circumstances" present	t? Yes	☑ No	
Are Vegetation ☐,	Soil □, or Hydrology	☐, naturall	y problematic?	(If nee	eded, explain any answers in R	emarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🛛		Lat A			
Hydric Soil Present?		Yes 🗌		ls the Sampl within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlem	neyer Road and	d Bond Road	between Poulsbo and Kingsto	n. The site is large so v	vas divided	into
	ments, most of which are either cle			t 5 was cond	ucted within the same clear cu	t as Test Plots 1 through	h 4 and bet	ween
two topog	raphic high points and the upper e	по ога тарр	eu stream.					
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: 30' diameter)	Absolute	Dominant	Indicator	Dominance Test Workshee	rt:		
1		% Cover	Species?	<u>Status</u>	Number of Demission of Consis	_		
2					Number of Dominant Species That Are OBL, FACW, or FA			(A)
3.								
4.					Total Number of Dominant Species Across All Strata:	<u>6</u>		(B)
50% =, 20% =			= Total Cove		Dt -f Dit Oi	_		
·	<u> </u>		- Total Gove		Percent of Dominant Species That Are OBL, FACW, or FA			(A/B)
Pseudotsuga mei		<u>10</u>	<u>yes</u>	FACU	Prevalence Index workshe			
Cytisus scoparius	<del>_</del>	<u>10</u> 5		FACU	Total % Cover of		alv hv	
3. <u>Sambucus racem</u>	=	<u>5</u>	<u>yes</u> <u>yes</u>	FACU	OBL species	<u>w.</u> x1 =	ny by.	
4.	<u>1038</u>	<u> </u>	<u>yes</u>	<u>1 ACC</u>	FACW species	x1 =x2 =		
5.					FAC species	_ x3 =		
50% = <u>10</u> , 20% = <u>4</u>		20	= Total Cove		FACU species	_ x4 =	-	
	zo: 10' diameter)	20	- Total Cove	'	UPL species	_ x5 =		
Herb Stratum (Plot si		00		E4011		_		<b>(D)</b>
1. Chamerion angus		<u>20</u>	<u>yes</u>	<u>FACU</u>	Column Totals:	_ (A)	(	(B)
2. <u>Hypochaeris radi</u>		<u>15</u>	<u>yes</u>	<u>FACU</u>		ce Index = B/A =		
3. <u>Pteridium aquilinu</u>	<u>um</u>	<u>15</u>	<u>yes</u>	FACU	Hydrophytic Vegetation Inc			
4. <u>Galium aparine</u>		<u>5</u>	<u>no</u>	<u>FACU</u>	1 – Rapid Test for Hyd	· · ·		
5					2 - Dominance Test is	>50%		
6					☐ 3 - Prevalence Index is	<u>&lt;</u> 3.0¹		
7						tations¹ (Provide suppo	rting	
8					data in Remarks or	on a separate sheet)		
9					☐ 5 - Wetland Non-Vascu	ılar Plants <sup>1</sup>		
10					☐ Problematic Hydrophyt	ic Vegetation¹ (Explain)	ı	
11					1			
50% = <u>27.5,</u> 20% = <u>1</u>	<u>1</u>	<u>55</u>	= Total Cove	r	<sup>1</sup> Indicators of hydric soil and be present, unless disturbed		t	
Woody Vine Stratum	(Plot size:)				'	'		
1								
2					Hydrophytic	V	N	<b>□</b>
50% =, 20% =	:		= Total Cove	r	Vegetation Present?	Yes 🗌	No	$\boxtimes$
% Bare Ground in He	erb Stratum <u>50</u>							
	The hydrophytic vegetation criteria	is not met h	ecause there is	s less than 50	L )% dominance by FAC_FACW	or OBL plant species		
Remarks:	, , ,				-,	1		
1								

SOIL Sampling Point: TP 5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 3/3 0-7 100 sa loam <u>7-16</u> 10YR 3/2 90 10YR 3/6 <u>10</u> C M gr sa loam gr - gravelly sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	3K United			City/Count	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-12-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 6</u>	
Investigator(s):	J. Bartlett / B. Ruddick				Section, Township, Rang	e: <u>S 31 T 27 N R 2 E</u>	<u>WM</u>	
Landform (hillslope, ter	errace, etc.): <u>valley</u>		Local	relief (conca	ave, convex, none): <u>convex</u>	Slope	(%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6	15% slopes			NWI class	ification: <u>None</u>		
Are climatic / hydrologi	ic conditions on the site typical for	this time of y	rear? Ye	es 🛛	No 🔲 (If no, explain in	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 Rer	narks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important featur	es, etc.		
Hydrophytic Vegetation	n Present?	Yes 🗌	No 🛛					
Hydric Soil Present?		Yes 🗌		ls the Samp within a Wet		Yes	□ No	
Wetland Hydrology Pre	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlen	neyer Road and	d Bond Road	between Poulsbo and Kingston.	The site is large so w	as divided	into
three segr	ments, most of which are either cle	ear cut or fore	ested. Test Plo	t 6 was cond	lucted upslope of Test Plot 5 with	in the same mapped s	tream area	à.
VEGETATION - Use	e scientific names of plants							
Tree Stratum (Plot siz	ze: 30' diameter)	Absolute	Dominant	Indicator	Dominance Test Worksheet:			
1	,	% Cover	Species?	<u>Status</u>				
2					Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u>		(A)
3.					, ,			
4.					Total Number of Dominant Species Across All Strata:	<u>5</u>		(B)
50% =, 20% =	•		= Total Cove					
	<u> </u>		- Total Cove	1	Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>20</u>		(A/B)
Pseudotsuga mer		15	VOC	FACU	Prevalence Index worksheet:			
Cytisus scoparius		<u>15</u>	<u>yes</u>	FACU	Total % Cover of:	<u>Multipl</u>	v by:	
3. <u>Gaultheria shallor</u>	_	<u>5</u> 5	no no	FACU FACU	OBL species	<u>мицрі</u> х1 =	<u>у Бу.</u>	
Mahonia nervosa		<u>5</u>	no no	FACU	FACW species	x2 =		
5.	,	<u>5</u>	<u>no</u>	<u>1 ACC</u>	FAC species	x3 =		
50% = <u>15,</u> 20% = <u>6</u>		30	= Total Cove		FACU species	x4 =		
	iza. 10! diameter)	<u>30</u>	- Total Cove	1				
Herb Stratum (Plot size	· · · · · · · · · · · · · · · · · · ·	45		E4011	UPL species	x5 =	<del></del> .	<b>(D)</b>
1. <u>Hypochaeris radio</u>	<u>cata</u>	<u>15</u>	<u>yes</u>	<u>FACU</u>		(A)	(	(B)
2. <u>Holcus lanatus</u>		<u>15</u>	<u>yes</u>	<u>FAC</u>		Index = B/A =		
3. <u>Chamerion angus</u>		<u>10</u>	<u>yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indic			
4. <u>Pteridium aquilinu</u>	<u>ım</u>	<u>10</u>	<u>ves</u>	<u>FACU</u>	1 – Rapid Test for Hydro	· -		
5					2 - Dominance Test is >5	0%		
6					☐ 3 - Prevalence Index is <	3.0 <sup>1</sup>		
7					4 - Morphological Adapta		ting	
8					data in Remarks or or	a separate sheet)		
9					☐ 5 - Wetland Non-Vascula	r Plants <sup>1</sup>		
10					☐ Problematic Hydrophytic	Vegetation¹ (Explain)		
11					4			
50% = <u>25</u> , 20% = <u>10</u>		<u>50</u>	= Total Cove	r	¹Indicators of hydric soil and we be present, unless disturbed or			
Woody Vine Stratum	(Plot size:)				as process, amood alexanded or	problemane.		
1								
2					Hydrophytic	_		_
50% =, 20% =	:		= Total Cove	r	Vegetation Your Present?	es 🗌	No	$\boxtimes$
% Bare Ground in He	erb Stratum 50				Fresents			
	The hydrophytic vegetation criteria	is not mot h	ocause there is	lose than 50	0% dominance by EAC plant spec			
Remarks:	The hydrophytic vegetation chiena	i is not met b	ecause mere is	s less triair ot	170 dominance by FAC plant spec	iles.		

SOIL Sampling Point: TP 6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 0-8 100 sa loam 8-12 10YR 4/3 <u>60</u> loamy sand 10YR 4/6 <u>40</u> 12-13 charcoal 13-18 10YR 4/6 <u>60</u> gr sa loam 10YR 4/3 <u>40</u> gr - gravelly sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-12-23	<u> </u>
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 7</u>	
Investigator(s):	J. Bartlett / B. Ruddick				Section, Township, Ra	nge: <u>S 31 T 27 N R 2 E</u>	<u>WM</u>	
Landform (hillslope, te	errace, etc.): <u>valley</u>		Loca	l relief (conca	ive, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6	15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	, Soil □, or Hydrology	☐, significa	antly disturbed	? Are "N	Normal Circumstances" presen	t? Yes	⊠ No	
Are Vegetation	, Soil □, or Hydrology	□, naturall	y problematic?	(If nee	eded, explain any answers in F	temarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🛛		Lad Assa			
Hydric Soil Present?		Yes 🗌		Is the Sample within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlen	neyer Road an	d Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided	into
	ments, most of which are either cle	ear cut or fore	ested. Test Plo	ot 7 was cond	ucted west of Test Plot 5 and	3 within a low topograph	ic trough a	long
side tile e	existing road.							
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot si	ze: <u>30' diameter</u> )	Absolute	Dominant	Indicator Status	Dominance Test Workshee	et:		
1		% Cover	Species?	<u>Status</u>	Number of Deminant Specie	c.		
2.					Number of Dominant Specie That Are OBL, FACW, or FA			(A)
3.					Total Number of Dominant			
4.					Species Across All Strata:	<u>4</u>		(B)
50% =, 20% =	:		= Total Cove		Percent of Dominant Species	9		
·	m (Plot size: 20' diameter)				That Are OBL, FACW, or FA			(A/B)
Pseudotsuga me		<u>15</u>	<u>yes</u>	FACU	Prevalence Index workshe	et:		
Gaultheria shallo	<del>_</del>	<u>10</u>	<u>yes</u>	FACU	Total % Cover of		ılv bv:	
3	<u> </u>	<u></u>	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	17.00	OBL species	x1 =	<u>., ~, .</u>	
4					FACW species	x2 =		
5.					FAC species	- x3 =		
50% = <u>12.5</u> , 20% = <u>5</u>	5	<u>25</u>	= Total Cove	er	FACU species	_ x4 =		
Herb Stratum (Plot si				•	UPL species	_ x5 =		
Hypochaeris radi	·	<u>25</u>	VAS	<u>FACU</u>		_ (A)		(B)
	<u>cata</u>		<u>yes</u>	· · · · · · · · · · · · · · · · · · ·	Column Totals:	(^) ce Index = B/A =		(D)
2. Rubus ursinus	atifalium	<u>20</u>	<u>yes</u>	FACU FACU				
3. Chamerion angus	<u>SuiOiium</u>	<u>10</u>	<u>no</u>	FACU FAC	Hydrophytic Vegetation Inc			
4. <u>Holcus lanatus</u>	um	<u>10</u>	no no	FACU	☐ 1 – Rapid Test for Hyd☐ 2 - Dominance Test is			
5. <u>Pteridium aquilinu</u>	<u> 1111</u>	<u>5</u>	<u>no</u>	<u>FACU</u>				
6					☐ 3 - Prevalence Index is	; <u>&lt;</u> 3.0¹		
7						otations¹ (Provide suppo on a separate sheet)	rting	
8				—	_			
9					5 - Wetland Non-Vascu	ılar Plants'		
10				—	☐ Problematic Hydrophyt	tic Vegetation¹ (Explain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must		
50% = <u>32.5</u> , 20% = <u>1</u>	<del></del> '	<u>65</u>	= Total Cove	er	be present, unless disturbed			
Woody Vine Stratum	(Plot size:)							
1					H. dan da da			
2					Hydrophytic Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% =	:		= Total Cove	er	Present?			_
% Bare Ground in He	erb Stratum <u>50</u>							
Remarks:	The hydrophytic vegetation criteria	is not met b	ecause there is	s less than 50	)% dominance by FAC plant sp	pecies.		
. tomano.	•				•			

Depth	Matrix				Redox F	eatures							
nches)	Color (moist)	%	Co	olor (mo	oist) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>	F	Remarks	;	
<u>0-10</u>	7.5YR 3/2	100						gr sa lo	am				
<u>10-16</u>	10YR 4/3	<u>90</u>	<u>7</u>	.5YR 4	<u>/6</u> <u>10</u>			gr sa lo	<u></u>				
			-										
			-										
			-										
			-						gr - grave				
			-						<u>sa -sand</u>	Υ			
me: C= C	oncentration, D=De	nletion R	- M=Reduc	ed Mat	rix CS=Covered or	Coated San	d Grains	<sup>2</sup> I ocation: PI	–	=Matrix R	C=Root	Channe	el
•	Indicators: (Applic	-							cators for Prob				
Histos	ol (A1)				Sandy Redox (S5	5)			2 cm Muck (A	<b>\10</b> )	-		
Histic	Epipedon (A2)				Stripped Matrix (S	S6)			Red Parent M	/laterial (T	F2)		
Black	Histic (A3)				Loamy Mucky Mi	ineral (F1) <b>(e</b> :	xcept MLRA	1) 🗆	Very Shallow	Dark Sur	face (TF	12)	
Hydro	gen Sulfide (A4)				Loamy Gleyed M	latrix (F2)			Other (Explai	n in Rema	arks)		
Deplet	ed Below Dark Surf	ace (A11	)		Depleted Matrix (	(F3)							
Thick I	Dark Surface (A12)				Redox Dark Surfa	ace (F6)							
Sandy	Mucky Mineral (S1)	)			Depleted Dark Su	urface (F7)			icators of hydrop vetland hydrolog				
Sandy	Gleyed Matrix (S4)				Redox Depressio	ons (F8)			inless disturbed			.,	
strictive	Layer (if present):												
e:													
oth (inche	:s):						Hydric Soil	ls Present?		Yes		No	
emarks:	This soil profile me	eets none	of the hy	dric soil	l indicators because	e of the high r	matrix colors.						
DROLOG	e <b>y</b>		of the hy	dric soil	l indicators because	e of the high r	matrix colors.						
OROLOG etland Hy	· 	:				e of the high r	matrix colors.	Secol	ndary Indicators	(2 or more	e require	ed)	
DROLOG otland Hy mary Indic	iY drology Indicators	:					matrix colors.		ndary Indicators Water-Stained L		-	ed)	
PROLOG etland Hy mary India Surfac	GY drology Indicators cators (minimum of	:		ς all tha	at apply)	eaves (B9)			•	eaves (B	9)	ed)	
OROLOG etland Hy mary India Surfac High N	drology Indicators cators (minimum of one Water (A1)	:		ς all tha	at apply) Water-Stained Le	eaves (B9)			Water-Stained L	eaves (Bs	9)	ed)	
PROLOG Itland Hy mary India Surfar High V	drology Indicators cators (minimum of the Water (A1) Water Table (A2)	:		∢ all tha	at apply) Water-Stained Le (except MLRA 1	eaves (B9)			Water-Stained L	eaves (B9 , <b>and 4B)</b> ns (B10)	9)	ed)	
ROLOG tland Hy mary India Surfac High V Satura Water	drology Indicators cators (minimum of the Water (A1) Water Table (A2) ation (A3)	:		∢ all tha	at apply) Water-Stained Le (except MLRA 1, Salt Crust (B11)	eaves (B9) , <b>2, 4A, and</b>			Water-Stained L (MLRA 1, 2, 4A, Drainage Patter	eaves (B9 , <b>and 4B)</b> ns (B10) ter Table	9) (C2)	·	
PROLOG Itland Hy mary India Surfac High V Satura Water Sedim	drology Indicators cators (minimum of oce Water (A1) Nater Table (A2) ation (A3)	:		c all tha	at apply)  Water-Stained Lee  (except MLRA 1;  Salt Crust (B11)  Aquatic Invertebr	eaves (B9) , <b>2, 4A, and</b> rates (B13) e Odor (C1)	4B)		Water-Stained L (MLRA 1, 2, 4A, Drainage Patter Dry-Season Wa	eaves (BS, and 4B) ns (B10) ter Table on Aeria	9) (C2) al Image	·	
PROLOG Itland Hy mary Indio Surfac High N Satura Water Sedim Drift E	drology Indicators cators (minimum of oce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2)	:		c all tha	at apply)  Water-Stained Le  (except MLRA 1,  Salt Crust (B11)  Aquatic Invertebr.  Hydrogen Sulfide	eaves (B9) , 2, 4A, and rates (B13) e Odor (C1) oheres along	<b>4B)</b> Living Roots (		Water-Stained L (MLRA 1, 2, 4A, Drainage Pattern Dry-Season Water Saturation Visible	eaves (BS, and 4B) ns (B10) ter Table on Aeria sition (D2)	9) (C2) al Image	·	
PROLOG etland Hy mary Indio Surfac High \ Satura Water Sedim Drift E	drology Indicators cators (minimum of one Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3)	:		c all tha	at apply)  Water-Stained Le  (except MLRA 1,  Salt Crust (B11)  Aquatic Invertebr.  Hydrogen Sulfide  Oxidized Rhizosp	eaves (B9) , 2, 4A, and arates (B13) e Odor (C1) pheres along	<b>4B)</b> Living Roots (	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Pattern Dry-Season Wa' Saturation Visibl Geomorphic Pos	eaves (BS, and 4B) ns (B10) ter Table le on Aeria sition (D2) d (D3)	9) (C2) al Image	·	
PROLOG Stland Hy mary India Surfac High N Satura Water Sedim Drift D Algal Iron D	drology Indicators cators (minimum of oce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	:		c all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp	eaves (B9) , 2, 4A, and earlies (B13) e Odor (C1) pheres along luced Iron (C4 uction in Tille	<b>4B)</b> Living Roots (4) d Soils (C6)	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Pattern Dry-Season Wa' Saturation Visibl Geomorphic Pos Shallow Aquitare	eaves (B9, and 4B)  ns (B10)  ter Table (le on Aeria sition (D2)  d (D3)  st (D5)	9) (C2) al Image	ery (C9)	
PROLOG tland Hy mary India Surfac High V Satura Water Sedim Drift E Algal Iron E Surfac	drology Indicators cators (minimum of oce Water (A1) Nater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)	: one requi	red; check	s all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	eaves (B9)  , 2, 4A, and example (B13)  e Odor (C1)  pheres along duced Iron (C4  uction in Tille ses Plants (D	<b>4B)</b> Living Roots (4) d Soils (C6)	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Patteri Dry-Season Wa Saturation Visibl Geomorphic Pos Shallow Aquitare FAC-Neutral Tes	eaves (BS, and 4B) ns (B10) ter Table le on Aeria sition (D2) d (D3) st (D5) nds (D6) (	(C2) al Image (LRR A)	ery (C9)	
PROLOG Itland Hy mary India Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund	drology Indicators cators (minimum of oce Water (A1) Nater Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) De Soil Cracks (B6)	: one requi	red; check	c all tha	at apply)  Water-Stained Lector (except MLRA 1, Salt Crust (B11)  Aquatic Invertebric Hydrogen Sulfide Oxidized Rhizospiesence of Redurence of Redurence of Redurence of Stunted or Stress	eaves (B9)  , 2, 4A, and example (B13)  e Odor (C1)  pheres along duced Iron (C4  uction in Tille ses Plants (D	<b>4B)</b> Living Roots (4) d Soils (C6)	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Patteri Dry-Season War Saturation Visibl Geomorphic Pos Shallow Aquitare FAC-Neutral Tes Raised Ant Mou	eaves (BS, and 4B) ns (B10) ter Table le on Aeria sition (D2) d (D3) st (D5) nds (D6) (	(C2) al Image (LRR A)	ery (C9)	
PROLOG Istand Hy mary India Surfar High I Satura Water Sedim Drift E Algal Iron D Surfar Inund Spars	drology Indicators cators (minimum of operators (Marker (A1)) Water Table (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Deposits (B5) Deposits (B5) Deposits (B6)	: one requi	red; check	c all tha	at apply)  Water-Stained Lector (except MLRA 1, Salt Crust (B11)  Aquatic Invertebric Hydrogen Sulfide Oxidized Rhizospiesence of Redurence of Redurence of Redurence of Stunted or Stress	eaves (B9)  , 2, 4A, and example (B13)  e Odor (C1)  pheres along duced Iron (C4  uction in Tille ses Plants (D	<b>4B)</b> Living Roots (4) d Soils (C6)	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Patteri Dry-Season War Saturation Visibl Geomorphic Pos Shallow Aquitare FAC-Neutral Tes Raised Ant Mou	eaves (BS, and 4B) ns (B10) ter Table le on Aeria sition (D2) d (D3) st (D5) nds (D6) (	(C2) al Image (LRR A)	ery (C9)	
PROLOG Strland Hy mary Indio Surfac High \ Satura Water Sedim Drift D Algal Iron D Surfac Inund Spars	drology Indicators cators (minimum of oce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Dee Soil Cracks (B6) ation Visible on Aeriely Vegetated Concevations:	: one requi	red; check	c all tha	at apply)  Water-Stained Lector (except MLRA 1, Salt Crust (B11)  Aquatic Invertebric Hydrogen Sulfide Oxidized Rhizospiesence of Redurence of Redurence of Redurence of Stunted or Stress	eaves (B9) , 2, 4A, and arates (B13) e Odor (C1) pheres along duced Iron (C4 uction in Tille ses Plants (D Remarks)	<b>4B)</b> Living Roots (4) d Soils (C6)	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Patteri Dry-Season War Saturation Visibl Geomorphic Pos Shallow Aquitare FAC-Neutral Tes Raised Ant Mou	eaves (BS, and 4B) ns (B10) ter Table le on Aeria sition (D2) d (D3) st (D5) nds (D6) (	(C2) al Image (LRR A)	ery (C9)	
PROLOG  Strand Hy mary Indio  Surface High V Satura  Water Sedim Drift E Algal Iron D Surface Inund Spars	drology Indicators cators (minimum of ope 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 Aeriely Vegetated Concevations: er Present?	: one requi	y (B7) ace (B8)	c all tha	water-Stained Lector (except MLRA 1, Salt Crust (B11) Aquatic Invertebric Hydrogen Sulfide Oxidized Rhizospiesence of Reducent Iron Reducent Iron Reducent Iron Reducent Oxter (Explain in	eaves (B9) , 2, 4A, and eaves (B13) e Odor (C1) pheres along luced Iron (C4 luction in Tille ses Plants (D Remarks)	<b>4B)</b> Living Roots (4) d Soils (C6)	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Patteri Dry-Season War Saturation Visibl Geomorphic Pos Shallow Aquitare FAC-Neutral Tes Raised Ant Mou	eaves (BS, and 4B) ns (B10) ter Table le on Aeria sition (D2) d (D3) st (D5) nds (D6) (	(C2) al Image (LRR A)	ery (C9)	
PROLOG  Stland Hy mary India  Surfac  High \ Satura  Vater  Sedim  Drift D  Surfac  Iron D  Surfac  Inund  Spars  Eld Obser  rface Wat  ster Table  turation P	drology Indicators cators (minimum of the Water (A1)) Water Table (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Dee Soil Cracks (B6) Deteror	: one requi ial Imager cave Surfa	red; check  y (B7) ace (B8)  No	<all td="" that<=""><td>wat apply)  Water-Stained Let (except MLRA 1, Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp. Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in</td><td>eaves (B9) , 2, 4A, and arates (B13) e Odor (C1) pheres along uced Iron (Cauction in Tille ses Plants (D Remarks)</td><td>4B) Living Roots (4) d Soils (C6) 1) (LRR A)</td><td>(C3)</td><td>Water-Stained L (MLRA 1, 2, 4A, Drainage Patteri Dry-Season War Saturation Visibl Geomorphic Pos Shallow Aquitare FAC-Neutral Tes Raised Ant Mou</td><td>eaves (BS, and 4B) ns (B10) ter Table e on Aeria sition (D2) d (D3) st (D5) nds (D6) of mmocks (</td><td>(C2) al Image (LRR A)</td><td>ery (C9)</td><td>No</td></all>	wat apply)  Water-Stained Let (except MLRA 1, Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp. Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9) , 2, 4A, and arates (B13) e Odor (C1) pheres along uced Iron (Cauction in Tille ses Plants (D Remarks)	4B) Living Roots (4) d Soils (C6) 1) (LRR A)	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Patteri Dry-Season War Saturation Visibl Geomorphic Pos Shallow Aquitare FAC-Neutral Tes Raised Ant Mou	eaves (BS, and 4B) ns (B10) ter Table e on Aeria sition (D2) d (D3) st (D5) nds (D6) of mmocks (	(C2) al Image (LRR A)	ery (C9)	No
DROLOG etland Hy imary India Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund Spars eld Obser urface Wat ater Table turation P cludes cap	drology Indicators cators (minimum of ope 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 Aeriely Vegetated Concevations: er Present? Present?	ial Imager cave Surfa	y (B7) ace (B8) No No	⟨ all tha	wat apply)  Water-Stained Let (except MLRA 1, Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in  Depth (inche Depth (inche	eaves (B9) , 2, 4A, and eaves (B13) e Odor (C1) pheres along luced Iron (Cauction in Tille ses Plants (D Remarks)  ess):	4B) Living Roots (4) d Soils (C6) 1) (LRR A)	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Patteri Dry-Season Wa' Saturation Visibl Geomorphic Pos Shallow Aquitare FAC-Neutral Tes Raised Ant Mou Frost-Heave Hui	eaves (BS, and 4B) ns (B10) ter Table e on Aeria sition (D2) d (D3) st (D5) nds (D6) of mmocks (	(C2) al Image ) (LRR A)	ery (C9)	
DROLOG etland Hy imary India Surfac High V Satura Sedim Drift D Algal Iron D Surfac Inund Spars eld Obser urface Wat ater Table cludes ca	drology Indicators cators (minimum of oce 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 Aeriely Vegetated Concevations: er Present? Present? Yessent? Yessent?	ial Imager cave Surfa	y (B7) ace (B8) No No	⟨ all tha	wat apply)  Water-Stained Let (except MLRA 1, Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in  Depth (inche Depth (inche	eaves (B9) , 2, 4A, and eaves (B13) e Odor (C1) pheres along luced Iron (Cauction in Tille ses Plants (D Remarks)  ess):	4B) Living Roots (4) d Soils (C6) 1) (LRR A)	(C3)	Water-Stained L (MLRA 1, 2, 4A, Drainage Patteri Dry-Season Wa' Saturation Visibl Geomorphic Pos Shallow Aquitare FAC-Neutral Tes Raised Ant Mou Frost-Heave Hui	eaves (BS, and 4B) ns (B10) ter Table e on Aeria sition (D2) d (D3) st (D5) nds (D6) of mmocks (	(C2) al Image ) (LRR A)	ery (C9)	

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-12-23	<u>3</u>
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 8</u>	
Investigator(s):	J. Bartlett / B. Ruddick				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>EWM</u>	
Landform (hillslope, te	rrace, etc.): <u>valley</u>		Local	relief (conca	ve, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6	15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛚	No [ (If no, explain	in Remarks.)		
Are Vegetation ☐,	Soil ☐, or Hydrology	☐, significa	antly disturbed	? Are "N	lormal Circumstances" presen	t? Yes	⊠ No	
Are Vegetation ☐,	Soil ☐, or Hydrology	□, naturall	y problematic?	(If nee	eded, explain any answers in R	temarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🛛		lad Assa			
Hydric Soil Present?		Yes 🗌		ls the Sampl within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlen	neyer Road and	d Bond Road	between Poulsbo and Kingsto	n. The site is large so v	vas divided	into
three seg	ments, most of which are either cle	ear cut or fore	ested. Test Plo	t 8 was cond	ucted within the mapped strea	m along side the existing	g road.	
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: 30' diameter)	Absolute	Dominant	Indicator	Dominance Test Workshee	et:		
1		% Cover	Species?	<u>Status</u>				
2					Number of Dominant Specie That Are OBL, FACW, or FA			(A)
3					T. (1)			
4.					Total Number of Dominant Species Across All Strata:	<u>5</u>		(B)
50% =, 20% =	•		= Total Cove		Demonstrat Demoissant Consider	_		
·	<u> </u>		- Total Gove	•	Percent of Dominant Species That Are OBL, FACW, or FA			(A/B)
Gaultheria shallo	<del>_</del>	20	<u>yes</u>	FACU	Prevalence Index workshe			
Pseudotsuga mei	<del>-</del>	<u>15</u>		FACU	Total % Cover of		alv by:	
Cytisus scoparius		<u>15</u> 5	<u>yes</u> no	FACU	OBL species	<u>want</u> x1 =	ny by.	
4. <u>—</u>	<u>2</u>	<u>u</u>	110	17100	FACW species	x2 =		
5.					FAC species	_ x3 =		
50% = <u>20</u> , 20% = <u>8</u>		40	= Total Cove		FACU species	_ x4 =		
	zo: 10! diameter)	<del>40</del>	- Total Cove	•	UPL species	_ x5 =		
Herb Stratum (Plot si	· · · · · · · · · · · · · · · · · · ·	05		E40		_		<b>(5</b> )
Agrostis gigantea		<u>25</u>	<u>yes</u>	FAC	Column Totals:	(A)		(B)
2. <u>Hypochaeris radi</u>	<u>cata</u>	<u>15</u>	<u>yes</u>	<u>FACU</u>		ce Index = B/A =		
3. <u>Holcus lanatus</u>		<u>15</u>	<u>yes</u>	FACU	Hydrophytic Vegetation Inc			
4. Rubus ursinus		<u>10</u>	<u>no</u>	FACU	☐ 1 – Rapid Test for Hyd	-		
5. <u>Pteridium aquilinu</u>	<u>um</u>	<u>10</u>	<u>no</u>	<u>FACU</u>	2 - Dominance Test is	>50%		
6					☐ 3 - Prevalence Index is	; <u>&lt;</u> 3.0¹		
7						otations¹ (Provide suppo	rting	
8					data in Remarks or	on a separate sheet)		
9					☐ 5 - Wetland Non-Vascu	ılar Plants <sup>1</sup>		
10					☐ Problematic Hydrophyt	tic Vegetation¹ (Explain)		
11					1			
50% = <u>37.5,</u> 20% = <u>1</u>	<u>5</u>	<u>75</u>	= Total Cove	r	<sup>1</sup> Indicators of hydric soil and be present, unless disturbed		Į	
Woody Vine Stratum	(Plot size:)				,	<u>'</u>		
1								
2					Hydrophytic	V	NI.	
50% =, 20% =	:		= Total Cove	r	Vegetation Present?	Yes	No	
% Bare Ground in He	erb Stratum <u>50</u>							
	The hydrophytic vegetation criteria	is not met h	ecause there is	s less than 50	l 0% dominance by FAC plant sr	ecies.		
Remarks:	, a. op., , no rogotation officine			555 (1011 00	sommenoo by 1710 plant of			

SOIL Sampling Point: TP 8 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 7.5YR 3/2 sa si loam 0-2 100 2-16 10YR 4/2 <u>35</u> 10YR 5/2 <u>10</u> D M sa si loam 10YR 4/6 <u>45</u> si - silt sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Coun	ty: <u>Poulsbo/Kitsap</u>	Sampling Da	ite:	10-12-23	<u>3</u>
Applicant/Owner: <u>F</u>	Raydient				State: WA	Sampling Pol	int:	<u>TP 9</u>	
Investigator(s):	J. Bartlett / B. Ruddick				Section, Township, Ra	inge: <u>S 31 T 27</u>	7 N R 2 EV	NΜ	
Landform (hillslope, terra	ace, etc.): <u>valley</u>		Loca	al relief (conca	ave, convex, none): <u>convex</u>	<u>1</u>	Slope (	(%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	D	atum:		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6	315% slopes	<u>.</u>		NWI cla	assification:	<u>None</u>		
Are climatic / hydrologic	conditions on the site typical for	this time of y	ear? Y	es 🛛	No 🔲 (If no, explain	n in Remarks.)			
Are Vegetation ☐,	Soil □, or Hydrology	☐, significa	antly disturbed	l? Are "1	Normal Circumstances" preser	ıt?	Yes	⊠ No	
Are Vegetation ☐,	Soil □, or Hydrology	☐, naturall	y problematic	? (If nee	eded, explain any answers in f	Remarks.)			
SUMMARY OF FIND	DINGS – Attach site map sh	nowing sam	pling point	locations,	transects, important feat	ures, etc.			
Hydrophytic Vegetation	Present?	Yes	No 🛛	la 4h a Oassa	1 - d A				
Hydric Soil Present?		Yes	No 🖾	Is the Samp within a We			Yes	☐ No	
Wetland Hydrology Pres	sent?	Yes 🗌	No 🛛						
Remarks: North Kitsar	p United (NK United) is located a	along Stottlen	neyer Road an	nd Bond Road	between Poulsbo and Kingsto	on. The site is la	arge so wa	as divided	d into
three segme stream.	ents, most of which are either cl	ear cut or fore	ested. Test Pl	ot 9 was cond	lucted in the forest upslope of	the existing road	d and with	in the ma	apped
Sueam.									
/EGETATION - Use	scientific names of plants								
Tree Stratum (Plot size	e: <u>30' diameter</u> )	Absolute % Cover	Dominant Species?	Indicator <u>Status</u>	Dominance Test Workshe	et:			
Pseudotsuga menz	ziesii	<u> 15</u>	<u>yes</u>	FACU	Number of Dominant Specie	20			
2	<del></del>				That Are OBL, FACW, or FA		<u>1</u>		(A)
3.					Total Number of Dominant				
4.					Species Across All Strata:		<u>5</u>		(B)
50% = <u>7.5</u> , 20% = <u>3</u>		<u>15</u>	= Total Cove	 er	Percent of Dominant Specie	26			
<del>_</del>	(Plot size: <u>20' diameter</u> )	_			That Are OBL, FACW, or FA		<u>20</u>		(A/B)
Rubus spectabilis		<u>30</u>	<u>yes</u>	FAC	Prevalence Index workshe	et:			
2. Gaultheria shallon		20	yes	FACU	Total % Cover	of:	Multiply	v bv:	
3. Sambucus racemos		<u>15</u>	<u>yes</u>	FACU	OBL species		x1 =	<u> </u>	
4. Vaccinium ovatum		<u>5</u>	no no	FACU	FACW species	<del>_</del>	x2 =		
5.		_	_		FAC species	_	x3 =		
50% = <u>35</u> , 20% = <u>14</u>		70	= Total Cove	<u>—</u> er	FACU species	<del>_</del>	x4 =		
Herb Stratum (Plot size	e: 10' diameter)	<u></u>			UPL species	_	x5 =		
Polystichum munitu	· · · · · · · · · · · · · · · · · · ·	20	VAC	FACU		(A)	λο		(B)
·	<u> 1111                                </u>	<u>20</u>	<u>yes</u>		Column Totals:		_		(D)
2. <u>Rubus ursinus</u>		<u>10</u>	<u>yes</u>	<u>FACU</u>		ice Index = B/A =	<del></del> -		
3					Hydrophytic Vegetation In				
4					1 – Rapid Test for Hyd		ition		
5					2 - Dominance Test is	>50%			
6					3 - Prevalence Index i	s <u>&lt;</u> 3.0¹			
7					4 - Morphological Ada			ting	
8					data in Remarks or	on a separate s	sheet)		
9					☐ 5 - Wetland Non-Vaso	ular Plants¹			
10					☐ Problematic Hydrophy	rtic Vegetation¹ (	(Explain)		
11									
50% = <u>15</u> , 20% = <u>6</u>		<u>30</u>	= Total Cove	er	¹Indicators of hydric soil and be present, unless disturbed				
Woody Vine Stratum (F	Plot size:)				be present, unless disturbed	roi problematic.			
1									
2.				_	Hydrophytic				
50% = , 20% =			= Total Cove	—— er	Vegetation	Yes	]	No	
% Bare Ground in Herb					Present?				
		-:		- l #	20/ daminana   540   ;				
Remarks: Th	he hydrophytic vegetation criteria	a is not met b	ecause there i	is less than 50	0% dominance by FAC plant s	pecies.			

SOIL Sampling Point: TP 9 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 100 0-2 gr sa loam <u>2-6</u> 10YR 3/3 100 gr sa loam 6-7 10YR 3/2 100 gr sa loam 10YR 4/6 7-16 10YR 4/2 C 90 10 M gr sa loam gr - gravelly sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Red Parent Material (TF2) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) Thick Dark Surface (A12) <sup>3</sup>Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-12-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 10</u>	
Investigator(s):	J. Bartlett / B. Ruddick				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>WM</u>	
Landform (hillslope, te	rrace, etc.): <u>valley</u>		Local	l relief (conca	ive, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	-15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	Soil   , or Hydrology [	☐, significa	intly disturbed	? Are "N	Normal Circumstances" present	? Yes	⊠ No	
Are Vegetation ,	Soil   , or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in R	emarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🛛					
Hydric Soil Present?		Yes		Is the Sampl within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlem	eyer Road and	d Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided i	into
three seg stream.	ments, most of which are either cle	ar cut or fore	sted. Test Plo	ot 10 was con	ducted in the forest upslope of	the existing road and w	ithin the ma	pped
Sileaili.								
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: 30' diameter)	Absolute % Cover	Dominant Species?	Indicator <u>Status</u>	Dominance Test Workshee	t:		
Pseudotsuga mei	nziesii	15	<u>yes</u>	FACU	Number of Dominant Specie	e		
Tsuga heterophy	<u></u>	<u>15</u>	ves	FACU	That Are OBL, FACW, or FA			(A)
3.	_	_	<u></u>		Total Number of Dominant			
4.					Species Across All Strata:	<u>6</u>		(B)
50% = <u>15</u> , 20% = <u>6</u>		30	= Total Cove	 r	Percent of Dominant Species	:		
Sapling/Shrub Stratu	m (Plot size: <u>20' diameter</u> )				That Are OBL, FACW, or FA			(A/B)
1. Rubus spectabilis	<u>5</u>	<u>10</u>	<u>yes</u>	FAC	Prevalence Index workshe	et:		
2. Sambucus racem	nosa	<u>10</u>	<u>yes</u>	<u>FACU</u>	Total % Cover of	of: Multip	ly by:	
3					OBL species	x1 =		
4					FACW species	_ x2 =		
5					FAC species	_ x3 =		
50% = <u>10</u> , 20% = <u>4</u>		<u>20</u>	= Total Cove	r	FACU species	_ x4 =		
Herb Stratum (Plot si	ze: 10' diameter)				UPL species	x5 =		
Polystichum mun	itum	<u>20</u>	<u>yes</u>	<u>FACU</u>	Column Totals:	(A)	()	B)
Athyrium filix-fem		<u></u>	yes	FAC	-	ce Index = B/A =	\	,
3.		-	_		Hydrophytic Vegetation Inc			
4.					☐ 1 – Rapid Test for Hyd			
5					☐ 2 - Dominance Test is			
6.					☐ 3 - Prevalence Index is	~3 N1		
7.							etin a	
8.						otations¹ (Provide suppo on a separate sheet)	rung	
9.					☐ 5 - Wetland Non-Vascu	ılar Plants <sup>1</sup>		
10.						ic Vegetation¹ (Explain)		
11.					— Problematic пусторнус	c vegetation (Explain)		
50% = <u>12.5</u> , 20% = <u>5</u>		<u></u>	= Total Cove		<sup>1</sup> Indicators of hydric soil and		[	
Woody Vine Stratum		20	- Total Gove		be present, unless disturbed	or problematic.		
1.	(1 lot 3i20)							
2.					Hydrophytic			
50% = , 20% =			= Total Cove		Vegetation	Yes 🗆	No	$\boxtimes$
			- I Jiai Guve		Present?			
% Bare Ground in He	<u> </u>			1 "	00/ 1 '	<u> </u>		
Remarks:	The hydrophytic vegetation criteria	is not met be	ecause there is	s less than 50	)% dominance by FAC plant sp	ecies.		

SOIL Sampling Point: TP 10 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 0-6 100 gr sa loam 6-14 7.5YR 3/2 98 7.5YR 4/6 2 C gr sa loam m 14-18 10YR 2/2 85 10YR 4/2 <u>15</u> <u>C</u> Μ gr sa loam gr - gravelly sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site: <u>NK United</u>			City/Coun	ty: <u>Poulsbo/Kitsap</u> Sampling Date:	10-12-23
Applicant/Owner: Raydient				State: WA Sampling Point:	TP 11
Investigator(s): <u>J. Bartlett / B. Ruddick</u>				Section, Township, Range: S 31 T 27 N R 2 EV	<u>/M</u>
Landform (hillslope, terrace, etc.): valley		Loca	al relief (conca	ave, convex, none): <u>convex</u> Slope (	%): <u>5</u>
Subregion (LRR): MLRA 2	Lat:	_		Long: Datum:	_
Soil Map Unit Name: Poulsbo gravelly sandy loam, 6	15% slopes	<u>i</u>		NWI classification: None	
Are climatic / hydrologic conditions on the site typical for	this time of y	rear? Y	es 🛛	No	
Are Vegetation ☐, Soil ☐, or Hydrology	☐, signification ☐	antly disturbed	d? Are "N	Normal Circumstances" present? Yes	⊠ No □
Are Vegetation ☐, Soil ☐, or Hydrology	☐, naturall	y problematic	? (If nee	eded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh		· · · ·	locations,	transects, important features, etc.	
Hydrophytic Vegetation Present?	Yes 🗌	No ⊠	Is the Samp	led Area	_
Hydric Soil Present?	Yes 🗆	No 🛚	within a We		□ No ⊠
Wetland Hydrology Present?	Yes 🗌	No 🛚			
				between Poulsbo and Kingston. The site is large so was ducted in the forest upslope of the existing road and with	
stream.	ear cut or lore	ssieu. Tesi Fi	OL II Was COI	iducted in the lorest upslope of the existing road and with	in the mapped
VEGETATION – Use scientific names of plants	Absolute	Dominant	Indicator	T	
Tree Stratum (Plot size: 30' diameter)	% Cover	Species?	<u>Status</u>	Dominance Test Worksheet:	
1. <u>Pseudotsuga menziesii</u>	<u>10</u>	<u>yes</u>	<u>FACU</u>	Number of Dominant Species	(A)
2. <u>Alnus rubra</u>	<u>10</u>	<u>yes</u>	<u>FAC</u>	That Are OBL, FACW, or FAC:	( )
3				Total Number of Dominant	(B)
4				Species Across All Strata:	( )
50% = <u>10</u> , 20% = <u>4</u>	<u>20</u>	= Total Cov	er	Percent of Dominant Species That Are OBL, FACW, or FAC:  50	(A/B)
Sapling/Shrub Stratum (Plot size: 20' diameter)				· · · ·	
1. Rubus spectabilis	<u>20</u>	<u>yes</u>	FAC	Prevalence Index worksheet:	
2. <u>Sambucus racemosa</u>	<u>10</u>	<u>yes</u>	<u>FACU</u>	Total % Cover of: Multiply	<u>by:</u>
3				OBL species	
4 5.				· —	<u>165</u>
	20	= Total Cove	<del></del>	_	
50% = <u>15</u> , 20% = <u>6</u>	<u>30</u>	- Total Cov	σI	_	200
Herb Stratum (Plot size: 10' diameter)	20		FACIL	UPL species x5 =	265 (D)
1. Polystichum munitum	<u>30</u>	<u>yes</u>	<u>FACU</u>	Column Totals: 105 (A)	<u>365</u> (B)
2. Athyrium filix-femina	<u>20</u>	<u>yes</u>	FAC	Prevalence Index = B/A = 3.48	
3. <u>Blechnum spicant</u>	<u>5</u>	<u>no</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators:	
4				☐ 1 – Rapid Test for Hydrophytic Vegetation☐ 2 - Dominance Test is >50%	
5					
6				☐ 3 - Prevalence Index is ≤3.01	
7				4 - Morphological Adaptations¹ (Provide supporti data in Remarks or on a separate sheet)	ıg
8 9.				5 - Wetland Non-Vascular Plants <sup>1</sup>	
10.					
11.				☐ Problematic Hydrophytic Vegetation¹ (Explain)	
50% = 27.5, 20% = 11	<u></u>	= Total Cov	<del></del>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
Woody Vine Stratum (Plot size: )	<u>55</u>	- Total Covi	51	be present, unless disturbed or problematic.	
1					
2				Hydrophytic	
50% =, 20% =		= Total Cov		Vegetation Yes □	No 🛛
		- Total Cov	51	Present?	
% Bare Ground in Herb Stratum <u>45</u>					
Remarks: The hydrophytic vegetation criterion	a is not met b	ecause the pr	evalence inde	ex was greater than 3.0.	

SOIL Sampling Point: TP 11 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 fi sa loam 0-2 100 2-13 10YR 3/2 97 10YR 3/6 3 C fi sa loam m 13-18 10YR 4/3 90 10YR 4/6 <u>10</u> <u>C</u> Μ fi sa loam fi - fine sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-12-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	TP 12	
Investigator(s):	J. Bartlett / B. Ruddick				Section, Township, Ra	nge: <u>S 31 T 27 N R 2 E</u>	<u>.WM</u>	
Landform (hillslope, te	errace, etc.): <u>valley</u>		Loca	l relief (conca	ve, convex, none): <u>convex</u>	Slope	(%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛚	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	, Soil □, or Hydrology [	☐, significa	ntly disturbed	? Are "N	lormal Circumstances" presen	t? Yes	☑ No	
Are Vegetation	, Soil $\square$ , or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in F	emarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🖾		leaf Arres			
Hydric Soil Present?		Yes 🗌		Is the Sampl within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlem	eyer Road and	d Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided	into
three seg site condi	ments, most of which are either cle	ear cut or fore	sted. Test Plo	ot 12 is locate	d within a ravine where a strea	m is not mapped or pres	ent based	on
Site Collui								
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot si	ze: <u>30' diameter</u> )	Absolute	Dominant Species 2	Indicator	Dominance Test Workshee	t:		
1. <i>Thuja plicata</i>		<u>% Cover</u> 25	Species? yes	Status FAC	Number of Deminant Specie	6		
2			<u> </u>		Number of Dominant Specie That Are OBL, FACW, or FA			(A)
3.					Total Number of Dominant			
4.					Species Across All Strata:	<u>2</u>		(B)
50% = <u>12.5</u> , 20% = <u>5</u>	j	25	= Total Cove		Percent of Dominant Species			
	<u>m</u> (Plot size: <u>20' diameter</u> )	_			That Are OBL, FACW, or FA			(A/B)
1					Prevalence Index workshe	et:		
2					Total % Cover of		lv bv:	
3					OBL species	x1 =	<u>, ~, .</u>	
4					FACW species	x2 =		
5.			·		FAC species 25	- x3 =	<u>75</u>	
50% =, 20% =	:		= Total Cove		FACU species 15	x4 =	<u>60</u>	
Herb Stratum (Plot si					UPL species	x5 =		
Polystichum mun	·	<u>15</u>	<u>yes</u>	FACU		_	135 (B)	
	<u>itam</u>	10	<u>yes</u>	<u>1 AOO</u>		nce Index = B/A = <u>3.38</u>	<u>133</u> (B)	
2								
3					Hydrophytic Vegetation Inc			
· ·					<ul><li>☐ 1 – Rapid Test for Hyd</li><li>☐ 2 - Dominance Test is</li></ul>			
5								
6					☐ 3 - Prevalence Index is	<u>&lt;</u> 3.0¹		
7						otations <sup>1</sup> (Provide suppor on a separate sheet)	ting	
8					_			
9					5 - Wetland Non-Vascu	ılar Plants'		
10					☐ Problematic Hydrophyl	ic Vegetation¹ (Explain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must		
50% = <u>7.5,</u> 20% = <u>3</u>		<u>15</u>	= Total Cove	r	be present, unless disturbed			
Woody Vine Stratum	_(Plot size:)							
1					Hardwan kardin			
2					Hydrophytic Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% =	·		= Total Cove	r	Present?			
% Bare Ground in He	erb Stratum <u>85</u>							
Remarks:	The hydrophytic vegetation criteria	is not met be	ecause the pre	valence inde	x was greater than 3.0.			

nches)	0.1. ( : 1)	0/			. ()		1 2	,		_			
	Color (moist)	<u>%</u>		olor (mo	oist) %	Type <sup>1</sup>	Loc²	Texture		Rem	narks		
<u>0-3</u> <u>3-6</u>	<u>10YR 2/2</u> 10YR 4/4	<u>100</u> 100						<u>sa loam</u> gr sa loam					
<u>5-0</u> 6-16	10YR 5/1	95		10YR 5/	<u>——</u> /6 <u>5</u>		<u>M</u>	fi sa loam	cobbles pres	ent			
<u>0 10</u>	101110/1	<u>00</u>	-	011(0)	<u> </u>	<u> </u>	<u></u>	<u>II da Idaili</u>	000000000000	OIIL			
			_						gr - gravelly				
			_						fi - fine				
			_						sa -sandy				
me: C= Co	 ncentration_D=De	nletion F	– ≀M=Reduc	ed Mat	rix, CS=Covered or	Coated Sand	 I Grains <sup>2</sup> I	 ocation: PL=Por	e Lining M=Mat	trix RC=I	Root (	Channe	el .
•	•				otherwise noted.)				rs for Problema				
Histoso	I (A1)				Sandy Redox (S5	i)		□ 2	cm Muck (A10)				
Histic E	pipedon (A2)				Stripped Matrix (S	36)		□R	led Parent Mate	rial (TF2)			
Black H	listic (A3)				Loamy Mucky Mir	neral (F1) (ex	cept MLRA 1)	□ V	ery Shallow Dar	k Surface	e (TF1	12)	
Hydrog	en Sulfide (A4)				Loamy Gleyed Ma	atrix (F2)			ther (Explain in	Remarks	s)		
Deplete	d Below Dark Surf	ace (A11	)		Depleted Matrix (I	F3)							
Thick D	ark Surface (A12)				Redox Dark Surfa	ace (F6)							
Sandy I	Mucky Mineral (S1)	)			Depleted Dark Su	ırface (F7)			rs of hydrophytic				
Sandy (	Gleyed Matrix (S4)				Redox Depression	ns (F8)			nd hydrology mu s disturbed or pi				
estrictive L	ayer (if present):												
pe:													
nth (inches													
	-	ets none	of the hy	dric soil	l indicators because	of the high m	Hydric Soils F natrix colors.	Present?	Ye	es [	<u> </u>	No	
emarks:	This soil profile me	ets none	of the hy	dric soil	l indicators because	of the high m	•	Present?	Ye	es [		No	
emarks:  DROLOG <sup>3</sup> Vetland Hyd	This soil profile me	:				of the high m	•						
DROLOG /etland Hyd	This soil profile me  Y  rology Indicators: ators (minimum of o	:		k all tha	at apply)		•	Secondary	y Indicators (2 o	r more re			
DROLOG` /etland Hyd rimary Indica	Y rology Indicators: ators (minimum of de Water (A1)	:			at apply) Water-Stained Le	eaves (B9)	natrix colors.	Secondary □ Wate	y Indicators (2 or er-Stained Leave	r more re			
DROLOG` /etland Hyd rimary Indica ] Surface ] High W	Y rology Indicators: ators (minimum of of the Water (A1) //ater Table (A2)	:		k all tha	at apply) Water-Stained Le (except MLRA 1,	eaves (B9)	natrix colors.	Secondary	/ Indicators (2 or er-Stained Leave RA 1, 2, 4A, and	r more re es (B9)			
DROLOGY  /etland Hyd  rimary Indica  Surface  High W  Satural	Y rology Indicators: ators (minimum of of the Water (A1) /ater Table (A2) tion (A3)	:		k all tha	at apply)  Water-Stained Le  (except MLRA 1, Salt Crust (B11)	eaves (B9) . <b>2, 4A, and 4</b>	natrix colors.	Secondary  Wate  (MLI	/ Indicators (2 or er-Stained Leav RA 1, 2, 4A, and mage Patterns (E	r more re es (B9) d <b>4B)</b> 310)	quired		]
DROLOGY /etland Hyd rimary Indica   Surface   High W   Satural	Y rology Indicators: ators (minimum of de Water (A1) //ater Table (A2) tion (A3) Marks (B1)	:		k all tha	at apply)  Water-Stained Le  (except MLRA 1,  Salt Crust (B11)  Aquatic Invertebra	eaves (B9) <b>. 2, 4A, and 4</b> ates (B13)	natrix colors.	Secondary  Wate (MLi	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T	r more re es (B9) d <b>4B)</b> 310) Table (C2	quirec	1)	
DROLOG' Vetland Hyd rimary Indica Surface High W Saturat Water I Sedime	rology Indicators: ators (minimum of ce Water (A1) //ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	:		k all tha	at apply)  Water-Stained Le  (except MLRA 1,  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide	eaves (B9)  , 2, 4A, and 4  ates (B13)  Odor (C1)	natrix colors.	Secondary Wate (MLI Drain Dry-	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T aration Visible or	r more rees (B9) d <b>4B)</b> 310) able (C2	quirec	1)	
DROLOG' /etland Hyd rimary Indica   Surface   High W   Saturat   Water I   Sedime   Drift De	rology Indicators: ators (minimum of ce Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	:		k all tha	at apply)  Water-Stained Le  (except MLRA 1,  Salt Crust (B11)  Aquatic Invertebra  Hydrogen Sulfide  Oxidized Rhizosp	eaves (B9)  , 2, 4A, and 4  ates (B13)  Odor (C1)  wheres along L	natrix colors.  IB)	Secondary Wate (MLI Drain Dry-	/ Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T uration Visible or morphic Positior	r more re es (B9) d <b>4B)</b> 310) Table (C2 o Aerial In	quirec	1)	
DROLOG' /etland Hyd rimary Indica   Surface   High W   Satural   Water I   Sedime   Drift De	This soil profile me  Y  rology Indicators: ators (minimum of of a water (A1) /ater Table (A2) cion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)	:		k all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	eaves (B9)  2, 4A, and 4  ates (B13)  Odor (C1)  wheres along L  uced Iron (C4)	natrix colors.  IB)  Living Roots (C3	Secondary   Wate	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T gration Visible or morphic Position llow Aquitard (D:	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2)	quirec	1)	
PROLOGY  Vetland Hyd  rimary Indica  Surface  High W  Saturat  Water I  Sedime  Drift De  Algal M  Iron De	This soil profile me  Y  rology Indicators: ators (minimum of of the Water (A1) //ater Table (A2) //sion (A3)  Marks (B1) //ent Deposits (B2) //eposits (B3) //lat or Crust (B4) //eposits (B5)	:		k all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	paves (B9)  2, 4A, and 4  ates (B13)  Odor (C1)  oheres along L  uced Iron (C4)	BB) Living Roots (C3	Secondary	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T iration Visible or morphic Position llow Aquitard (Di -Neutral Test (D	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2) 33)	quired ) nager	1)	
DROLOG' Vetland Hyd rimary Indica High W Saturat Water I Sedima Drift De Algal M Iron De	rology Indicators: ators (minimum of of the Water (A1) futer Table (A2) fion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6)	: one requi	ired; checl	k all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9)  2, 4A, and 4  ates (B13)  Odor (C1)  wheres along Leced Iron (C4)  cuction in Tilled  es Plants (D1)	BB) Living Roots (C3	Secondary	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T irration Visible or morphic Position llow Aquitard (Di -Neutral Test (Di ed Ant Mounds	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2) 3) 15) (D6) (LR	quired ) nager	1)	1
DROLOG' /etland Hyd rimary Indica   Surface   High W   Saturat   Water I   Sedime   Drift De   Algal M   Iron De   Surface   Inunda	rology Indicators: ators (minimum of ce Water (A1) vater Table (A2) vition (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeric	: one requi	ired; checl	k all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	eaves (B9)  2, 4A, and 4  ates (B13)  Odor (C1)  wheres along Leced Iron (C4)  cuction in Tilled  es Plants (D1)	BB) Living Roots (C3	Secondary	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T iration Visible or morphic Position llow Aquitard (Di -Neutral Test (D	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2) 3) 15) (D6) (LR	quired ) nager	1)	1
DROLOGY /etland Hyd rimary Indica   Surface   High W   Satural   Water I   Sedime   Drift De   Algal M   Iron De   Surface	rology Indicators: ators (minimum of of e Water (A1) /ater Table (A2) ction (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aericly Vegetated Conc	: one requi	ired; checl	k all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	eaves (B9)  2, 4A, and 4  ates (B13)  Odor (C1)  wheres along Leced Iron (C4)  cuction in Tilled  es Plants (D1)	BB) Living Roots (C3	Secondary	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T irration Visible or morphic Position llow Aquitard (Di -Neutral Test (Di ed Ant Mounds	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2) 3) 15) (D6) (LR	quired ) nager	1)	
DROLOG' Vetland Hyd rimary Indica Surface High W Saturat Sedime Drift De Algal M Iron De Surface	rology Indicators: ators (minimum of of ewater (A1) rater Table (A2) cion (A3) Marks (B1) ent Deposits (B2) exposits (B3) lat or Crust (B4) exposits (B5) exposits (B5) exposits (B5) exposits (B5) exposits (B6) tion Visible on Aericly Vegetated Concations:	: one requi	ry (B7)	k all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9)  2, 4A, and 4  ates (B13)  Odor (C1)  wheres along L  uced Iron (C4)  uction in Tilled  es Plants (D1  Remarks)	BB) Living Roots (C3	Secondary	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T irration Visible or morphic Position llow Aquitard (Di -Neutral Test (Di ed Ant Mounds	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2) 3) 15) (D6) (LR	quired ) nager	1)	
DROLOGY  Vetland Hyd  rimary Indica  Surface  High W  Saturat  Sedime  Drift De  Algal M  Iron De  Surface  Inunda  Sparse  ield Observ  urface Wate	This soil profile me  This soil profile me	: one requi ial Image ave Surfa	ry (B7) ace (B8)	k all tha	water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	paves (B9)  2, 4A, and 4  ates (B13)  Odor (C1)  wheres along Luced Iron (C4)  iction in Tilled  es Plants (D1  Remarks)	BB) Living Roots (C3	Secondary	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T irration Visible or morphic Position llow Aquitard (Di -Neutral Test (Di ed Ant Mounds	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2) 3) 15) (D6) (LR	quired ) nager	1)	1
DROLOG' //etland Hyd //etland Hyd //imary Indica   Surface   High W   Saturat   Water I   Sedime   Drift De   Algal M   Iron De   Inunda   Sparse //ield Observ //ater Table F	rology Indicators: ators (minimum of ote Water (A1) dater Table (A2) dion (A3) Marks (B1) ent Deposits (B2) eposits (B3) dat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeri ly Vegetated Conc ations: r Present? Y	: one requi ial Image ave Surfa	ry (B7)	k all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	paves (B9)  2, 4A, and 4  ates (B13)  Odor (C1)  wheres along Luced Iron (C4)  iction in Tilled  es Plants (D1  Remarks)	BB) Living Roots (C3	Secondary	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T irration Visible or morphic Position llow Aquitard (Di -Neutral Test (Di ed Ant Mounds	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2) 3) 15) (D6) (LR	quired ) nager	1)	
VDROLOG' Vetland Hyd Vetland Hyd Vetland High W Satural Water I Sedime Drift De Surface Inunda Sparse Vetland Deserv Vetrace Water I	This soil profile me  This soil profile me  Tology Indicators: ators (minimum of of the Water (A1)  Vater Table (A2) cion (A3)  Marks (B1) cent Deposits (B2) ceposits (B3)  Lat or Crust (B4) ceposits (B5) ce Soil Cracks (B6) tion Visible on Aericly Vegetated Concustions:  The Present?  Present?  Yesent?	: one requi	ry (B7) ace (B8)	k all tha	water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	eaves (B9)  2, 4A, and 4  ates (B13)  Odor (C1)  wheres along L  uced Iron (C4)  action in Tilled  es Plants (D1  Remarks)  s):   s):	Living Roots (C3	Secondary	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T irration Visible or morphic Positior llow Aquitard (Di -Neutral Test (Di ed Ant Mounds t-Heave Hummo	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2) 3) 15) (D6) (LR	quirec ) nager	1)	
/DROLOGY Vetland Hyd Primary Indica Surface High W Saturat Sedime Sedime Iron De Inunda Sparse Field Observ Surface Water Vater Table Featuration Prencludes capi	This soil profile me  This soil profile me  This soil profile me  Trology Indicators: ators (minimum of of the Water (A1)  Vater Table (A2) ator (A3)  Marks (B1) and Deposits (B2) ator Crust (B4) aposits (B3) ator Crust (B4) aposits (B5) a Soil Cracks (B6) ation Visible on Aerially Vegetated Concustions: ations: The Present?  Yeresent?	: one requi ial Image cave Surfa /es [ /es [ /es [	ry (B7) ace (B8) No No	k all tha	at apply)  Water-Stained Le (except MLRA 1, Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	paves (B9)  1.2, 4A, and 4  ates (B13)  Odor (C1)  oheres along L  uced Iron (C4)  iction in Tilled  es Plants (D1  Remarks)  s):  s):  s):	Living Roots (C3 2) d Soils (C6) 1) (LRR A)	Secondary Wate (MLI Drain Satu Shal FAC Rais	y Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T irration Visible or morphic Positior llow Aquitard (Di -Neutral Test (Di ed Ant Mounds t-Heave Hummo	r more rees (B9) d 4B) 310) Table (C2 n Aerial In n (D2) 3) (D6) (LR	quirec ) nager	y (C9)	

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-12-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	TP 13	
Investigator(s):	J. Bartlett / B. Ruddick				Section, Township, Ra	nge: <u>S 31 T 27 N R 2 E</u>	<u>EWM</u>	
Landform (hillslope, te	errace, etc.): <u>valley</u>		Local	relief (conca	ave, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6	15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	, Soil □, or Hydrology	☐, significa	intly disturbed?	? Are "N	Normal Circumstances" presen	t? Yes	☑ No	
Are Vegetation ,	, Soil □, or Hydrology	☐, naturall	y problematic?	(If nee	eded, explain any answers in F	.emarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🛛					
Hydric Soil Present?		Yes 🗌		ls the Samp within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlem	eyer Road and	d Bond Road	between Poulsbo and Kingsto	n. The site is large so v	vas divided	into
	ments, most of which are either cle		sted. Test Plo	t 13 is locate	ed downslope of Test Plot 12 a	nd within a ravine where	a stream is	s not
тарреч с	or present based on site conditions	•						
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	•	Absolute	Dominant	Indicator	Dominance Test Workshee	et:		
1. Alnus rubra	<u></u> ,	<u>% Cover</u> 25	Species?	Status FAC				
2. Thuja plicata		<u>10</u>	<u>yes</u> <u>yes</u>	FAC	Number of Dominant Specie That Are OBL, FACW, or FA			(A)
3. Tsuga heterophy	lla	<u>10</u> 10	<u>yes</u> yes	FACU				
4.	<u>na</u>	10	<u>ycs</u>	17100	Total Number of Dominant Species Across All Strata:	<u>6</u>		(B)
50% = <u>22.5,</u> 20% = <u>9</u>	)	<u>45</u>	= Total Cover		Developt of Deminant Charles	_		
	<u>m</u> (Plot size: <u>20' diameter</u> )	<del>10</del>	- Total Cove	•	Percent of Dominant Species That Are OBL, FACW, or FA			(A/B)
Rubus spectabilis		<u>15</u>	<u>yes</u>	FAC	Prevalence Index workshe			
2	<u>2</u>	10	<u>ycs</u>	1710	Total % Cover of		alv hv	
3					OBL species	<u>wanap</u> x1 =	iy by.	
4					FACW species	x2 =		
5.					FAC species 50	x3 =	150	
50% = <u>7.5,</u> 20% = <u>3</u>		<u>15</u>	= Total Cover		FACU species 80	x4 =	240	
Herb Stratum (Plot si	izo: 10' diameter)	<u>10</u>	- Total Cove	•	UPL species	x5 =	240	
	ze. 10 diameter)	E0		FACIL	100	_	200 (D)	
1. <u>Rubus ursinus</u>	9	<u>50</u>	<u>yes</u>	<u>FACU</u>	Column Totals: 130		390 (B)	
2. <u>Polystichum mun</u>	<u>itum</u>	<u>20</u>	<u>yes</u>	<u>FACU</u>		nce Index = B/A = <u>3.0</u>		
3					Hydrophytic Vegetation Inc			
4					1 – Rapid Test for Hyd	· ·		
5					2 - Dominance Test is	>50%		
6			_		□ 3 - Prevalence Index is	<u>&lt;</u> 3.0¹		
7						otations¹ (Provide suppo	rting	
8					uata ili Kelilaiks oi	on a separate sheet)		
9					5 - Wetland Non-Vascu	ılar Plants <sup>1</sup>		
10					☐ Problematic Hydrophyt	ic Vegetation¹ (Explain)		
11					1 Indicators of budgie soil and	wetlend hydrology maye		
50% = <u>35</u> , 20% = <u>14</u>		<u>70</u>	= Total Cover	r	<sup>1</sup> Indicators of hydric soil and be present, unless disturbed		1	
Woody Vine Stratum	(Plot size:)							
1								
2					Hydrophytic Vegetation	Yes 🛛	No	
50% =, 20% =	:		= Total Cover	r	Present?		110	
% Bare Ground in He	erb Stratum <u>30</u>							
Remarks:	The hydrophytic vegetation criteria	is met in this	test plot beca	use the prev	alence index less than or equa	I to 3.0.	-	

SOIL Sampling Point: TP 13 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 0-2 100 sa loam 2.5Y 4/4 2-16 <u>100</u> gr sa loam gr - gravelly sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site: <u>NK United</u>			City/Count	ty: <u>Poulsbo/Kitsap</u> Sampling Date: <u>10</u>	<u>-12-23</u>
Applicant/Owner: Raydient				State: <u>WA</u> Sampling Point: <u>TF</u>	14
Investigator(s): J. Bartlett / B. Ruddick				Section, Township, Range: S 31 T 27 N R 2 EWM	<u> </u>
Landform (hillslope, terrace, etc.): valley		Loca	l relief (conca	eve, convex, none): <u>convex</u> Slope (%)	: <u>5</u>
Subregion (LRR): MLRA 2	Lat:	_		Long: Datum:	_
Soil Map Unit Name: Poulsbo gravelly sandy loam, 6	15% slopes	<u>i</u>		NWI classification: None	
Are climatic / hydrologic conditions on the site typical for	this time of y	rear? Ye	es 🛛	No (If no, explain in Remarks.)	
Are Vegetation ☐, Soil ☐, or Hydrology	☐, signification ☐	antly disturbed	? Are "N	Normal Circumstances" present? Yes ⊠	No 🗆
Are Vegetation ☐, Soil ☐, or Hydrology	□, naturall	y problematic?	(If nee	eded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	owing san	pling point	locations,	transects, important features, etc.	
Hydrophytic Vegetation Present?	Yes	No 🛛	Is the Samp	lad Area	
Hydric Soil Present?	Yes		within a Wet		No 🛛
Wetland Hydrology Present?	Yes	No 🛛			
				between Poulsbo and Kingston. The site is large so was o	
three segments, most of which are either clean trough.	ear cut or fore	ested. Test Plo	ot 14 is locate	ed in a forested portion of the south segment and within a to	pographic
<u> </u>					
VEGETATION – Use scientific names of plants					
Tree Stratum (Plot size: 30' diameter)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	
1. <u>Pseudotsuga menziesii</u>	<u>15</u>	yes	FACU	Number of Dominant Species	(4)
2				That Are OBL, FACW, or FAC:	(A)
3				Total Number of Dominant	(D)
4				Species Across All Strata:	(B)
50% = <u>7.5,</u> 20% = <u>3</u>	<u>15</u>	= Total Cove	r	Percent of Dominant Species	(A/B)
Sapling/Shrub Stratum (Plot size: 20' diameter)				That Are OBL, FACW, or FAC:	(7/0)
1. Rubus spectabilis	<u>5</u>	<u>yes</u>	<u>FAC</u>	Prevalence Index worksheet:	
2. <u>Sambucus racemosa</u>	<u>5</u>	<u>yes</u>	<u>FACU</u>	Total % Cover of: Multiply by	<u>r:</u>
3				OBL species x1 =	
4				FACW species x2 =	
5				FAC species x3 =	
50% = <u>5</u> , 20% = <u>2</u>	<u>10</u>	= Total Cove	r	FACU species x4 =	
Herb Stratum (Plot size: 10' diameter)				UPL species x5 =	
1. Polystichum munitum	<u>20</u>	<u>yes</u>	<u>FACU</u>	Column Totals:(A)	(B)
2				Prevalence Index = B/A =	
3				Hydrophytic Vegetation Indicators:	
4				☐ 1 – Rapid Test for Hydrophytic Vegetation	
5				☐ 2 - Dominance Test is >50%	
6				☐ 3 - Prevalence Index is ≤3.0¹	
7				4 - Morphological Adaptations¹ (Provide supporting	
8				data in Remarks or on a separate sheet)	
9				☐ 5 - Wetland Non-Vascular Plants¹	
10				☐ Problematic Hydrophytic Vegetation¹ (Explain)	
11					
50% = <u>10</u> , 20% = <u>4</u>	<u>20</u>	= Total Cove	r	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size:)				be present, unless disturbed of problematic.	
1					
2				Hydrophytic	_
50% =, 20% =		= Total Cove	r	Vegetation   Yes	lo 🛚
% Bare Ground in Herb Stratum 75				i rossiiti	
The hydrophytic vegetation criteria	a is not met in	this test plot b	ecause there	Le was less than 50% dominance by FAC species.	
Remarks:		1001 piot b			

SOIL Sampling Point: TP 14 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 3/3 0-4 100 fi sa loam <u>4-16</u> 10YR 4/4 <u>100</u> fi sa loam fi - fine sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site: <u>NK United</u>				City/Coun	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	<u>10-</u>	<u>12-23</u>	
Applicant/Owner: Raydient					State: W/	A Sampling Point	: <u>TP</u>	<u> 15</u>	
Investigator(s): J. Bartlett /	B. Ruddick				Section, Township,	Range: <u>S 31 T 27 N</u>	IR2EWM		
Landform (hillslope, terrace, etc.):	<u>valley</u>		Loca	al relief (conca	ave, convex, none): conv	<u>vex</u>	Slope (%):	<u>5</u>	
Subregion (LRR): MLRA 2		Lat:			Long:	Date	um:		
Soil Map Unit Name: Poulsbo	gravelly sandy loam, 6-	-15% slopes	<u>s</u>		NW	l classification: No	<u>one</u>		
Are climatic / hydrologic conditions	on the site typical for	this time of y	/ear? Y	es 🛚	No ☐ (If no, exp	lain in Remarks.)			
Are Vegetation ☐, Soil [	☐, or Hydrology [	☐, signific	antly disturbed	l? Are "I	Normal Circumstances" pre	sent?	Yes 🛛	No	
Are Vegetation ☐, Soil [	☐, or Hydrology 【	☐, natural	ly problematic	? (If ne	eded, explain any answers	in Remarks.)			
SUMMARY OF FINDINGS - A	Attach site map sh	owing san	npling point	locations,	transects, important for	eatures, etc.			
Hydrophytic Vegetation Present?		Yes 🗆	No ⊠	,	· · ·	· · · · · · · · · · · · · · · · · · ·			
Hydric Soil Present?		Yes 🗆	No 🛛	Is the Samp			Yes □	No	$\boxtimes$
Wetland Hydrology Present?		Yes 🗆		within a We	tiand?		_		
	JIV I Inited \ in Incated a			d Dand Dand	Lhatwaan Daulaha and Kine	matan. The site is larg		uidad	into
Remarks: North Kitsap United (North Kitsap United (					slope of Test Plot 14 within			vided	irito
					•		J		
VEGETATION – Use scientific		Absolute	Dominant	Indicator					
Tree Stratum (Plot size: 30' diame	<u>eter</u> )	% Cover	Species?	<u>Status</u>	Dominance Test Works	heet:			
1. Pseudotsuga menziesii		<u>25</u>	<u>yes</u>	<u>FACU</u>	Number of Dominant Spe		<u>0</u>		(A)
2					That Are OBL, FACW, or	FAC:	<u>u</u>		(八)
3					Total Number of Domina	nt	6		(D)
4					Species Across All Strata	<b>1</b> :	<u>6</u>		(B)
50% = <u>12.5,</u> 20% = <u>5</u>		<u>25</u>	= Total Cove	er	Percent of Dominant Spe	ecies	0		(A /D)
Sapling/Shrub Stratum (Plot size:	20' diameter)				That Are OBL, FACW, or	FAC:	<u>0</u>		(A/B)
1. <u>Sambucus racemosa</u>		<u>15</u>	<u>yes</u>	<u>FACU</u>	Prevalence Index works	sheet:			
2. <u>Vaccinium parvifolium</u>		<u>10</u>	<u>yes</u>	<u>FACU</u>	Total % Cov	<u>er of:</u>	Multiply by:	<u>.</u>	
3. <u>Gaultheria shallon</u>		<u>10</u>	<u>yes</u>	<u>FACU</u>	OBL species		x1 =		
4			<u> </u>		FACW species		x2 =		
5					FAC species		x3 =		
50% = <u>17.5,</u> 20% = <u>7</u>		<u>35</u>	= Total Cove	ər	FACU species		x4 =		
Herb Stratum (Plot size: 10' diam	eter)	_			UPL species		x5 =		
Polystichum munitum		<u>35</u>	<u>yes</u>	FACU	_	(A)		(	'R)
Rubus ursinus					Column Totals:				υ)
' <u></u>		<u>15</u>	<u>yes</u>	<u>FACU</u>		lence Index = B/A = _			
3					Hydrophytic Vegetation				
4					I = '	Hydrophytic Vegetatio	л		
5					2 - Dominance Tes	t is >50%			
6					☐ 3 - Prevalence Inde	ex is <u>&lt;</u> 3.0 <sup>1</sup>			
7						Adaptations¹ (Provide			
8					data in Remarks	s or on a separate she	et)		
9					5 - Wetland Non-Va	ascular Plants <sup>1</sup>			
10					☐ Problematic Hydro	phytic Vegetation¹ (Ex	(plain)		
11					4				
50% = <u>25,</u> 20% = <u>10</u>		<u>50</u>	= Total Cove	er	<sup>1</sup> Indicators of hydric soil a be present, unless distur		/ must		
Woody Vine Stratum (Plot size: _	)								
1									
2					Hydrophytic	_			_
50% =, 20% =			= Total Cove	er	Vegetation	Yes 🗆	No	0	$\boxtimes$
% Bare Ground in Herb Stratum 7	75	<del></del>			Present?				
The hydrank		is not mot in	this tost plat	hacausa the	a was less than 50% domin	Jance by EAC EACIAL	and OPL a	necic	
Remarks:	iyuc vegetation criteria	is not met li	i uns test plot	pecause iner	e was less than 50% domin	ance by FAC, FACVV,	and OBL S	hecies	o.

SOIL Sampling Point: TP 15 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 <u>0-8</u> 100 gr sa loam <u>8-16</u> 10YR 4/4 <u>100</u> gr sa loam gr - gravelly sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Applicant/Owner:																
Application Owner.	Raydient								S	tate: <u>WA</u>	Sa	mpling F	Point:	TP 1	1 <u>6a</u>	
Investigator(s):	J. Bartlett, C. B	<u>Bartlett</u>						;	Section, To	ownship, Ra	ange:	S 31 T	27 N R 2	<u>EWM</u>		
Landform (hillslope, te	rrace, etc.):	<u>Hillslope</u>				Loc	al relief (conc	ave, con	vex, none)	: convex	<u> </u>		Slope	e (%):	<u>5</u>	
Subregion (LRR):	MLRA 2		Lat:		_			Long	j:				Datum:			
Soil Map Unit Name:	Poulsbo grave	elly sandy loam,	615% sl	opes						NWI cl	assific	ation:	None			
Are climatic / hydrolog	ic conditions on	the site typical fo	or this time	e of ye	ear?	Υ	∕es ⊠	No	□ (I	lf no, explaii	n in Re	emarks.)				
Are Vegetation ☐,	Soil □,	or Hydrology	□, sig	gnifica	ntly di	sturbe	d? Are "	Normal C	Circumstar	nces" presei	nt?		Yes	$\boxtimes$	No	
Are Vegetation ☐,	Soil □,	or Hydrology	□, na	turally	probl	ematic	? (If ne	eded, ex	cplain any	answers in l	Remar	ks.)				
SUMMARY OF FIN	IDINGS – Atta	ich site map s	howing	sam	pling	poin	t locations,	transe	cts, imp	ortant fea	tures	, etc.				
Hydrophytic Vegetation	n Present?		Yes		No	$\boxtimes$	la tha Camn	lad Ara	•							
Hydric Soil Present?			Yes		No	$\boxtimes$	Is the Samp		a				Yes		No	$\boxtimes$
Wetland Hydrology Pro	esent?		Yes		No	$\boxtimes$										
Remarks: North Kits																
three segi	ments, most of w	vhich are either o	lear cut o	r fore	sted.	Test P	lot 16a is loca	ted in the	e South Se	egment nea	r the s	outhern	most map	ped str	eam.	
/EGETATION - Us	e scientific na	ames of plants						1								
Tree Stratum (Plot size	ze: <u>30' diameter</u> )	)	Absolu <u>% Cov</u>		Domi Spec		Indicator <u>Status</u>	Domi	nance Tes	st Workshe	et:					
1. Alnus rubra			<u>15</u>		yes		FAC	Numb	er of Dom	inant Specie	es		4			(4)
2. Pseudotsuga mei	<u>nziesii</u>		<u>10</u>		<u>yes</u>		<u>FACU</u>			ACW, or FA			<u>1</u>			(A)
3								Total I	Number of	Dominant			-			(D)
4								Speci	es Across	All Strata:			<u>7</u>			(B)
50% = <u>12.5</u> , 20% = <u>5</u>	i		<u>25</u>		= Tot	al Cov	er	Perce	nt of Domi	inant Specie	es		4.4			(A/D)
Sapling/Shrub Stratu	<u>m</u> (Plot size: <u>20'</u>	diameter)								ACW, or FA			<u>14</u>			(A/B)
1. Gaultheria shalloi	<u>n</u>		<u>25</u>		yes		<u>FACU</u>	Preva	lence Ind	ex workshe	eet:					
2. Vaccinium ovatur	<u>m</u>		<u>10</u>		yes		<u>FACU</u>		Tot	al % Cover	of:		Multip	oly by:		
3. Ilex aquifolium			<u>10</u>		<u>yes</u>		<u>FACU</u>	OBL s	species				x1 =			
4								FACW	V species				x2 =			
5								FAC s	species				x3 =			
50% = <u>22.5</u> , 20% = <u>9</u>	!		<u>45</u>		= Tot	al Cov	er	FACU	J species				x4 =			
Herb Stratum (Plot si	ze: 10' diameter	•)						UPL s	species				x5 =			
1. Rubus ursinus			<u>10</u>		<u>yes</u>		FACU	Colum	nn Totals:		(A)	1			_ (	(B)
Polystichum mun	itum		<u>5</u>		yes		FACU	Coluit	iii Totais.	Prevaler			A =			(=)
3.	<del>Itam</del>		<u> </u>		<u>700</u>		17100	Hydro	anhytic Ve	egetation Ir			`			
4.			-							Test for Hy			tation			
5			-						-	ance Test is		_	itation			
6			-							ence Index i	_					
7										ological Ada Remarks o				orting		
8			-										o silect)			
9									5 - Wetlan	d Non-Vaso	cular P	iants'				
10			-						Problemat	ic Hydrophy	ytic Ve	getation	1 (Explain)	)		
11								1Indic:	ators of hy	dric soil and	d wetla	nd hydr	ology mus	t		
50% = <u>7.5</u> , 20% = <u>3</u>			<u>15</u>		= Tot	al Cov	er			ss disturbe						
Woody Vine Stratum	(Plot size:	_)														
1																
2								Veget	ophytic		Yes			No		$\boxtimes$
50% =, 20% =	·				= Tot	al Cov	er	Prese			103		ш	140		
% Bare Ground in He	erb Stratum <u>85</u>															
70 Daic Ordana III ric																

SOIL Sampling Point: TP 16a Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 duffy sand <u>0-8</u> 100 <u>8-16</u> 10YR 4/4 <u>100</u> gr sa loam gr - gravelly sa -sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Coun	ty: <u>Poulsbo/Kitsap</u> Sa	ampling Date:	<u>10-18-23</u>	<u>3</u>
Applicant/Owner:	<u>Raydient</u>				State: WA Sa	ampling Point:	<u>TP 17</u>	
Investigator(s):	J. Bartlett, C. Bartlett				Section, Township, Range:	S 31 T 27 N R 2 E	<u>WM</u>	
Landform (hillslope, te	errace, etc.): <u>Hillslope</u>		Loc	al relief (conc	ave, convex, none): <u>convex</u>	Slope	: (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6	615% slopes	<u>i</u>		NWI classific	cation: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	/ear?	Yes ⊠	No	emarks.)		
Are Vegetation ☐,	, Soil □, or Hydrology	☐, signific	antly disturbe	d? Are "	Normal Circumstances" present?	Yes	☑ No	
Are Vegetation ☐,	, Soil □, or Hydrology	☐, natural	ly problemation	c? (If ne	eded, explain any answers in Rema	rks.)		
SUMMARY OF FIN	DINGS – Attach site map sh	nowing san	npling poin	t locations,	transects, important features	, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🛚	No 🗌					
Hydric Soil Present?		Yes 🗌	No 🛛	Is the Samp		Yes	□ No	
Wetland Hydrology Pro	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located	along Stottler	neyer Road a	nd Bond Road	between Poulsbo and Kingston. T	he site is large so w	as divided	d into
three segi	ments, most of which are either cl	ear cut or for	ested. Test P	Plot 17 is locate	ed within a topographic trough upslo	pe of Test Plot 16a.		
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: <u>30' diameter</u> )	Absolute	Dominant	Indicator	Dominance Test Worksheet:			
Pseudotsuga mei	nziesii	<u>% Cover</u> <u>15</u>	<u>Species?</u> <u>yes</u>	Status FACU	Number of Demisers Consider			
2. Thuja plicata	<u>12.10011</u>	<u>10</u> 5	<u>yes</u>	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	<u>4</u>		(A)
3. Alnus rubra		<u>5</u>	<u>yes</u> yes	FAC	Total Number of Dominant			
4.		<u>u</u>	<u>700</u>	1710	Species Across All Strata:	<u>7</u>		(B)
50% = <u>12.5</u> , 20% = <u>5</u>		<u></u>	= Total Cov		Dereant of Deminant Charles			
	<u>m</u> (Plot size: <u>20' diameter</u> )	<u>=v</u>	7014.00		Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>57</u>		(A/B)
Sambucus racem		<u>20</u>	<u>yes</u>	FACU	Prevalence Index worksheet:			
Rubus spectabilis		<u>10</u>	<u>yes</u>	FAC	Total % Cover of:	Multip	ly by:	
3	<u>.</u>	<u>10</u>	<u>700</u>	1710	OBL species	x1 =	<u>17 10 7 .</u>	
4					FACW species	x2 =		
5.					FAC species	x3 =		
50% = <u>15</u> , 20% = <u>6</u>		30	= Total Cov	/er	FACU species	x4 =		
Herb Stratum (Plot si	zo: 10' diameter)	<u>00</u>	- 10tai 00t	701	UPL species	x5 =		
,	·	40		F40				(D)
1. Athyrium cyclosol	<u>rum</u>	<u>10</u>	<u>yes</u>	<u>FAC</u>	Column Totals:(A			(B)
2. <u>Rubus ursinus</u>		<u>5</u>	<u>yes</u>	<u>FACU</u>	Prevalence Inc			
3					Hydrophytic Vegetation Indicat			
4					1 – Rapid Test for Hydrophy	=		
5					□ 2 - Dominance Test is >50%			
6					☐ 3 - Prevalence Index is <3.0	)1		
7					4 - Morphological Adaptatio		rting	
8								
9					5 - Wetland Non-Vascular F	'lants <sup>1</sup>		
10					☐ Problematic Hydrophytic Ve	getation¹ (Explain)		
11					11-41-4			
50% = <u>7.5</u> , 20% = <u>3</u>		<u>15</u>	= Total Cov	/er	<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or present.			
Woody Vine Stratum	(Plot size:)							
1								
2					Hydrophytic Vegetation Yes		No	
50% =, 20% =			= Total Cov	/er	Present?		140	
% Bare Ground in He	erb Stratum <u>85</u>							
Remarks:	The hydrophytic vegetation criteria	a is met beca	use there is o	reater than 50	I 0% dominance by FAC plant species	).		
Tomano.	· · · · · · · · · · · · · · · ·							

Depth	Matrix				Redox Feat	ures			
nches)	Color (moist)	%	Colo	r (moist)	) %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
<u>0-2</u>		<u>100</u>	_					<u>duff</u>	
<u>2-10</u>	10YR 4/4	<u>100</u>	_					loamy sa	and
<u>10-16</u>	<u>10YR 4/3</u>	<u>95</u>	<u>10Y</u>	<u>′R 4/6</u>	<u>5</u>	<u>C</u>	<u>M</u>	sandy lo	<u></u>
			_	—					<del>-</del>
—			_			-		-	<del>-</del>
			_	—					<del>-</del>
			_					-	<del>-</del>
me: C= C	oncentration D=De	nletion RN	— /=Reduced	—— Matrix	CS=Covered or Co	ated Sand	Grains <sup>2</sup> I	ocation: PI =	- ——— =Pore Lining, M=Matrix, RC=Root Channel
-	Indicators: (Applic	-				atea eana	Ordino.		cators for Problematic Hydric Soils <sup>3</sup> :
	sol (A1)	abio to un	_	_	Sandy Redox (S5)				2 cm Muck (A10)
	Epipedon (A2)				Stripped Matrix (S6)				Red Parent Material (TF2)
	Histic (A3)			_	.oamy Mucky Minera	al (F1) <b>(ex</b>	cept MLRA 1)		Very Shallow Dark Surface (TF12)
	gen Sulfide (A4)			_	oamy Gleyed Matrix	, , ,	. ,		Other (Explain in Remarks)
Deple	ted Below Dark Sur	face (A11)	Γ	□ D	Depleted Matrix (F3)				
Thick	Dark Surface (A12)		Γ	□ R	Redox Dark Surface	(F6)			
Sandy	/ Mucky Mineral (S1	)	Γ	□ D	Depleted Dark Surfa	ce (F7)			icators of hydrophytic vegetation and
Sandy	Gleyed Matrix (S4)	)	[	⊒ R	Redox Depressions	(F8)			vetland hydrology must be present, Inless disturbed or problematic.
strictive	Layer (if present):								•
e:									
oth (inche	es):						Hydric Soils I	Present?	Yes □ No
emarks:	This soil profile m	eets none	of the hydric	soil ind	dicators because of	the high m	natrix colors.		
DROLO(	GY .		of the hydric	soil inc	dicators because of	the high m	natrix colors.		
OROLOG etland Hy	GY drology Indicators	s:				the high m	natrix colors.	Coope	
DROLOG etland Hy imary Indi	GY drology Indicators cators (minimum of	s:	ed; check al	ll that ap	oply)		natrix colors.		ndary Indicators (2 or more required)
DROLOG etland Hy mary Indi Surfa	GY rdrology Indicators cators (minimum of ce Water (A1)	s:	ed; check al	II that ap	oply) Water-Stained Leave	es (B9)			Water-Stained Leaves (B9)
PROLOG etland Hy mary Indi Surfa High \	drology Indicators cators (minimum of ce Water (A1) Water Table (A2)	s:	ed; check al	ll that ap	oply) Vater-Stained Leave except MLRA 1, 2,	es (B9)			Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
PROLOG Itland Hy mary Indi Surfa High \	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3)	s:	ed; check al	ll that ap □ W (€	oply) Vater-Stained Leave except MLRA 1, 2, Salt Crust (B11)	es (B9) 4 <b>A</b> , and 4			Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
ROLOG tland Hy mary Indi Surfa High Satur Water	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1)	s:	ed; check al	ll that ap □ W (€ □ S □ A	oply) Vater-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates	es (B9) <b>4A, and 4</b> s (B13)			Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
PROLOG Itland Hy mary Indi Surfa High ' Satur Water Sedin	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2)	s:	ed; check al	Il that ap	oply) Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od	es (B9) <b>4A, and 4</b> s (B13)  dor (C1)	B)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
PROLOG Istand Hy mary Indi Surfa High ' Satur Water Sedin Drift I	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3)	s:	ed; check al	that ap    W (6    S    A    H	oply)  Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizospher	es (B9) <b>4A, and 4</b> s (B13)  dor (C1)  res along l	·B)		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)
PROLOG etland Hy mary Indi Surfa High Satur Water Sedin Drift [	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	s:	ed; check al	that ap	pply) Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Oc Dxidized Rhizospher Presence of Reduce	es (B9) <b>4A, and 4</b> s (B13)  dor (C1)  res along l  d Iron (C4	EB) Living Roots (C3)		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)
DROLOG etland Hy imary Indi Surfa High Satur Water Sedin Drift [ Algal	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	s:	ed; check al	that ap 	oply)  Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Oc Dixidized Rhizospher Presence of Reduce Recent Iron Reduction	es (B9)  4A, and 4  s (B13)  dor (C1)  res along I  d Iron (C4  on in Tilled	Living Roots (C3)		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)
DROLOO etland Hy mary Indi Surfa High Satur. Water Sedin Drift [ Algal Iron [ Surfa	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6)	s: one require	ed; check al	that ap	oply)  Water-Stained Leave except MLRA 1, 2, Salt Crust (B11)  Aquatic Invertebrates Hydrogen Sulfide Octo Dixidized Rhizospher Presence of Reduce Recent Iron Reductio Stunted or Stresses	es (B9)  4A, and 4  s (B13)  dor (C1)  res along l  d Iron (C4  on in Tilled	Living Roots (C3)		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)
DROLOG etland Hy mary Indi Surfa High ' Satur. Water Sedin Drift [ Algal Iron [ Surfa Inund	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aer	s: one require	ed; check al	that ap	oply)  Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Oc Dixidized Rhizospher Presence of Reduce Recent Iron Reduction	es (B9)  4A, and 4  s (B13)  dor (C1)  res along l  d Iron (C4  on in Tilled	Living Roots (C3)		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)
DROLOG etland Hy mary Indi Surfa High ' Satur Water Sedin Drift I Algal Iron I Surfa Inund Spars	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aersely Vegetated Cons	s: one require	ed; check al	that ap	oply)  Water-Stained Leave except MLRA 1, 2, Salt Crust (B11)  Aquatic Invertebrates Hydrogen Sulfide Octo Dixidized Rhizospher Presence of Reduce Recent Iron Reductio Stunted or Stresses	es (B9)  4A, and 4  s (B13)  dor (C1)  res along l  d Iron (C4  on in Tilled	Living Roots (C3)		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)
DROLOG etland Hy mary Indi Surfa High Satur. Water Sedin Drift [ Algal Iron [ Surfa Inund Spars	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aer sely Vegetated Conc	one require	ed; check al	that app	poply) Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Octo Dixidized Rhizospher Presence of Reduces Recent Iron Reductio Stunted or Stresses Other (Explain in Red	es (B9)  4A, and 4  s (B13)  dor (C1)  res along l  d Iron (C4  on in Tilled	Living Roots (C3)		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)
PROLOG etland Hy mary Indi Surfa High Satur Water Sedin Drift I Algal Iron I Surfa Inund Spars	drology Indicators cators (minimum of ce Water (A1)) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aeresely Vegetated Conc	one require ial Imagery cave Surface	ed; check al	that ap	oply) Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates dydrogen Sulfide Octo Dixidized Rhizospher Presence of Reduce Recent Iron Reductio Stunted or Stresses Other (Explain in Red Depth (inches):	es (B9)  4A, and 4  s (B13)  dor (C1)  res along l  d Iron (C4  on in Tilled	Living Roots (C3)		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)
DROLOG etland Hy mary Indi Surfa- High Satur. Water Sedin Drift D Algal Iron D Surfa- Inund Sparse eld Obser rface Wat ater Table	drology Indicators cators (minimum of ce Water (A1)) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aersely Vegetated Concretations: ter Present?	one require	ed; check al	that app	poply) Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Octo Dixidized Rhizospher Presence of Reduces Recent Iron Reductio Stunted or Stresses Other (Explain in Red	es (B9)  4A, and 4  s (B13)  dor (C1)  res along l  d Iron (C4  on in Tilled	Living Roots (C3) I Soils (C6) I) (LRR A)		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)
DROLOG etland Hy imary Indi   Surfa   High     Satur.   Water   Sedin   Drift [   Algal   Iron [   Surfa   Inund   Spars eld Obser urface Wat ater Table turation P cludes ca	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aeresely Vegetated Concervations: ter Present? Present?	one require  ial Imagery cave Surface  Yes   Yes   Yes   Yes   Yes	ed; check al	that ap	poply)  Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Oct Dixidized Rhizospher Presence of Reduce Recent Iron Reduction Stunted or Stresses Other (Explain in Red Depth (inches): Depth (inches):	es (B9)  4A, and 4  s (B13) dor (C1) res along I d Iron (C4 on in Tilled Plants (D1 marks)	Living Roots (C3) I Soils (C6) I) (LRR A)		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)
imary Indi  Surfa  High  Satur  Water  Sedin  Inon E  Inund  Spars  eld Obser  urface Water  tater Table  aturation Packudes ca	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aeresely Vegetated Concervations: ter Present? Present?	one require  ial Imagery cave Surface  Yes   Yes   Yes   Yes   Yes	ed; check al	that ap	oply)  Water-Stained Leave except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Oc Dixidized Rhizospher Presence of Reducer Recent Iron Reductic Stunted or Stresses Other (Explain in Rei  Depth (inches): Depth (inches):	es (B9)  4A, and 4  s (B13) dor (C1) res along I d Iron (C4 on in Tilled Plants (D1 marks)	Living Roots (C3) I Soils (C6) I) (LRR A)		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:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-18-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 18</u>	
Investigator(s):	J. Bartlett, C. Bartlett				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>WM</u>	
Landform (hillslope, te	rrace, etc.): <u>Hillslope</u>		Local	relief (conca	ive, convex, none): <u>convex</u>	Slope	: (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	-15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛚	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	Soil   , or Hydrology [	☐, significa	ntly disturbed	? Are "N	Normal Circumstances" present	? Yes	⊠ No	
Are Vegetation ☐,	Soil   , or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in R	emarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sho	owing sam	pling point	locations,	transects, important feat	ıres, etc.		
Hydrophytic Vegetation	n Present?	Yes 🛚	No 🗆		Lat A			
Hydric Soil Present?		Yes 🗌		ls the Sampl within a Wet		Yes	□ No	$\boxtimes$
Wetland Hydrology Pre	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located al	long Stottlem	eyer Road and	d Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided	into
	ments, most of which are either cle nannel conditions were observed.	ar cut or fore	sted. Test Plo	t 18 is locate	d within the southernmost map	ped stream where no w	ater flow or	r
Stream Cri	anner conditions were observed.							
VEGETATION - Use	e scientific names of plants							
Tree Stratum (Plot size	ze: <u>30' diameter</u> )	Absolute	Dominant	Indicator	Dominance Test Workshee	t:		
Pseudotsuga mei	nziesii	<u>% Cover</u> <u>15</u>	Species? yes	Status FACU	Number of Dominant Specie			
2					That Are OBL, FACW, or FA			(A)
3.					Total Number of Dominant			
4.					Species Across All Strata:	<u>5</u>		(B)
50% = <u>7.5,</u> 20% = <u>3</u>		<u>15</u>	= Total Cove		Percent of Dominant Species			
	m (Plot size: 20' diameter)	_			That Are OBL, FACW, or FA			(A/B)
Sambucus racem		<u>10</u>	<u>yes</u>	FACU	Prevalence Index workshe	 et:		
Rubus spectabilis		<u>5</u>	<u>yes</u>	FAC	Total % Cover of		lv bv:	
3. <u>Ilex aquifolium</u>	•	<u>5</u>	<u>yes</u>	FACU	OBL species	x1 =	. <u>1 ~1.</u>	
4		_	<del></del>		FACW species	x2 =		
5.					FAC species	x3 =		
50% = <u>10</u> , 20% = <u>4</u>		20	= Total Cove		FACU species	x4 =		
Herb Stratum (Plot size	ze: 10' diameter)				UPL species	x5 =		
Polystichum muni		<u>30</u>	VAC	FACU	•	_ (A)		(B)
2.	<u>tum</u>	<u>30</u>	<u>yes</u>	<u>1 ACC</u>	Column Totals:	(A) ce Index = B/A =	\	(D)
3					Hydrophytic Vegetation Inc			
5.					☐ 1 – Rapid Test for Hyd☐ 2 - Dominance Test is:	. , .		
6					☐ 3 - Prevalence Index is	<u>&lt;</u> 3.0¹		
7						otations¹ (Provide suppor on a separate sheet)	rting	
8								
9					5 - Wetland Non-Vascu	ilar Plants		
10					☐ Problematic Hydrophyt	ic Vegetation¹ (Explain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must		
50% = <u>15</u> , 20% = <u>6</u>		<u>30</u>	= Total Cove	r	be present, unless disturbed			
Woody Vine Stratum	(Plot size:)							
1					H. dan bed:			
2					Hydrophytic Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% =			= Total Cove	r	Present?			
% Bare Ground in He	erb Stratum <u>85</u>							
Remarks:	The hydrophytic vegetation criteria	is not met be	ecause there is	s less than 50	0% dominance by FAC plant sp	ecies.		
I								

SOIL Sampling Point: TP 18 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 100 <u>duff</u> 0-5 <u>5-12</u> 10YR 4/4 100 loamy sand C 12-16 10YR 4/3 10YR 4/6 Μ sandy loam 95 <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Cou	nty: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-18-23	<u>3</u>
Applicant/Owner:	Raydient				State: WA	Sampling Point:	TP 19	
Investigator(s):	J. Bartlett, C. Bartlett				Section, Township, Ran	ge: <u>S 31 T 27 N R 2 F</u>	<u>EWM</u>	
Landform (hillslope, ter	rrace, etc.): <u>Hillslope</u>		L	ocal relief (cond	eave, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam,	615% slope	<u>s</u>		NWI clas	ssification: <u>None</u>		
Are climatic / hydrologi	ic conditions on the site typical for	or this time of	year?	Yes 🛚	No 🔲 (If no, explain	n Remarks.)		
Are Vegetation ☐,	Soil ☐, or Hydrology	☐, signific	cantly distu	bed? Are	'Normal Circumstances" present	? Yes	⊠ No	
Are Vegetation ☐,	Soil □, or Hydrology	☐, natura	lly problem	atic? (If ne	eeded, explain any answers in Re	emarks.)		
	<u>-</u>			_	transects, important featu	res, etc.		
Hydrophytic Vegetation	n Present?	Yes 🗵		le the Sam	oled Area			
Hydric Soil Present?		Yes [		within a W		Yes	☐ No	• 🛛
Wetland Hydrology Pre	esent?	Yes [	No 🛭	1				
					d between Poulsbo and Kingstor			
three segr Segment.	nents, most of which are either of	clear cut or fo	rested. Tes	t Plot 19 is locat	ed within a topographic trough ir	the southern portion o	f the South	h
9								
VEGETATION - Use	e scientific names of plant	s						
Tree Stratum (Plot siz	ze: <u>30' diameter</u> )	Absolute % Cover	Dominar Species		Dominance Test Worksheet	: <b>:</b>		
1. Pseudotsuga mer	<u>nziesii</u>	<u>15</u>	<u>yes</u>	<u>FACU</u>	Number of Dominant Species			
2					That Are OBL, FACW, or FAC			(A)
3					Total Number of Dominant			
4					Species Across All Strata:	<u>3</u>		(B)
50% = <u>7.5,</u> 20% = <u>3</u>		<u>15</u>	= Total (	Cover	Percent of Dominant Species			(A (D)
Sapling/Shrub Stratur	m (Plot size: <u>20' diameter</u> )				That Are OBL, FACW, or FAC			(A/B)
1. Gaultheria shallor	<u>1</u>	<u>10</u>	<u>yes</u>	<u>FACU</u>	Prevalence Index workshee	t:		
2					Total % Cover of	f: Multip	oly by:	
3					OBL species	x1 =		
4					FACW species	x2 =		
5					FAC species	x3 =		
50% = <u>5,</u> 20% = <u>2</u>		<u>10</u>	= Total (	Cover	FACU species	x4 =		
Herb Stratum (Plot size	ze: 10' diameter)				UPL species	x5 =		
Polystichum muni	itum	<u>10</u>	yes	FACU	Column Totals:	_ (A)		(B)
2.	<del></del>	_	_			e Index = B/A =		. (-)
3.					Hydrophytic Vegetation Ind	·		
4					☐ 1 – Rapid Test for Hydr			
5					2 - Dominance Test is >			
6.					1 =			
7.								
8.					4 - Morphological Adap data in Remarks or o		rting	
9.					5 - Wetland Non-Vascu	, ,		
10					☐ Problematic Hydrophyti	c Vegetation¹ (Explain)		
11		40			<sup>1</sup> Indicators of hydric soil and v	wetland hydrology mus	t	
50% = <u>5</u> , 20% = <u>2</u>	(Di-t -i )	<u>10</u>	= Total (	Jover	be present, unless disturbed			
Woody Vine Stratum	(Plot size:)							
1					Hydrophytic			
2						Yes 🗆	No	$\boxtimes$
50% =, 20% =			= Total (	Cover	Present?			
% Bare Ground in He	rb Stratum <u>90</u>							
Remarks:	The hydrophytic vegetation criter	ria is not met	because the	ere is less than t	50% dominance by FAC plant sp	ecies.		_
1								

Depleted Below Dark Surface (A11)	<u>0-7</u> <u>7-12</u>	Color (moist)	0/			Redox Feat								
2-12	<u>7-12</u>		%	Color (	moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rem	narks		
12-16 10YR 4/2 90 10YR 4/6 10		10YR 2/2	100						loamy sand					
ype: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histor Soll Indicators (Applicable to all LRRs, unless otherwise noted.)  Histor Soll (A1)  Sandy Redox (S5)  Black Histic (A3)  Loamy Mucky Mineral (F1) (except MLRA 1)  Depleted Below Dark Surface (A12)  Depleted Below Dark Surface (A11)  Depleted Below Dark Surface (A12)  Redox Dark Surface (F6)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Depleted Below Matrix (S4)  Redox Derressions (F8)  Sardy Gleye Matrix (S4)  Pedox Depressions (F8)  British (A1)  Present:  Hydric Solls Present?  Present:  Hydric Solls Present?  Present (A2)  Water-Stained Leaves (B9)  Muck (A11)  Salt Crust (B11)  Darlange Patterns (B10)  Drainage Patterns (B10)  Dr	12-16	10YR 4/3	<u>95</u>	<u>10YR</u>	4/6	<u>5</u>	<u>C</u>	<u>M</u>	loamy sand	charcoal chu	<u>nks</u>			
Sa - Sandy	<u> </u>	10YR 4/2	<u>90</u>	<u>10YR</u>	4/6	<u>10</u>	<u>C</u>	<u>M</u>	gr sa loam					
ype: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.					_									
ype: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.					_									
yper: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  2-Location: PL=Pore Lining, M=Matrix, RC=Root Channel ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Histosol (A1)					_					gr - gravelly				
Histosol (A1)				_	_					sa - sandy				
Histosol (A1)   Sandy Redox (S5)   2 cm Muck (A10)   Histic Epipedon (A2)   Stripped Matrix (S6)   Red Parent Material (TF2)   Histosol (A1)   Very Shallow Dark Surface (TF12)   Hydrogen Sulfide (A4)   Loamy Mucky Mineral (F1) (except MLRA 1)   Very Shallow Dark Surface (TF12)   Hydrogen Sulfide (A4)   Loamy Gleyed Matrix (F2)   Other (Explain in Remarks)   Depleted Below Dark Surface (A11)   Depleted Matrix (F2)   Other (Explain in Remarks)   Thick Dark Surface (A12)   Redox Dark Surface (F6)   Sandy Mucky Mineral (S1)   Depleted Dark Surface (F7)   Sandy Mucky Mineral (S1)   Depleted Dark Surface (F7)   Sandy Gleyed Matrix (S4)   Redox Depressions (F8)   Surface (F7)   Sindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  DEROLOGY    BROLOGY   Hydric Soils Present?   Yes   No    BROLOGY   Water Stained Leaves (B7)   Water-Stained Leaves (B7)   Surface Water (A1)   Water-Stained Leaves (B9)   Water-Stained Leaves (B9)   Hydric Soils Present?   Water-Stained Leaves (B8)   Hydric Soils Present?   Water-Stained Leaves (B9)   Hydric Soils Present?   Water-Stained Leaves (B9)   Hydric Soils Present?   Yes   No    DEROLOGY   Water Matrix (A1)   Water-Stained Leaves (B9)   Water-Stained Leaves (B9)   Hydric Soils Present?   Yes   No    DEROLOGY   Water Matrix (A1)   Water-Stained Leaves (B9)   Water-Stained Leaves (B9)   Hydric Soils Present?   Yes   No    DEROLOGY   Water Matrix (A1)   Water-Stained Leaves (B9)   Water-Stained Leaves (B9)   Hydric Soils Present?   Yes   No    DEROLOGY   Water Matrix (B1)   Water-Stained Leaves (B9)   Water-Stained Leaves (B9)   Hydric Soils Present?   Yes   No    DEROLOGY   Water Matrix (B1)   Water-Stained Leaves (B1)   Water-Stained Leaves (B1)   Water-Stained Leaves (B1)   Hydric Soils Present?   Yes   No    DEROLOGY   Water Matrix (B1)   Water-Stained Leaves (B1)   Wate	ype: C= Co	oncentration, D=Dep	letion, RM:	=Reduced M	— latrix, C	S=Covered or Co	ated Sand	Grains. <sup>2</sup> Lo	cation: PL=Por	e Lining, M=Mat	rix, RC=	Root C	Channel	
Histic Epipedon (A2)									Indicato	rs for Problema	tic Hyd	ric Soi	ils³:	
Black Histic (A3)	] Histoso	ol (A1)			Sar	ndy Redox (S5)			□ 2	cm Muck (A10)				
Hydrogen Sulfide (A4)	] Histic E	Epipedon (A2)			Stri	ripped Matrix (S6)			☐ R	ed Parent Mate	ial (TF2)	()		
Depleted Below Dark Surface (A11)	] Black H	listic (A3)			Loa	amy Mucky Miner	al (F1) <b>(exc</b>	cept MLRA 1)	□ V	ery Shallow Dar	k Surfac	e (TF1	2)	
Thick Dark Surface (A12)	Hydrog	en Sulfide (A4)			Loa	amy Gleyed Matri:	x (F2)		□ 0	ther (Explain in	Remarks	s)		
Sandy Mucky Mineral (S1)	] Deplete	ed Below Dark Surfa	ce (A11)		Dep	pleted Matrix (F3)	)							
Sandy Gleyed Matrix (S4)	Thick D	ark Surface (A12)			Red	dox Dark Surface	(F6)							
Sandy Gleyed Matrix (S4)	∃ Sandy	Mucky Mineral (S1)			De	pleted Dark Surfa	ıce (F7)						d	
Pope   Pop	] Sandy	Gleyed Matrix (S4)			Red	dox Depressions	(F8)							
PDROLOGY  Vertand Hydrology Indicators:  Irimary Indicators (minimum of one required; check all that apply)  Saturation (A3)  Saturation (B1)  Water Saturation (A3)  Saturation (Visible on Aerial Imagery (C9)  Saturation (Visible on Aerial Imagery (C9)  Saturation (Visible on Aerial Imagery (A3)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Stunted or Stresses Plants (D1) (LRR A)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Sparsely Vegetated Concave Surface (B8)	Restrictive L	.ayer (if present):												
PROLOGY  Vetland Hydrology Indicators:  Inimary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  High Water Table (A2)  (except MLRA 1, 2, 4A, and 4B)  Saturation (A3)  Salt Crust (B11)  Vater Marks (B1)  Aquatic Invertebrates (B13)  Sediment Deposits (B2)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B3)  Oxidized Rhizospheres along Living Roots (C3)  Algal Mat or Crust (B4)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Recent Iron Reduction in Remarks)  Sparsely Vegetated Concave Surface (B8)  Ieid Observations:							I							
PROLOGY  Vetland Hydrology Indicators:  rimary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Salt Crust (B11)  Water Marks (B1)  Aquatic Invertebrates (B13)  Pry-Season Water Table (C2)  Sediment Deposits (B2)  Hydrogen Sulfide Odor (C1)  Saturation Visible on Aerial Imagery (C9)  Algal Mat or Crust (B4)  Presence of Reduced Iron (C4)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Surface Soil Cracks (B8)  Vater Marks  Frost-Heave Hummocks (D7)  Sparsely Vegetated Concave Surface (B8)	уре:													
Surface Water (A1)   Water-Stained Leaves (B9)   Water-Stained Leaves (B9)   Water-Stained Leaves (B9)	Depth (inche		ets none of	the hydric s	oil indic	cators because of			resent?	Υe	es [		No	
Surface Water (A1)	Depth (inche:	This soil profile med	ets none of	the hydric s	oil indic	cators because of			resent?	Υe	es [		No	
High Water Table (A2)	Depth (inchesternance)  Compared to the compar	This soil profile med  Y  drology Indicators:												
Saturation (A3)	Pepth (inche: Remarks:  /DROLOG  Vetland Hyd  Primary Indic	Y  Irology Indicators: ators (minimum of o		d; check all t	hat appl	oly)	the high ma		Secondary	√ Indicators (2 or	more re			
Water Marks (B1)	Depth (inchese Remarks:  DROLOG Vetland Hyderimary Indicates	Y  Irology Indicators: ators (minimum of o		d; check all t	ihat appl	oly) ater-Stained Leave	the high ma	atrix colors.	Secondary □ Wate	v Indicators (2 or er-Stained Leave	more re			
Sediment Deposits (B2)	CPT Surface  Wetland Hyde  Surface  High V	Y Irology Indicators: ators (minimum of o e Water (A1) Vater Table (A2)		d; check all t	hat appl	oly) ater-Stained Leave ccept MLRA 1, 2,	the high ma	atrix colors.	Secondary  Wate	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and	more re es (B9) I 4B)			
□ Drift Deposits (B3) □ Oxidized Rhizospheres along Living Roots (C3) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Presence of Reduced Iron (C4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Recent Iron Reduction in Tilled Soils (C6) □ FAC-Neutral Test (D5) □ Surface Soil Cracks (B6) □ Stunted or Stresses 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:	Primary Indic  Surfac  High V	Y  Irology Indicators: ators (minimum of o e Water (A1) Vater Table (A2) tion (A3)		d; check all t	hat appl ] Wa (ex ] Sal	oly) ater-Stained Leave ccept MLRA 1, 2, llt Crust (B11)	es (B9)	atrix colors.	Secondary Wate	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E	more re es (B9) I <b>4B)</b> 310)	equired		
Algal Mat or Crust (B4)	Pepth (inche: Remarks:  PDROLOG Vetland Hyd Surfac High V Satura Water	Y Inlight of the state of the s		d; check all t	that appl ] Wa (ex ] Sal	oly) ater-Stained Leave ccept MLRA 1, 2, alt Crust (B11) quatic Invertebrates	es (B9) 4A, and 4E	atrix colors.	Secondary  Wate (MLF	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T	more rees (B9) 1 4B) 310) able (C2	equired 2)	1)	1
□ Iron Deposits (B5) □ Recent Iron Reduction in Tilled Soils (C6) □ FAC-Neutral Test (D5) □ Surface Soil Cracks (B6) □ Stunted or Stresses 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:	/DROLOG Vetland Hyd Surfac High V Satura Water Sedim	Y Irology Indicators: ators (minimum of o e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)		d; check all t	ihat appl ] Wa (ex ] Sal ] Aqu	oly) ater-Stained Leave ccept MLRA 1, 2, alt Crust (B11) quatic Invertebrates drogen Sulfide Oc	es (B9) 4A, and 4E s (B13) dor (C1)	atrix colors.	Secondary Wate (MLF Drain Dry-3	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on	more rees (B9) I 4B) 310) able (C2	equired 2)	1)	1
Surface Soil Cracks (B6) Stunted or Stresses 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)	Pepth (inche: Remarks:  Parimary Indic Surfac High V Satura Water Sedim Drift D	Y Irology Indicators: ators (minimum of o e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)		d; check all t	ihat appl ] Wa (ex ] Sal ] Aqu ] Hyo ] Oxi	oly) ater-Stained Leave ccept MLRA 1, 2, alt Crust (B11) quatic Invertebrates drogen Sulfide Oc cidized Rhizospher	es (B9)  4A, and 4E  s (B13) dor (C1) res along Li	atrix colors.  B)	Secondary Wate (MLF Drain Dry-3 Satu Geor	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior	more rees (B9) I 4B) B10) able (C2 Aerial In	equired 2)	1)	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Frost-Heave Hummocks (D7) ☐ Sparsely Vegetated Concave Surface (B8)  Field Observations:	Primary Indic Surface High V Satura Water Sedim Algal N	Y Irology Indicators: ators (minimum of o e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4)		d; check all t	ihat appl ] Wa (ex ] Sal ] Aqu ] Hyo ] Oxi ] Pre	oly) ater-Stained Leave ccept MLRA 1, 2, alt Crust (B11) quatic Invertebrates drogen Sulfide Oc cidized Rhizospher esence of Reduce	es (B9)  4A, and 4E  s (B13) dor (C1) res along Li ed Iron (C4)	atrix colors.  B)	Secondary Wate (MLF Drain Dry-1 Satu Geoi	v Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior low Aquitard (D:	more rees (B9) I 4B) B10) able (C2 Aerial In (D2)	equired 2)	1)	
Sparsely Vegetated Concave Surface (B8)  Field Observations:	Primary Indicated High V Satura Sedim Drift D Algal M Iron Do	Y Irology Indicators: ators (minimum of o e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)		d; check all t	that appl Wa (ex ] Sal ] Aqu ] Hyo ] Oxi ] Pre ] Rec	oly)  ater-Stained Leave  ccept MLRA 1, 2,  alt Crust (B11)  puatic Invertebrates  drogen Sulfide Oc  didized Rhizospher  esence of Reduce	es (B9)  4A, and 4E  s (B13) dor (C1) res along Lied Iron (C4) on in Tilled	B)  iving Roots (C3)  Soils (C6)	Secondary Wate (MLF Drain Dry-3 Satu Geo Shal	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior low Aquitard (DS	more rees (B9) I 4B) B10) able (C2 Aerial In I (D2) B)	equired 2) magery	1)	
Field Observations:	/DROLOG Vetland Hyd Surfac High V Satura Vater Sedim Algal M Iron Do	Y Include Incl	ne required	d; check all t	that appl  (ex  Sal  Aqu  Hyo  Cxi  Rec	oly) ater-Stained Leave ccept MLRA 1, 2, alt Crust (B11) juatic Invertebrates drogen Sulfide Oc didized Rhizospher esence of Reduce ecent Iron Reduction	es (B9)  4A, and 4E  s (B13) dor (C1) res along Li ed Iron (C4) on in Tilled Plants (D1)	B)  iving Roots (C3)  Soils (C6)	Secondary Wate (MLF Drain Dry-1 Satu Geo Shal FAC	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior low Aquitard (D: -Neutral Test (D ed Ant Mounds	more rees (B9)  1 4B) 310) able (C2 Aerial Ir 1 (D2) 3) 5) (D6) (LR	equired 2) magery	1)	
	/DROLOG Vetland Hyd Surfac High V Satura Sedim Sedim High V Satura Sedim Sedim Signatura Surfac Inunda	Y  Irology Indicators: ators (minimum of o e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) e Soil Cracks (B6) ation Visible on Aeria	ne required	d; check all t	that appl  (ex  Sal  Aqu  Hyo  Cxi  Rec	oly) ater-Stained Leave ccept MLRA 1, 2, alt Crust (B11) juatic Invertebrates drogen Sulfide Oc didized Rhizospher esence of Reduce ecent Iron Reduction	es (B9)  4A, and 4E  s (B13) dor (C1) res along Li ed Iron (C4) on in Tilled Plants (D1)	B)  iving Roots (C3)  Soils (C6)	Secondary Wate (MLF Drain Dry-1 Satu Geo Shal FAC	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior low Aquitard (D: -Neutral Test (D ed Ant Mounds	more rees (B9)  1 4B) 310) able (C2 Aerial Ir 1 (D2) 3) 5) (D6) (LR	equired 2) magery	1)	
	/DROLOG Vetland Hyd Vetland Hyd Satura High V Satura Sedim Horift D Algal N Iron D Surface Inunda	Y Irology Indicators: ators (minimum of o e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) e Soil Cracks (B6) ation Visible on Aeria	ne required	d; check all t	that appl  (ex  Sal  Aqu  Hyo  Cxi  Rec	oly) ater-Stained Leave ccept MLRA 1, 2, alt Crust (B11) juatic Invertebrates drogen Sulfide Oc didized Rhizospher esence of Reduce ecent Iron Reduction	es (B9)  4A, and 4E  s (B13) dor (C1) res along Li ed Iron (C4) on in Tilled Plants (D1)	B)  iving Roots (C3)  Soils (C6)	Secondary Wate (MLF Drain Dry-1 Satu Geo Shal FAC	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior low Aquitard (D: -Neutral Test (D ed Ant Mounds	more rees (B9)  1 4B) 310) able (C2 Aerial Ir 1 (D2) 3) 5) (D6) (LR	equired 2) magery	1)	
· · · · · · ·	Poppth (inche: Remarks:  Poppth (inche: Remarks:  Poppth (inche: Remarks:  Poppth (inche: Remarks:  Poppth (inche: Remarks: Po	Y  Irology Indicators: ators (minimum of o e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) e Soil Cracks (B6) ation Visible on Aeria ely Vegetated Concarrations:	ne required	d; check all t	that appl  Wa (ex  Sal  Aqu  Pre  Rec  Stu	oly) ater-Stained Leave ccept MLRA 1, 2, alt Crust (B11) quatic Invertebrates drogen Sulfide Oc didized Rhizospher esence of Reduce ecent Iron Reduction unted or Stresses her (Explain in Re	es (B9)  4A, and 4E  s (B13) dor (C1) res along Li ed Iron (C4) on in Tilled Plants (D1)	B)  iving Roots (C3)  Soils (C6)	Secondary Wate (MLF Drain Dry-1 Satu Geo Shal FAC	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior low Aquitard (D: -Neutral Test (D ed Ant Mounds	more rees (B9)  1 4B) 310) able (C2 Aerial Ir 1 (D2) 3) 5) (D6) (LR	equired 2) magery	1)	
Saturation Present? Yes D No Depth (inches): Wetland Hydrology Present? Yes D No	Pepth (inchese Remarks:  POROLOG  Vetland Hyd  Primary Indice  Surface  High V  Satura  Vater  Sedim  Iron De  Iron De  Iron De  Inunda  Sparse  Surface Water	Y  drology Indicators: ators (minimum of of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) e Soil Cracks (B6) ation Visible on Aeria ely Vegetated Conca	ne required	d; check all t	that appl  Wa (ex ] Sal ] Aqu ] Oxi ] Pre ] Rec ] Stu ] Oth	ater-Stained Leave ccept MLRA 1, 2, alt Crust (B11) quatic Invertebrates drogen Sulfide Oc didized Rhizospher esence of Reduce ecent Iron Reduction unted or Stresses her (Explain in Re	es (B9)  4A, and 4E  s (B13) dor (C1) res along Li ed Iron (C4) on in Tilled Plants (D1) emarks)	B)  iving Roots (C3)  Soils (C6)	Secondary Wate (MLF Drain Dry-1 Satu Geo Shal FAC	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior low Aquitard (D: -Neutral Test (D ed Ant Mounds	more rees (B9)  1 4B) 310) able (C2 Aerial Ir 1 (D2) 3) 5) (D6) (LR	equired 2) magery	1)	
includes capillary fringe)	Pepth (inchese Remarks:  Paramarks:  Param	Y Irology Indicators: ators (minimum of of e Water (A1) Vater Table (A2) Ition (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) e Soil Cracks (B6) ation Visible on Aeria ely Vegetated Concar vations: er Present? Present? Ye esent?	ne required al Imagery ( ave Surface es   es	d; check all t	that application (ex.)    Sal   Aquilication (ex.)   Oxion   Precent (ex.)   Stundard (ex.)	oly) ater-Stained Leave ccept MLRA 1, 2, at Crust (B11) quatic Invertebrates drogen Sulfide Oc cidized Rhizospher esence of Reduce ecent Iron Reductio unted or Stresses her (Explain in Re  Depth (inches):	es (B9)  4A, and 4E  s (B13) dor (C1) res along Lied Iron (C4) on in Tilled Plants (D1) emarks)	B)  iving Roots (C3)  Soils (C6) ) (LRR A)	Secondary Wate (MLF Drain Satu Satu Rais	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior low Aquitard (DS -Neutral Test (D ed Ant Mounds t-Heave Hummo	more rees (B9) I 4B) 310) able (C2 Aerial Ir I (D2) 3) 5) (D6) (LR	equired 2) magery	y (C9)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Popth (inchese Remarks:  Popth (inchese Remark	Y  drology Indicators: ators (minimum of of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) e Soil Cracks (B6) ation Visible on Aeria ely Vegetated Concar vations: er Present? Present? Ye esent? villary fringe)	ne required al Imagery ( ave Surface es  es  es	d; check all t	that appl  Wa (ex Sal Aqu Pre Rec Stu Ch	oly)  ater-Stained Leave  ccept MLRA 1, 2,  ater (B11)  puatic Invertebrates  drogen Sulfide Octidized Rhizospher  esence of Reduce  ecent Iron Reduction  unted or Stresses  her (Explain in Re  Depth (inches):  Depth (inches):	es (B9)  4A, and 4E s (B13) dor (C1) res along Li ed Iron (C4) on in Tilled Plants (D1) emarks)	B)  iving Roots (C3)  Soils (C6) ) (LRR A)	Secondary Wate (MLF Drain Satu Satu Rais	r Indicators (2 or er-Stained Leave RA 1, 2, 4A, and nage Patterns (E Season Water T ration Visible on morphic Positior low Aquitard (DS -Neutral Test (D ed Ant Mounds t-Heave Hummo	more rees (B9) I 4B) 310) able (C2 Aerial Ir I (D2) 3) 5) (D6) (LR	equired 2) magery	y (C9)	

Project Site: <u>NK United</u>					City/Coun	y: <u>Poulsbo/Kitsap</u> Sampling Date: <u>10-18-2</u>	<u>:3</u>
Applicant/Owner: <u>Raydient</u>						State: WA Sampling Point: TP 20	
Investigator(s): J. Bartlett, C. Bartlett						Section, Township, Range: S 31 T 27 N R 2 EWM	
Landform (hillslope, terrace, etc.): <u>Hillslope</u>				Loca	al relief (conca	ve, convex, none): <u>convex</u> Slope (%): <u>5</u>	
Subregion (LRR): MLRA 2	Lat:		-			Long: Datum:	
Soil Map Unit Name: Poulsbo gravelly sandy loam,						NWI classification: <u>None</u>	
Are climatic / hydrologic conditions on the site typical f		-			'es ⊠	No (If no, explain in Remarks.)	
Are Vegetation   , Soil  , or Hydrology	□, sig		-			lormal Circumstances" present? Yes ⊠ No	
Are Vegetation ☐, Soil ☐, or Hydrology	□, na	iturally	probl	ematic	? (If ne	ded, explain any answers in Remarks.)	
CLIMMADY OF FINDINGS. Attach cite man	haudaa			naint	locations	ironocata immortant factures ats	
SUMMARY OF FINDINGS – Attach site map				•	locations,	ransects, important features, etc.	
Hydrophytic Vegetation Present?	Yes		No		Is the Samp	ed Area	- 17
Hydric Soil Present?	Yes		No		within a We		• <b>⊠</b>
Wetland Hydrology Present?	Yes		No	$\boxtimes$			
	clear cut o	r fores	sted.	Test Pl	ot 20 is locate	between Poulsbo and Kingston. The site is large so was divide d at the north end of the trough in which Test Plot 19 was also y blocked with built up sediment.	d into
EGETATION – Use scientific names of plant	s						
<u>Tree Stratum</u> (Plot size: <u>30' diameter</u> )	Absolu % Cov		Domi		Indicator	Dominance Test Worksheet:	
1. <u>Thuja plicata</u>	15	<u>/ei</u>	Speci yes	162 (	<u>Status</u> FAC	Number of Dominant Species	
2. Pseudotsuga menziesii	<u>5</u>		ves		FACU	That Are OBL, FACW, or FAC:	(A)
3.		_				Total Number of Dominant	
4		_				Species Across All Strata:	(B)
50% = <u>10</u> , 20% = <u>4</u>	<u>20</u>		= Tot	al Cov	er	Percent of Dominant Species	(A (D)
Sapling/Shrub Stratum (Plot size: 20' diameter)						That Are OBL, FACW, or FAC:	(A/B)
1						Prevalence Index worksheet:	
2						Total % Cover of: Multiply by:	
3		-				OBL species x1 =	
4		-				FACW species x2 =	
5		-				FAC species x3 =	
50% =, 20% =		-	= Tot	al Cov	er	FACU species x4 =	
Herb Stratum (Plot size: 10' diameter)						UPL species x5 =	
1. Polystichum munitum	20		yes		<u>FACU</u>	Column Totals:(A)	_(B)
2		_				Prevalence Index = B/A =	
3.					<del></del>	Hydrophytic Vegetation Indicators:	
4		= '				☐ 1 – Rapid Test for Hydrophytic Vegetation	
5						2 - Dominance Test is >50%	
6.						☐ 3 - Prevalence Index is ≤3.0¹	
7.		-				4. Marphalagical Adaptational (Provide cupporting	
8.		•				data in Remarks or on a separate sheet)	
9.		•				5 - Wetland Non-Vascular Plants <sup>1</sup>	
10.		-				П	
11		•				☐ Problematic Hydrophytic Vegetation¹ (Explain)	
50% = 10, 20% = 4	20		= Tot	al Cov	<u></u> er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
Woody Vine Stratum (Plot size:)	20		- 100	ai 00V	OI.	be present, unless disturbed or problematic.	
1							
2						Hydrophytic	
			= Tot	al Cov	—— er	Vegetation Yes ☐ No	$\boxtimes$
50% = 20% =			100	a. 00V		Present?	
50% =, 20% = % Bare Ground in Herb Stratum 90							

D2   2-10   10YR 3/3   100   gras loam	<u>IL</u>			-	-			Sampling Point:			
Color (molsit)	rofile Desci	ription: (Describe	o the dept	n needed to d		confirm the absence	e of indicator	rs.)			
2-10   10YR 3/3   100   10YR 4/4	Depth	Matrix			Redox Features		_				
2-10 10YR 3/3 100 grsa loam grsa loa	<del></del> _	Color (moist)	<u></u> %	Color (mo	oist) % Typ	pe <sup>1</sup> Loc <sup>2</sup>	Texture	<u> </u>	Remark	S	
Option   Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.   PL=Pore Lining, M=Matrix, RC=Root Channel grains = sandy   Purpose   Pur		<del></del> -			· — —						
Specific Soli Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Solis*;   Histosol (A1)   Indicators for Problematic Hydric Solis*;   Problematic Hydric Solis*;   Histosol (A1)   Indicators for Problematic Hydric Solis*;   Problematic Hydric Solis*;   Problematic Hydric Solis*;   Hydrices Solifice (A1)   Learny Mucky Mineral (F1) (except MLRA 1)   Very Shallow Dark Surface (TF12)   Phydragen Sulfide (A4)   Learny Mucky Mineral (F1) (except MLRA 1)   Very Shallow Dark Surface (F12)   Phydragen Sulfide (A4)   Depleted Matrix (F3)   Problematic (F2)   Phydragen Sulfide (A4)   Phydragen Sulfide (A4)   Phydragen Sulfide (F7)   Phydric Solis Present?   Present?   Present?   Present?   Present?   Present?   Present   Phydragen Sulfide (F7)   Phydragen Sulfide (F7		<u> </u>			· —			<u> </u>			
ype: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.   **Location: PL=Pore Lining, M=Matrix, RC=Root Channel ydric Soils Indicators: (Applicable to all LRRs, unless otherwise noted.)     Histoscol (A1)	<u>10-16</u>	<u>10YR 4/4</u>	<u>100</u>				gr sa loan	<u> </u>			
ype: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.   *Location: PL=Pore Lining, M=Matrix, RC=Root Channel ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)     Histoscol (A1)								-			
Same											
Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    Coation: PL=Pore Lining, M=Matrix, RC=Root Channel ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Indicators (Applicable to All LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Indicators (Applicable to All LRRs, unless otherwise noted.)   Indicators for Problematic Hydric Soils*:   Indicators for Problematic Hydric Hydric Soils*:   Indicators for Hydric Problematic Hydric Soils*:   Indicators for Hydric Hydr											
Histosol (A1)								<u>sa - sanuy</u>			
Histosol (A1)	 vne: C= Co	ncentration D=Der	letion RM=	Reduced Mat	riv CS=Covered or Coated :	Sand Grains 2	ocation: PI =P	Pore Lining M=Ma	trix RC=Roo	t Channel	
Histosol (A1)   Sandy Redox (S5)   2 cm Muck (A10)   Histosol (A2)   Stripped Matrix (S6)   Red Parent Material (TF2)   Histosol (A2)   Charmy Mucky Mineral (F1) (except MLRA 1)   Very Shallow Dark Surface (TF12)   Hydrogen Sulfide (A4)   Charmy Mucky Mineral (F1) (except MLRA 1)   Very Shallow Dark Surface (TF12)   Hydrogen Sulfide (A4)   Charmy Mucky Mineral (F1) (except MLRA 1)   Very Shallow Dark Surface (TF12)   Thick Dark Surface (A12)   Depleted Matrix (F2)   Other (Explain in Remarks)   Depleted Below Dark Surface (A11)   Depleted Dark Surface (F6)   Sandy Mucky Mineral (S1)   Depleted Dark Surface (F7)   Sandy Mucky Mineral (S1)   Depleted Dark Surface (F7)   Wetland Hydrology Indicators of hydrochytic vegetation and wetland hydrology must be present, unless disturbed or problematic.    Pre:	•				•	Dana Orams.					
Histic Epipedon (A2)	_		ibio to un E		·		_		-		
Black Histic (A3)											
Hydrogen Sulfide (A4)	_					1) (except MLRA 1)				F12)	
Depleted Below Dark Surface (A11)								-	•	,	
Thick Dark Surface (A12)	_ , ,	` ,	ace (A11)			,	_		,		
Sandy Mucky Mineral (S1)			, ,								
Sandy Gleyed Matrix (S4)	_				• •						
restrictive Layer (if present):  ype:	] Sandy (	Gleyed Matrix (S4)			Redox Depressions (F8)	•				ıt,	
emarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors.    Property   Part   Part	estrictive L	ayer (if present):									
Emarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors.    DROLOGY	уре:										
PROLOGY    Secondary Indicators (2 or more required)   Secondary Indicators (2 or more required)	enth (inches						2	V		No	∇
Primary Indicators (minimum of one required; check all that apply)  Secondary Indicators (2 or more required)  Surface Water (A1)			ets none of	the hydric soil	I indicators because of the h		resent		es 📋	No	
Surface Water (A1)	Remarks:	This soil profile me		the hydric soil	I indicators because of the h		resent		es 🗆	No	
High Water Table (A2)	Remarks:  'DROLOG'  Vetland Hyd	This soil profile me									
Saturation (A3)	Pemarks:  'DROLOG' Vetland Hyd  verimary Indica	This soil profile me  Y  rology Indicators: ators (minimum of c		t; check all tha	at apply)	igh matrix colors.	Seconda	ary Indicators (2 o	r more requir		
Water Marks (B1)	PROLOGIVetland Hydrimary Indica	Y rology Indicators: ators (minimum of ce Water (A1)		t; check all tha	at apply) Water-Stained Leaves (BS	nigh matrix colors.	Seconda U	ary Indicators (2 o later-Stained Leav	r more requir es (B9)		
Sediment Deposits (B2)	ZDROLOG` Vetland Hyd Trimary Indicate Surface High W	Y  Trology Indicators: ators (minimum of ce Water (A1) //ater Table (A2)		d; check all tha	at apply) Water-Stained Leaves (Bs (except MLRA 1, 2, 4A, a	nigh matrix colors.	Seconda W:	ary Indicators (2 o ater-Stained Leav	r more requires (B9)		
Drift Deposits (B3)	PROLOG' Vetland Hyd Primary Indicate Surface High W	Y  rology Indicators: ators (minimum of ce Water (A1) /ater Table (A2) tion (A3)		i; check all tha □	at apply)  Water-Stained Leaves (Bs (except MLRA 1, 2, 4A, a Salt Crust (B11)	nigh matrix colors.  9) and 4B)	Seconda W:	ary Indicators (2 o ater-Stained Leav ILRA 1, 2, 4A, and rainage Patterns (l	r more requir es (B9) d <b>4B)</b> B10)		
Algal Mat or Crust (B4)	VDROLOG Vetland Hyd rimary Indica Surface High W Saturat	Y rology Indicators: ators (minimum of ce Water (A1) //ater Table (A2) tion (A3) Marks (B1)		d; check all tha	at apply)  Water-Stained Leaves (BS  (except MLRA 1, 2, 4A, a  Salt Crust (B11)  Aquatic Invertebrates (B1	pigh matrix colors.  9) and 4B)	Seconda UW: (M) Dr	ary Indicators (2 o /ater-Stained Leav <b>ILRA 1, 2, 4A, an</b> rainage Patterns (I ry-Season Water T	r more requir es (B9) d <b>4B)</b> B10) Fable (C2)	ed)	
Iron Deposits (B5)	**Commarks:  **Commary Indication   Surface   High W   Saturar   Water   Sedime	Y rology Indicators: ators (minimum of ce Water (A1) //ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)		d; check all tha	at apply)  Water-Stained Leaves (BS (except MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C	9) and 4B)	Seconda  W: (M) Dr Dr	ary Indicators (2 o later-Stained Leav ILRA 1, 2, 4A, and rainage Patterns (I ry-Season Water T aturation Visible or	r more requir es (B9) d <b>4B)</b> B10) Fable (C2) n Aerial Imag	ed)	
Surface Soil Cracks (B6) Stunted or Stresses 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:  Furface Water Present? Yes No Depth (inches):  Vater Table Present? Yes No Depth (inches):  Forth (inches): Wetland Hydrology Present? Yes No	PROLOGIVetland Hydrimary Indication High Water   Saturarian Water   Sedime	Y rology Indicators: ators (minimum of ce Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)		d; check all tha	at apply)  Water-Stained Leaves (BS (except MLRA 1, 2, 4A, a Salt Crust (B11)  Aquatic Invertebrates (B1: Hydrogen Sulfide Odor (C Oxidized Rhizospheres ale	9) and 4B) 3) C1) long Living Roots (C3	Seconda	ary Indicators (2 o ater-Stained Leav ILRA 1, 2, 4A, and rainage Patterns (I ry-Season Water T aturation Visible on eomorphic Positio	r more requir es (B9) <b>d 4B)</b> B10) Fable (C2) in Aerial Imag in (D2)	ed)	
Inundation Visible on Aerial Imagery (B7)	Properties of the control of the con	Y rology Indicators: ators (minimum of context) ators (minimum of context) ators (minimum of context) ators (Marks		d; check all tha	at apply)  Water-Stained Leaves (BS) (except MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates (B1: Hydrogen Sulfide Odor (C Oxidized Rhizospheres ale Presence of Reduced Iror	9) and 4B) 3) C1) long Living Roots (C3 n (C4)	Seconda   W:   (M   Dr   Dr   Sa   Si	ary Indicators (2 of later-Stained Leav ILRA 1, 2, 4A, and rainage Patterns (I ry-Season Water T aturation Visible of eomorphic Position nallow Aquitard (D	r more requires (B9) d 4B) B10) Fable (C2) n Aerial Imagen (D2)	ed)	
Sparsely Vegetated Concave Surface (B8)  Field Observations:  Surface Water Present? Yes  No  Depth (inches):  Vater Table Present? Yes  No  Depth (inches):  Saturation Present? Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No	/DROLOG' Vetland Hyd Primary Indica Surface High W Satura Sedime Drift De Algal M	This soil profile me  Y  rology Indicators: ators (minimum of of the Water (A1) //ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5)		d; check all tha	wat apply)  Water-Stained Leaves (BS)  (except MLRA 1, 2, 4A, a Salt Crust (B11)  Aquatic Invertebrates (B15)  Hydrogen Sulfide Odor (C Oxidized Rhizospheres all Presence of Reduced Iron Recent Iron Reduction in	9) and 4B) 3) C1) long Living Roots (C3 n (C4) Tilled Soils (C6)	Seconda  Wi  (M)  Dr  Dr  Sa  Si  FA	ary Indicators (2 o later-Stained Leav ILRA 1, 2, 4A, and rainage Patterns (I ry-Season Water T aturation Visible of eomorphic Position hallow Aquitard (D AC-Neutral Test (E	r more requires (B9) d 4B) B10) Table (C2) n Aerial Imagen (D2) 3)	ed) ery (C9)	
ield Observations:  surface Water Present? Yes No Depth (inches):  Vater Table Present? Yes No Depth (inches):  saturation Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No	Prince De la Contraction de la	Y rology Indicators: ators (minimum of ce Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6)	ne required	d; check all tha	water-Stained Leaves (BS) (except MLRA 1, 2, 4A, a) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C) Oxidized Rhizospheres all Presence of Reduced Iron Recent Iron Reduction in Stunted or Stresses Plant	9) and 4B) 3) long Living Roots (C3 n (C4) Tilled Soils (C6) ts (D1) (LRR A)	Seconda   W:   (M   Dr   Dr   Sa   Si   Ge   Sh   Ra	ary Indicators (2 o /ater-Stained Leav /ILRA 1, 2, 4A, an- rainage Patterns (I ry-Season Water 7 aturation Visible or eomorphic Positionallow Aquitard (D AC-Neutral Test (D aised Ant Mounds	r more requir es (B9) d 4B) B10) Fable (C2) n Aerial Image n (D2) 3) 05) (D6) (LRR A	ed) ery (C9)	
Vater Table Present? Yes □ No ☒ Depth (inches):   isaturation Present? Yes □ No ☒ Depth (inches): Wetland Hydrology Present? Yes □ No	**Commarks:  **Commary Indication   Surface   Water    **Sedime**  **Drift De   Drift De    **Algal M    **Iron De    **Surface   Inunda	Y rology Indicators: ators (minimum of ce Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria	one required	d; check all tha	water-Stained Leaves (BS) (except MLRA 1, 2, 4A, a) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C) Oxidized Rhizospheres all Presence of Reduced Iron Recent Iron Reduction in Stunted or Stresses Plant	9) and 4B) 3) long Living Roots (C3 n (C4) Tilled Soils (C6) ts (D1) (LRR A)	Seconda   W:   (M   Dr   Dr   Sa   Si   Ge   Sh   Ra	ary Indicators (2 o /ater-Stained Leav /ILRA 1, 2, 4A, an- rainage Patterns (I ry-Season Water 7 aturation Visible or eomorphic Positionallow Aquitard (D AC-Neutral Test (D aised Ant Mounds	r more requir es (B9) d 4B) B10) Fable (C2) n Aerial Image n (D2) 3) 05) (D6) (LRR A	ed) ery (C9)	
Vater Table Present? Yes □ No ☒ Depth (inches):   isaturation Present? Yes □ No ☒ Depth (inches): Wetland Hydrology Present? Yes □ No	PROLOGIVETION OF THE PROPERTY	Y rology Indicators: ators (minimum of ce Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria	one required	d; check all tha	water-Stained Leaves (BS) (except MLRA 1, 2, 4A, a) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C) Oxidized Rhizospheres all Presence of Reduced Iron Recent Iron Reduction in Stunted or Stresses Plant	9) and 4B) 3) long Living Roots (C3 n (C4) Tilled Soils (C6) ts (D1) (LRR A)	Seconda   W:   (M   Dr   Dr   Sa   Si   Ge   Sh   Ra	ary Indicators (2 o /ater-Stained Leav /ILRA 1, 2, 4A, an- rainage Patterns (I ry-Season Water 7 aturation Visible or eomorphic Positionallow Aquitard (D AC-Neutral Test (D aised Ant Mounds	r more requir es (B9) d 4B) B10) Fable (C2) n Aerial Image n (D2) 3) 05) (D6) (LRR A	ed) ery (C9)	
aturation Present? Yes \( \text{No.} \( \text{No.} \text{No.} \( \text{No.} \text{No.} \)	VDROLOG' Vetland Hyd rimary Indica Surface High W Satura' Sedime Sedime Iron De Surface Inunda Sparse	This soil profile me  Y  rology Indicators: ators (minimum of control of the cont	one required	d; check all tha	water-Stained Leaves (BS) (except MLRA 1, 2, 4A, a) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C) Oxidized Rhizospheres alleresence of Reduced Iron Recent Iron Reduction in Stunted or Stresses Plants Other (Explain in Remarks)	9) and 4B) 3) long Living Roots (C3 n (C4) Tilled Soils (C6) ts (D1) (LRR A)	Seconda   W:   (M   Dr   Dr   Sa   Si   Ge   Sh   Ra	ary Indicators (2 o /ater-Stained Leav /ILRA 1, 2, 4A, an- rainage Patterns (I ry-Season Water 7 aturation Visible or eomorphic Positionallow Aquitard (D AC-Neutral Test (D aised Ant Mounds	r more requir es (B9) d 4B) B10) Fable (C2) n Aerial Image n (D2) 3) 05) (D6) (LRR A	ed) ery (C9)	
	VDROLOG' Vetland Hyd Vetland Hyd Vetland High W Satural Sedime Drift De Algal M Iron De Surface Inunda Sparse ield Observ	This soil profile me  This soil profile me  Trology Indicators: ators (minimum of ce Water (A1) Vater 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 ations: r Present?  Y	al Imagery (ave Surface	d; check all tha	wat apply)  Water-Stained Leaves (BS)  (except MLRA 1, 2, 4A, a Salt Crust (B11)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C Oxidized Rhizospheres all Presence of Reduced Iron Recent Iron Reduction in Stunted or Stresses Plant Other (Explain in Remarks)	9) and 4B) 3) long Living Roots (C3 n (C4) Tilled Soils (C6) ts (D1) (LRR A)	Seconda   W:   (M   Dr   Dr   Sa   Si   Ge   Sh   Ra	ary Indicators (2 o /ater-Stained Leav /ILRA 1, 2, 4A, an- rainage Patterns (I ry-Season Water 7 aturation Visible or eomorphic Positionallow Aquitard (D AC-Neutral Test (D aised Ant Mounds	r more requir es (B9) d 4B) B10) Fable (C2) n Aerial Image n (D2) 3) 05) (D6) (LRR A	ed) ery (C9)	
	Primary Indication Surface High W Saturat Sedime Sedime Iron De Inunda Sparsee Field Observ Surface Water Table & Saturation Preincludes cap	This soil profile me  Y  rology Indicators: ators (minimum of of the Water (A1) //ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca ations: r Present? Y  Present? Ellary fringe)  Y	al Imagery ( ave Surface es  es  es	d; check all tha	at apply)  Water-Stained Leaves (BS (except MLRA 1, 2, 4A, a Salt Crust (B11)  Aquatic Invertebrates (B1: Hydrogen Sulfide Odor (C Oxidized Rhizospheres all Presence of Reduced Iron Recent Iron Reduction in Stunted or Stresses Plant: Other (Explain in Remarks)  Depth (inches):	9) and 4B) 3) long Living Roots (C3 n (C4) Tilled Soils (C6) ts (D1) (LRR A) s) We	Seconda   W:   (M   Dr   Dr   Sa   St   St   FA   Ra	ary Indicators (2 of later-Stained Leav ILRA 1, 2, 4A, and rainage Patterns (Ing-Season Water Taturation Visible on eomorphic Position hallow Aquitard (D AC-Neutral Test (Daised Ant Mounds rost-Heave Hummer	r more requir es (B9) d 4B) B10) Fable (C2) in Aerial Imag in (D2) 3) (D6) (LRR A	ed) ery (C9)	
	Primary Indication Surface High W Saturat Sedime Sedime Iron De Inunda Sparsee Field Observ Surface Water Table & Saturation Preincludes cap	This soil profile me  Y  rology Indicators: ators (minimum of of the Water (A1) //ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ely Vegetated Conca ations: r Present? Y  Present? Ellary fringe)  Y	al Imagery ( ave Surface es  es  es	d; check all tha	water-Stained Leaves (BS) (except MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates (B1) Hydrogen Sulfide Odor (C Oxidized Rhizospheres all Presence of Reduced Iron Recent Iron Reduction in Stunted or Stresses Plant Other (Explain in Remarks)  Depth (inches):  Depth (inches):  Depth (inches):	9) and 4B) 3) long Living Roots (C3 n (C4) Tilled Soils (C6) ts (D1) (LRR A) s) We	Seconda  (M)  (M)  Dr  Dr  Sa  Si  Ra  Fre	ary Indicators (2 of later-Stained Leav ILRA 1, 2, 4A, and rainage Patterns (Ing-Season Water Taturation Visible on eomorphic Position hallow Aquitard (D AC-Neutral Test (Daised Ant Mounds rost-Heave Hummer	r more requir es (B9) d 4B) B10) Fable (C2) in Aerial Imag in (D2) 3) (D6) (LRR A	ed) ery (C9)	

Project Site:	NK United			City/Cour	ty: <u>Poulsbo/Kitsap</u> S	Sampling Date:	<u>10-18-23</u>	<u>3</u>
Applicant/Owner:	Raydient				State: <u>WA</u> S	Sampling Point:	TP 21	
Investigator(s):	J. Bartlett, C. Bartlett				Section, Township, Range	S 31 T 27 N R 2 E	<u>WM</u>	
Landform (hillslope, ter	rrace, etc.): <u>Hillslope</u>		L	ocal relief (cond	ave, convex, none): <u>convex</u>	Slope	(%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes	į		NWI classif	ication: <u>None</u>		
Are climatic / hydrologic	c conditions on the site typical for	this time of y	ear?	Yes ⊠	No	Remarks.)		
Are Vegetation ☐,	Soil □, or Hydrology	☐, significa	antly disturl	oed? Are "	Normal Circumstances" present?	Yes	⊠ No	
Are Vegetation ☐,	Soil □, or Hydrology	☐, naturall	y problema	itic? (If ne	eded, explain any answers in Rem	arks.)		
	<u> </u>		· · · · ·	. 1	transects, important feature	s, etc.		
Hydrophytic Vegetation	1 Present?	Yes 🛚	No 🗆	le the Same	nlad Araa			
Hydric Soil Present?		Yes	No 🗵	within a We		Yes	☐ No	
Wetland Hydrology Pre	esent?	Yes 🗌	No 🗵					
					d between Poulsbo and Kingston.			
	nents, most of which are either cle ⊢in the trough downslope of the tro				ed in the South Segment between \$ ed.	3tottlemeyer Road ar	nd Bond R	≀oad. It
VEGETATION - Use	e scientific names of plants							
Tree Stratum (Plot siz	:e: <u>30' diameter</u> )	Absolute % Cover	Dominan Species?		Dominance Test Worksheet:			
1. Alnus rubra		<u>10</u>	yes	FAC	Number of Dominant Species	_		
2.					That Are OBL, FACW, or FAC:	<u>3</u>		(A)
3					Total Number of Dominant			
4					Species Across All Strata:	<u>4</u>		(B)
50% = <u>5,</u> 20% = <u>2</u>		<u>10</u>	= Total C	over	Percent of Dominant Species	7-		(4 (5)
Sapling/Shrub Stratun	m (Plot size: <u>20' diameter</u> )				That Are OBL, FACW, or FAC:	<u>75</u>		(A/B)
1. Rubus spectabilis		<u>35</u>	<u>yes</u>	FAC	Prevalence Index worksheet:			
2					Total % Cover of:	<u>Multipl</u>	y by:	
3					OBL species	x1 =		
4					FACW species	x2 =		
5					FAC species	x3 =		
50% =, 20% =			= Total C	over	FACU species	x4 =		
Herb Stratum (Plot siz					UPL species	x5 =		
1. Polystichum munit	·	<u>35</u>	yes	FACU	Column Totals:	A)		(B)
Urtica dioica	<u></u>	<u>15</u>	yes	FAC		ndex = B/A =		(=)
3. Geranium robertia	anum	<u>5</u>	<u>no</u>	FACU	Hydrophytic Vegetation Indica			
4. Rubus ursinus	<u> III III III III III III III III III I</u>	<u>5</u>	no no	FAC	☐ 1 – Rapid Test for Hydropl			
5. Ranunculus repen	าร	<u>5</u>	no no	FAC	<ul><li>☑ 2 - Dominance Test is &gt;50</li></ul>			
6	<u>10</u>	<u>u</u>	110	1710				
					☐ 3 - Prevalence Index is <u>&lt;</u> 3			
7					4 - Morphological Adaptati data in Remarks or on a		ting	
8								
9					5 - Wetland Non-Vascular			
10					☐ Problematic Hydrophytic V	egetation¹ (Explain)		
11	•				<sup>1</sup> Indicators of hydric soil and wet	aland hydrology must		
50% = <u>32.5</u> , 20% = <u>13</u>		<u>65</u>	= Total C	over	be present, unless disturbed or			
Woody Vine Stratum (	(Plot size:)							
1					Hydrophytic			
2					Vegetation Yes	s 🛛	No	
50% =, 20% =			= Total C	over	Present?	_		_
% Bare Ground in Her	rb Stratum <u>35</u>							
Remarks:	The hydrophytic vegetation criteria	is met beca	use there is	greater than 5	% dominance by FAC plant specie	s.		
1								

achoo)	Color (moiot)			Color (mo	Redox Feat			vturo.		Domorko		
nches)	Color (moist)	100		Color (mo	oist) %	Type <sup>1</sup> Loc		xture		Remarks		
<u>0-3</u> <u>3-12</u>	10YR 2/2 10YR 3/3	<u>100</u> 100	='			<u> </u>		dy loam dy loam				
<u>12-16</u>	10YR 4/4	100	='					dy loam	<del></del>			
<u>v</u>	<u></u>	<u></u>	•					<u> </u>				
			_									
			<u> </u>				_					
			_									
			_									
pe: C= C	oncentration, D=De	pletion, F	≀M=Redu	ced Matri	ix, CS=Covered or Co	ated Sand Grains.	<sup>2</sup> Location	: PL=Pore Lini	ng, M=Matrix, l	RC=Root	Channel	
dric Soil	ndicators: (Appli	cable to a	all LRRs,	unless	otherwise noted.)			Indicators for	Problematic	Hydric S	oils³:	
Histos	ol (A1)				Sandy Redox (S5)			□ 2 cm M	uck (A10)			
Histic I	Epipedon (A2)				Stripped Matrix (S6)			☐ Red Pa	rent Material (	TF2)		
Black I	Histic (A3)				Loamy Mucky Miner	ral (F1) (except MLR	A 1)	☐ Very SI	nallow Dark Sເ	ırface (TF	12)	
Hydro	gen Sulfide (A4)				Loamy Gleyed Matri	x (F2)		☐ Other (	Explain in Ren	narks)		
Deplet	ed Below Dark Sur	face (A11	)		Depleted Matrix (F3)	)						
Thick [	Dark Surface (A12)	1			Redox Dark Surface	: (F6)		_				
Sandy	Mucky Mineral (S1	1)			Depleted Dark Surfa	ıce (F7)		3Indicators of h	nydrophytic veg drology must b			
Sandy	Gleyed Matrix (S4	)			Redox Depressions	(F8)			rbed or proble		,	
strictive I	_ayer (if present):											
e:												
oth (inche	s):					Hydric S	oils Presen	t?	Yes		No	[
marks:	This soil profile m	neets none	e of the h	ydric soil	indicators because of		5.					
marks:	Y		of the h	ydric soil	indicators because of		3.					
PROLOG	·Y drology Indicators	<b>S</b> :										
PROLOG etland Hyd mary Indic	Y drology Indicators ators (minimum of	<b>S</b> :		ck all that	t apply)	the high matrix colors		econdary Indic	,	-	d)	
PROLOG tland Hyd mary Indic Surfac	Y drology Indicators cators (minimum of ce Water (A1)	<b>S</b> :			t apply) Water-Stained Leave	the high matrix colors		] Water-Sta	ined Leaves (E	39)	d)	
ROLOG tland Hyv mary Indio Surfac High V	drology Indicators ators (minimum of the Water (A1) Vater Table (A2)	<b>S</b> :		ck all that	t apply) Water-Stained Leave (except MLRA 1, 2,	the high matrix colors		Water-Sta	ined Leaves (E 2, 4A, and 4B	39)	d)	
ROLOG tland Hy nary Indio Surfac High V	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) ation (A3)	<b>S</b> :		ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11)	the high matrix colors es (B9) 4A, and 4B)	<u>8</u>	Water-Sta (MLRA 1, Drainage I	ined Leaves (E 2, 4A, and 4B Patterns (B10)	39) )	d)	
ROLOG tland Hyd nary Indid Surfac High V Satura Water	Y  drology Indicators cators (minimum of the Water (A1)  Vater Table (A2) ation (A3)  Marks (B1)	<b>S</b> :		ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate	es (B9)  4A, and 4B)	<u>s</u>	Water-Sta (MLRA 1, Drainage I Dry-Seaso	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table	39) ) e (C2)		
PROLOG tland Hyd mary Indio Surfac High V Satura Water Sedim	drology Indicators cators (minimum of ce Water (A1) Vater Table (A2) ation (A3) Marks (B1) ent Deposits (B2)	<b>S</b> :		ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11)  Aquatic Invertebrate: Hydrogen Sulfide Oc	es (B9)  4A, and 4B)  es (B13) dor (C1)	s 	Water-Sta (MLRA 1, Drainage   Dry-Seaso	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Ae	39)  (C2)  (C3)		
PROLOG Itland Hyw mary Indio Surfac High V Satura Water Sedim Drift D	drology Indicators eators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) thent Deposits (B2) deposits (B3)	<b>S</b> :		ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11)  Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizospher	es (B9)  4A, and 4B)  es (B13) dor (C1) res along Living Root		Water-Sta (MLRA 1, Drainage I Dry-Seaso Saturation Geomorph	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Ael	39)  (C2)  (C3)		
PROLOG etland Hyd mary Indio Surfac High V Satura Water Sedim Drift D	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) stion (A3) Marks (B1) tent Deposits (B2) teposits (B3) Mat or Crust (B4)	<b>S</b> :		ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reduce	es (B9) 4A, and 4B) es (B13) dor (C1) res along Living Root ed Iron (C4)	S 	Water-Sta (MLRA 1, Drainage I Dry-Sease Saturation Geomorph Shallow A	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Ael nic Position (D2 quitard (D3)	39)  (C2)  (C3)		
PROLOG etland Hyd mary Indic Surfac High V Satura Water Sedim Drift D Algal I	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) tent Deposits (B2) teposits (B3) Mat or Crust (B4) teposits (B5)	s: one requ		ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reduce Recent Iron Reduction	es (B9)  4A, and 4B)  es (B13) dor (C1) res along Living Root ed Iron (C4) on in Tilled Soils (C6)		Water-Sta (MLRA 1, Drainage I Dry-Sease Saturation Geomorph Shallow A FAC-Neut	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Aer nic Position (D2 quitard (D3) ral Test (D5)	39)  (C2)  (C3)  (C2)  (C3)	ry (C9)	
PROLOG tland Hyd mary India Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) tent Deposits (B2) teposits (B3) Mat or Crust (B4) teposits (B5) the Soil Cracks (B6)	s: one requ	ired; ched	ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reduce Recent Iron Reductic Stunted or Stresses	es (B9)  4A, and 4B)  es (B13) dor (C1) res along Living Root ed Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)	s (C3) [	Water-Sta (MLRA 1, Drainage I Dry-Seasc Saturation Geomorph Shallow A FAC-Neut Raised An	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Aer nic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	39) a (C2) rial Image 2)	ry (C9)	
PROLOG  Itland Hyd  mary Indio  Surfac  High V  Satura  Water  Sedim  Drift D  Algal I  Iron D  Surfac  Inunda	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) thent Deposits (B2) theposits (B3) Mat or Crust (B4) theposits (B5) the Soil Cracks (B6) ation Visible on Aei	s: one requ	ery (B7)	ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reduce Recent Iron Reduction	es (B9)  4A, and 4B)  es (B13) dor (C1) res along Living Root ed Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)		Water-Sta (MLRA 1, Drainage I Dry-Seasc Saturation Geomorph Shallow A FAC-Neut Raised An	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Aer nic Position (D2 quitard (D3) ral Test (D5)	39) a (C2) rial Image 2)	ry (C9)	
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PROLOG etland Hyd mary Indic Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Spars	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) Ation (A3) Marks (B1) Ation (B2) Ation (B3) Mat or Crust (B4) Ation Crust (B4) Ation Visible on Aei Ation V	s: one requ rial Image cave Surf	ery (B7)	ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reduce Recent Iron Reductic Stunted or Stresses Other (Explain in Re	es (B9)  4A, and 4B)  es (B13) dor (C1) res along Living Root ed Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A)	s (C3) [	Water-Sta (MLRA 1, Drainage I Dry-Seasc Saturation Geomorph Shallow A FAC-Neut Raised An	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Aer nic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	39) a (C2) rial Image 2)	ry (C9)	
PROLOG Stland Hyd mary Indic High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Spars	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) tent Deposits (B2) teposits (B3) Mat or Crust (B4) teposits (B5) the Soil Cracks (B6) ation Visible on Aet tely Vegetated Contivations: ter Present?	s: fone requirial Image cave Surfi	ery (B7) face (B8)	ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reducet Recent Iron Reductic Stunted or Stresses Other (Explain in Re	es (B9)  4A, and 4B)  es (B13) dor (C1) res along Living Root ed Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A) emarks)	s (C3) [	Water-Sta (MLRA 1, Drainage I Dry-Seasc Saturation Geomorph Shallow A FAC-Neut Raised An	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Aer nic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	39) a (C2) rial Image 2)	ry (C9)	
DROLOG  Stland Hyd  mary India  Surface  High V  Satura  Water  Sedim  Drift D  Algal I  Iron D  Surface Inunda  Spars  Id Obsert  fface Water	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) tent Deposits (B2) teposits (B3) Mat or Crust (B4) teposits (B5) te Soil Cracks (B6) ation Visible on Aer tely Vegetated Convextions: ter Present?	s: fone requirial Image cave Surfi	ery (B7)	ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reduce Recent Iron Reductic Stunted or Stresses Other (Explain in Re	es (B9)  4A, and 4B)  es (B13) dor (C1) res along Living Root ed Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A) emarks)	s (C3) [	Water-Sta (MLRA 1, Drainage I Dry-Seasc Saturation Geomorph Shallow A FAC-Neut Raised An	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Aer nic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	39) a (C2) rial Image 2)	ry (C9)	
PROLOG  Itland Hyd  Surface  High V  Satura  Water  Sedim  Drift D  Surface  Iron D  Surface  Inunda  Spars  Id Obser  Face Water  ter Table	drology Indicators ators (minimum of the Water (A1)) Vater Table (A2) ation (A3) Marks (B1) Ment Deposits (B2) Mat or Crust (B4) Mat or Crust (B4) Mat or Crust (B4) Mat or Crust (B5) Mat or Crust (B6) Mat or Cr	rial Image cave Surfi Yes [	ery (B7) face (B8)	ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11) Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reducet Recent Iron Reductic Stunted or Stresses Other (Explain in Re	es (B9)  4A, and 4B)  s (B13) dor (C1) res along Living Root ed Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A) emarks)	s (C3) [	Water-Sta (MLRA 1, Drainage I Dry-Seasc Saturation Geomorph Shallow A FAC-Neut Raised An	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Ael nic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) we Hummocks	39) a (C2) rial Image 2)	ry (C9)	•
PROLOG  Itland Hyd  mary India  Surface  High V  Satura  Water  Sedim  Drift D  Algal I  Iron D  Surface  Inunda  Spars  Id Observ  face Water  tare Table  turation Poludes cap	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) tent Deposits (B2) teposits (B3) Mat or Crust (B4) teposits (B5) the Soil Cracks (B6) ation Visible on Aet tely Vegetated Continuations: ter Present? Present? Tresent?	s: fone requirial Image cave Surfi Yes [ Yes [ Yes [	ery (B7) ace (B8) No	ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11)  Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reduce Recent Iron Reductic Stunted or Stresses Other (Explain in Re  Depth (inches): Depth (inches):	es (B9)  4A, and 4B)  es (B13)  dor (C1)  res along Living Root ed Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A) emarks)	S (C3) [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	Water-Sta (MLRA 1, Drainage I Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised An Frost-Hea	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Ael nic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) we Hummocks	39)  (C2)  (C2)  (a)  (LRR A)  (D7)	ry (C9)	
PROLOG etland Hyd mary India Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars eld Observ rface Water ater Table turation Procludes cap	drology Indicators cators (minimum of the Water (A1) Vater Table (A2) ation (A3) Marks (B1) tent Deposits (B2) teposits (B3) Mat or Crust (B4) teposits (B5) the Soil Cracks (B6) ation Visible on Aet tely Vegetated Continuations: ter Present? Present? Tresent?	s: fone requirial Image cave Surfi Yes [ Yes [ Yes [	ery (B7) ace (B8) No	ck all that	t apply)  Water-Stained Leave (except MLRA 1, 2, Salt Crust (B11)  Aquatic Invertebrate: Hydrogen Sulfide Oc Oxidized Rhizosphei Presence of Reducet Recent Iron Reductic Stunted or Stresses Other (Explain in Re  Depth (inches): Depth (inches):	es (B9)  4A, and 4B)  es (B13)  dor (C1)  res along Living Root ed Iron (C4) on in Tilled Soils (C6) Plants (D1) (LRR A) emarks)	S (C3) [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	Water-Sta (MLRA 1, Drainage I Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised An Frost-Hea	ined Leaves (E 2, 4A, and 4B Patterns (B10) on Water Table Visible on Ael nic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) we Hummocks	39)  (C2)  (C2)  (a)  (LRR A)  (D7)	ry (C9)	

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-18-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	TP 22	
Investigator(s):	J. Bartlett, C. Bartlett				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>-WM</u>	
Landform (hillslope, te	errace, etc.): <u>Hillslope</u>		Loca	l relief (conca	ave, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛛	No 🗌 (If no, explain	in Remarks.)		
Are Vegetation ☐,	, Soil $\square$ , or Hydrology [	☐, significa	antly disturbed	? Are "N	Normal Circumstances" presen	t? Yes	⊠ No	
Are Vegetation ☐,	, Soil $\square$ , or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in R	emarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🛛		Lat A are			
Hydric Soil Present?		Yes 🗌		Is the Sample within a Wet		Yes	□ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlem	neyer Road an	d Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided	into
	ments, most of which are either cle	ear cut or fore	sted. Test Plo	ot 22 is locate	ed in the South Segment betwe	en Stottlemeyer Road a	nd Bond Ro	oad. It
is iii a low	v topographic area.							
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: <u>30' diameter</u> )	Absolute % Cover	Dominant Species 2	Indicator	Dominance Test Workshee	et:		
Pseudotsuga mei	nziesii	10	Species? yes	Status FACU	Number of Deminant Specie	6		
2	<u></u>		<u> </u>		Number of Dominant Specie That Are OBL, FACW, or FA			(A)
3.					Total Number of Dominant			
4.					Species Across All Strata:	<u>6</u>		(B)
50% = <u>5</u> , 20% = <u>2</u>		<u>10</u>	= Total Cove		Percent of Dominant Species			
	m (Plot size: 20' diameter)	_			That Are OBL, FACW, or FA			(A/B)
Rubus spectabilis		<u>10</u>	<u>yes</u>	FAC	Prevalence Index workshe	 et:		
Sambucus racem	_	<u>10</u>	yes	FACU	Total % Cover of		lv bv:	
Tsuga heterophy		<u>5</u>	<u>yes</u>	FACU	OBL species	x1 =		
4.	_	_			FACW species	x2 =		
5.					FAC species	x3 =		
50% = <u>12.5</u> , 20% = <u>5</u>	j	25	= Total Cove	r	FACU species	_ x4 =	· · · · · · · · · · · · · · · · · · ·	
Herb Stratum (Plot si		_			UPL species	x5 =		
1. Polystichum mun		<u>25</u>	<u>yes</u>	FACU	Column Totals:	_ (A)		(B)
Dryopteris expan		<u>5</u>	<u>yes</u>	FAC		e Index = B/A =	(	(5)
3	<u>50</u>	<u>u</u>	<u>ycs</u>	1710	Hydrophytic Vegetation Inc			
3. <u> </u>					☐ 1 – Rapid Test for Hyd			
5.		_			2 - Dominance Test is			
6					☐ 3 - Prevalence Index is	<del>-</del>		
7						otations¹ (Provide suppo on a separate sheet)	rting	
8					_			
9					5 - Wetland Non-Vascu	liar Plants		
10					☐ Problematic Hydrophyt	ic Vegetation¹ (Explain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must	<del>i</del>	
50% = <u>15</u> , 20% = <u>6</u>		<u>30</u>	= Total Cove	r	be present, unless disturbed			
Woody Vine Stratum	(Plot size:)							
1					H. dan about a			
2					Hydrophytic Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% =	: <u></u>		= Total Cove	r	Present?	- <b>u</b>	.=	
% Bare Ground in He	erb Stratum <u>70</u>							
Remarks:	The hydrophytic vegetation criteria	is not met be	ecause there is	s less than 50	)% dominance by FAC plant sp	ecies.		

Depth	Matrix				Redox Feature	es						
nches)	Color (moist)	%	Color (	moist)		Type <sup>1</sup> Loc <sup>2</sup>	 Texture	е		Remarks	3	
0-5	10YR 3/3	100					sandy l					
<u>5-14</u>	10YR 4/4	100		_			sandy l					
14-20	10YR 4/3	100		_			sandy l		npacted			
				<u> </u>								
				_								
						<u></u>		_				
				_			· .					
				_	<u>-</u>							
pe: C= Co	oncentration, D=Depl	etion, RM=	Reduced M	atrix, CS=	Covered or Coate	ed Sand Grains.	<sup>2</sup> Location: PL	.=Pore Linir	ng, M=Matrix, l	RC=Root	t Channel	l
dric Soil I	Indicators: (Applica	ble to all L	RRs, unles	s otherw	se noted.)		Ind	icators for	Problematic	Hydric S	ioils³:	
Histose	ol (A1)			Sand	y Redox (S5)			2 cm M	uck (A10)			
Histic I	Epipedon (A2)			Stripp	ed Matrix (S6)			Red Pa	rent Material (	TF2)		
Black I	Histic (A3)			Loam	y Mucky Mineral (	(F1) (except MLRA	1)	Very Sh	າallow Dark Sເ	ırface (Tl	=12)	
Hydrog	gen Sulfide (A4)			Loam	y Gleyed Matrix (l	(F2)		Other (F	Explain in Ren	narks)		
Deplet	ed Below Dark Surfac	ce (A11)		Deple	eted Matrix (F3)							
Thick [	Dark Surface (A12)			Redo	x Dark Surface (F	F6)						
Sandy	Mucky Mineral (S1)			Deple	eted Dark Surface	e (F7)			ydrophytic veg Irology must b			
Sandy	Gleyed Matrix (S4)			Redo	x Depressions (F8	8)			rbed or proble		ι,	
strictive l	Layer (if present):											
e:	-											
oth (inche	s):					Hydric So	ils Present?		Yes		No	
marks:	This soil profile mee	ets none of	the hydric s		ors because of the	e high matrix colors.						
DROLOG	e <b>Y</b>	ets none of	the hydric s	oli Indicat	ors because of the	e high matrix colors.						
PROLOG	iY drology Indicators:				ors because of the	e high matrix colors.		ndon (India	otoro /2 or mo	ro roquir	2d)	
PROLOG tland Hyd mary Indic	iY drology Indicators: cators (minimum of or		l; check all l	hat apply)			Seco	-	ators (2 or mo		ed)	
PROLOG tland Hyd mary Indic Surfac	drology Indicators: cators (minimum of or we Water (A1)			hat apply)	r-Stained Leaves	(B9)		Water-Stai	ned Leaves (E	39)	ed)	
ROLOG tland Hyd mary Indic Surfac High V	drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2)		d; check all t	hat apply)   Water (exce	r-Stained Leaves pt MLRA 1, 2, 4A	(B9)	Seco	Water-Stai	ned Leaves (E 2, 4A, and 4B	39) )	ed)	
PROLOG tland Hyd mary Indio Surfac High V	drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3)		i; check all t	hat apply)   Water (exce	r-Stained Leaves ept MLRA 1, 2, 4A Crust (B11)	(B9) <b>A, and 4B)</b>	Seco	Water-Stai (MLRA 1, 2 Drainage F	ned Leaves (E 2, 4A, and 4B Patterns (B10)	39) <b>)</b>	ed)	
ROLOG tland Hyd mary Indic Surfac High V Satura Water	drology Indicators: cators (minimum of or ce Water (A1) Water Table (A2) ation (A3)		t; check all t	hat apply)   Water   (exce   Salt (	r-Stained Leaves <b>Pt MLRA 1, 2, 4</b> Crust (B11) tic Invertebrates (I	(B9) <b>A, and 4B)</b> (B13)	Seco	Water-Stai (MLRA 1, 2) Drainage F Dry-Seaso	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table	39) )	·	
ROLOG tland Hyd mary Indic 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)		d; check all t	hat apply)   Water (exce   Salt (	r-Stained Leaves  Por MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I	(B9) <b>A, and 4B)</b> (B13)	Seco	Water-Stai (MLRA 1, 2) Drainage F Dry-Seaso Saturation	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Ae	39)  (C2)  (C2)	·	
PROLOG tland Hyd mary Indic 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)		d; check all t	hat apply)   Water (exce   Salt C   Aquar   Hydro	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  ogen Sulfide Odor  zed Rhizospheres	(B9) A, and 4B) (B13) r (C1) s along Living Roots	Seco	Water-Stain (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Ael ic Position (D2	39)  (C2)  (C2)	·	
PROLOG tland Hyd 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) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)		d; check all f	hat apply)  Water (exce Salt C Aquar Hydro	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  pgen Sulfide Odor  zed Rhizospheres  ence of Reduced I	(B9) A, and 4B) (B13) r (C1) s along Living Roots lron (C4)	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Ael ic Position (D2 quitard (D3)	39)  (C2)  (C2)	·	
PROLOG  Itland 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)		d; check all t	hat apply)   Water (exce   Salt C   Aquar   Hydro	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  gen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction	(B9) A, and 4B) B13) r (C1) s along Living Roots lron (C4) in Tilled Soils (C6)	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Aer ic Position (D2 quitard (D3)	39)  (C2)  (C3)  (C3)	ery (C9)	
PROLOG tland Hyd mary Indic Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac	drology Indicators: cators (minimum of or e Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) meposits (B5) me Soil Cracks (B6)	ne required	d; check all t	hat apply)  Water (exce Salt C Aquai Hydro Oxidi Prese Recei	r-Stained Leaves  Ppt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  pgen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction  ed or Stresses Pla	(B9) A, and 4B)  B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr Raised An	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	39)  (C2)  rial Image 2)	ery (C9)	
PROLOG tland Hyd 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) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) deposits (B5) deposits (B5) deposits (B6) deposits (B6) deposits (B6)	ne required	d; check all t	hat apply)  Water (exce Salt C Aquai Hydro Oxidi Prese Recei	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  gen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction	(B9) A, and 4B)  B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr Raised An	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Aer ic Position (D2 quitard (D3)	39)  (C2)  rial Image 2)	ery (C9)	
PROLOG Istland Hyd mary Indic Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Sparse	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) Deposits (B5) Deposits (B6) Deposits (B6) Deposits (B6) Deposits (B6)	ne required	d; check all t	hat apply)  Water (exce Salt C Aquai Hydro Oxidi Prese Recei	r-Stained Leaves  Ppt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  pgen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction  ed or Stresses Pla	(B9) A, and 4B)  B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr Raised An	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	39)  (C2)  rial Image 2)	ery (C9)	
Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Sparse	drology Indicators: cators (minimum of or ce Water (A1)  Vater Table (A2) ation (A3)  Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) meposits (B5) mes Soil Cracks (B6) ation Visible on Aerial mely Vegetated Concar vations:	ne required I Imagery (i ve Surface	d; check all f	hat apply)  Water (exce   Salt C   Aquar   Hydro   Oxidi;   Prese   Recer   Stunt	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  pgen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction  ed or Stresses Pla  f (Explain in Rema	(B9) A, and 4B)  B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr Raised An	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	39)  (C2)  rial Image 2)	ery (C9)	
PROLOG  Itland Hyd  mary Indic  Surfac  High V  Satura  Water  Sedim  Drift D  Algal I  Iron D  Surfac  Inunda  Spars  Id Observ  face Water	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 ely Vegetated Concar vations: er Present? Ye	ne required I Imagery (i ve Surface	d; check all t	hat apply)   Water (exce   Salt C   Aquai   Hydro   Oxidi;   Prese   Recer   Stunt   Other	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  gen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction  ed or Stresses Pla  (Explain in Rema	(B9) A, and 4B)  B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr Raised An	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	39)  (C2)  rial Image 2)	ery (C9)	
PROLOG  Itland Hyd  mary Indic  Surfac  High V  Satura  Water  Sedim  Drift D  Algal I  Iron D  Surfac  Inunda  Sparse  Id Observ  face Water	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 ely Vegetated Conca- vations: er Present? Yee	I Imagery (ive Surface	d; check all t	hat apply)  Water (exce Salt C Aquar Oxidia Prese Recer Stunt	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  pgen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction  ed or Stresses Pla  f (Explain in Rema	(B9) A, and 4B)  B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	(C3)	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr Raised An Frost-Heav	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Ael ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) /e Hummocks	39)  (C2)  rial Image 2)  (LRR A)	ery (C9)	
PROLOG tland Hyd mary Indic Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Spars Id Observ face Wate ter Table	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 ely Vegetated Conca- vations: er Present? Yee	I Imagery (ive Surface	d; check all t	hat apply)  Water (exce Salt C Aquar Oxidia Prese Recer Stunt	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  gen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction  ed or Stresses Pla  (Explain in Rema	(B9) A, and 4B)  B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr Raised An Frost-Heav	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Ael ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) /e Hummocks	39)  (C2)  rial Image 2)	ery (C9)	0
PROLOG  Itland Hyd  mary Indic  Surfac  High V  Satura  Water  Sedim  Drift D  Algal I  Iron D  Surfac  Inunda  Spars  Id Observ  face Water  ter Table  turation Proludes 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 ely Vegetated Concar vations: er Present? Yeresent? Yeresent?	I Imagery (i	d; check all f	hat apply)   Water (exce   Salt C   Aqual   Hydro   Oxidi:   Prese   Recer   Stunt   Other	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  ogen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction  ed or Stresses Pla  (Explain in Rema  Depth (inches):  Depth (inches):	(B9) B13) r (C1) s along Living Roots lron (C4) in Tilled Soils (C6) ants (D1) (LRR A) arks)	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr Raised An Frost-Heav	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Ael ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) /e Hummocks	39)  (C2)  rial Image 2)  (LRR A)	ery (C9)	0
PROLOG tland Hyd mary Indic Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Spars Id Obsert face Wate ter Table uration Pi	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 ely Vegetated Concar vations: er Present? Present? Ye resent? Ye resent?	I Imagery ( ve Surface es  gauge, mo	d; check all f	hat apply)  Water (exce Salt C Aquar Hydro Recel Stunt Other  C C C C C C C C C C C C C C C C C C	r-Stained Leaves  pt MLRA 1, 2, 4A  Crust (B11)  tic Invertebrates (I  pgen Sulfide Odor  zed Rhizospheres  ence of Reduced I  nt Iron Reduction  ed or Stresses Pla  (Explain in Rema  Depth (inches):  Depth (inches):	(B9) A, and 4B) (B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A) arks)  spections), if availab	Seco	Water-Stai (MLRA 1, Drainage F Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr Raised An Frost-Heav	ned Leaves (E 2, 4A, and 4B Patterns (B10) n Water Table Visible on Ael ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) /e Hummocks	39)  (C2)  rial Image 2)  (LRR A)	ery (C9)	•

Project Site: <u>NK United</u>					City/Coun	y: <u>Poulsbo/Kitsap</u> Sampling Date: <u>10-18-</u>	<u>·23</u>
Applicant/Owner: <u>Raydient</u>						State: WA Sampling Point: TP 23	
Investigator(s): <u>J. Bartlett, C. Bartlett</u>						Section, Township, Range: <u>S 31 T 27 N R 2 EWM</u>	
Landform (hillslope, terrace, etc.): <u>Hillslope</u>				Loca	al relief (conca	ve, convex, none): <u>convex</u> Slope (%): <u>5</u>	!
Subregion (LRR): MLRA 2	Lat:		<u>.</u>			Long: Datum:	
Soil Map Unit Name: Poulsbo gravelly sandy loam,						NWI classification: None	
Are climatic / hydrologic conditions on the site typical f		_			'es ⊠	No  (If no, explain in Remarks.)	
Are Vegetation   , Soil  , or Hydrology	□, sig		-			-	1o 🗆
Are Vegetation ☐, Soil ☐, or Hydrology	□, nat	turally	proble	ematic	? (If ne	ded, explain any answers in Remarks.)	
CLIMMADY OF FINDINGS. Attach cite man	houdes		مائم م	i	locations	transacta important factures at	
SUMMARY OF FINDINGS – Attach site map s				•	locations,	transects, important features, etc.	
Hydrophytic Vegetation Present?	Yes		No		Is the Samp	ed Area	ı. <b>1</b> 7
Hydric Soil Present?	Yes		No		within a We	land? Yes N	lo 🛚
Wetland Hydrology Present?	Yes		No				
	clear cut o					between Poulsbo and Kingston. The site is large so was divid d in the South Segment within a trough that slopes down to the	
/EGETATION – Use scientific names of plant							
Tree Stratum (Plot size: 30' diameter)	Absolu % Cov		Domii Speci		Indicator Status	Dominance Test Worksheet:	
1. Thuja plicata	<u>25</u>	<u>CI</u>	yes	<u>cs:</u>	FAC	Number of Dominant Species	
2. Alnus rubra	10		ves		FAC	That Are OBL, FACW, or FAC:	(A)
3						Total Number of Dominant	
4						Species Across All Strata:	(B)
50% = <u>17.5,</u> 20% = <u>7</u>	<u>35</u>		= Tota	al Cove	er	Percent of Dominant Species	(A /D)
Sapling/Shrub Stratum (Plot size: 20' diameter)						That Are OBL, FACW, or FAC:	(A/B)
1						Prevalence Index worksheet:	
2						Total % Cover of: Multiply by:	
3						OBL species x1 =	_
4						FACW species x2 =	_
5						FAC species x3 =	_
50% =, 20% =			= Tota	al Cove	er	FACU species x4 =	_
Herb Stratum (Plot size: 10' diameter)						UPL species x5 =	_
1. Polystichum munitum	<u>15</u>		yes		<u>FACU</u>	Column Totals:(A)	(B)
2						Prevalence Index = B/A =	
3					<del></del>	Hydrophytic Vegetation Indicators:	
4	_					☐ 1 – Rapid Test for Hydrophytic Vegetation	
5							
6.						☐ 3 - Prevalence Index is ≤3.0¹	
7						4. Marphalagical Adaptational (Provide augnorting	
8.						data in Remarks or on a separate sheet)	
9.						5 - Wetland Non-Vascular Plants <sup>1</sup>	
10.						□ Problematic Hydrophytic Vegetation¹ (Explain)	
11						—	
50% = <u>7.5</u> , 20% = <u>3</u>	15		= Tota	al Cove	er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
Woody Vine Stratum (Plot size:)						be present, unless disturbed or problematic.	
1							
2					<del></del>	Hydrophytic	
50% =, 20% =			= Tota	al Cove	er	Vegetation Yes ⊠ No	
						Present?	
% Bare Ground in Herb Stratum 100							

	Matrix					Redox Feat	itures							
nches)	Color (moist)		<u> </u>	Color (r	noist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	re		Remarks	3	
<u>0-12</u>	10YR 3/3		<u>00</u>		_				sandy		-			
<u>12-16</u>	<u>10YR 4/6</u>	<u>10</u>	<u>00</u>		_				sandy	loam	_			
	-				_						=			
		_	_	-	_						_			
	·	-			_				-		=			
			_		_									
	· <u></u>				_						=			
pe: C= Co	ncentration, D=De	epletion	, RM=Re	educed M	– atrix, CS:	=Covered or Co	oated Sand	d Grains.	<sup>2</sup> Location: P	L=Pore Lining,	M=Matrix,	RC=Root	t Channe	el
dric Soil I	ndicators: (Appli	cable to	o all LRI	Rs, unles	s otherw	/ise noted.)			In	dicators for Pr	oblematic	Hydric S	ioils³:	
Histoso	l (A1)				Sand	dy Redox (S5)				2 cm Muc	k (A10)			
Histic E	pipedon (A2)				Strip	ped Matrix (S6)	)			Red Parei	nt Material (	TF2)		
Black F	listic (A3)				Loan	ny Mucky Miner	ral (F1) <b>(e</b> x	xcept MLRA	1) 🗆	Very Shal	low Dark Sเ	urface (TI	F12)	
Hydrog	en Sulfide (A4)				Loan	ny Gleyed Matri	ix (F2)			Other (Ex	plain in Ren	narks)		
Deplete	ed Below Dark Sur	face (A	.11)		Depl	eted Matrix (F3)	)							
Thick D	ark Surface (A12)	)			Redo	ox Dark Surface	e (F6)							
Sandy	Mucky Mineral (S1	1)			Depl	eted Dark Surfa	ace (F7)		³lr	ndicators of hyd wetland hydro				
	Gleyed Matrix (S4				Redo	ox Depressions	(F8)	1		unless disturb				
	ayer (if present):													
e: oth (inches									s Present?		Yes		No	
								1						
emarks:	This soil profile m	neets no	one of the	e hydric s	oil indicat	tors because of	f the high r	matrix colors.						
DROLOG	Υ		one of the	e hydric s	oil indicat	tors because of	f the high r	matrix colors.						
PROLOG tland Hyd	Y Irology Indicators	s:					f the high r	matrix colors.	Sec	ondary Indicato	ors (2 or mo	re require	ed)	
PROLOG tland Hyd mary Indic	Υ	s:			nat apply			matrix colors.		ondary Indicato Water-Staine			ed)	
PROLOG tland Hyd mary Indic Surface	Y Irology Indicators ators (minimum of	s:		check all ti	nat apply Wate	)	res (B9)			-	ed Leaves (E	39)	ed)	
ROLOG tland Hyd nary Indic Surfac High W	Y Irology Indicators ators (minimum of e Water (A1)	s:		check all ti	nat apply Wate (exce	) er-Stained Leav	res (B9)			Water-Staine	d Leaves (E	39)	ed)	
ROLOG tland Hyd nary Indic Surface High W Satura	Y Irology Indicators ators (minimum of e Water (A1) /ater Table (A2)	s:		check all the	nat apply Wate (exco	) er-Stained Leave	res (B9) , <b>4A</b> , and 4			Water-Staine	ed Leaves (E 4A, and 4B tterns (B10)	39) <b>()</b>	ed)	
ROLOG tland Hyd mary Indic Surface High W Satura Water	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3)	s:		check all ti	nat apply Wate ( <b>exc</b> r Salt (	) er-Stained Leave ept MLRA 1, 2, Crust (B11)	res (B9) , <b>4A, and 4</b>			Water-Staine (MLRA 1, 2,	d Leaves (E 4A, and 4B tterns (B10) Water Table	39) (i) (C2)		
ROLOG tland Hyd mary Indic Surface High W Satura Water Sedime	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1)	s:		check all the	nat apply Wate (exce Salt ( Aqua Hydr	) er-Stained Leave ept MLRA 1, 2, Crust (B11) atic Invertebrate	res (B9) , <b>4A</b> , <b>and</b> 4 es (B13) dor (C1)	4B)		Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ae	39) (3) (C2) (C2)		
tland Hyd mary Indic Surfac High W Satura Water Sedimo	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	s:		check all the	nat apply Wate (exce Salt o Aqua Hydr Oxidi	) er-Stained Leav ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Oo	res (B9) , <b>4A, and</b> 4 es (B13) dor (C1) eres along	<b>4B)</b> Living Roots		Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi	d Leaves (E  4A, and 4B  tterns (B10)  Water Table  sible on Ael  Position (D2	39) (3) (C2) (C2)		
PROLOG etland Hyd mary Indic Surface High W Satura Water Sedime Drift De	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	s:		check all the	mat apply Wate (exc Salt o Aqua Hydr Oxidi Preso	er-Stained Leav ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Od ized Rhizosphe	res (B9)  , 4A, and 4 es (B13) dor (C1) eres along ed Iron (C4	<b>4B)</b> Living Roots 4)	(C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic	Ad Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ael Position (D2 tard (D3)	39) (3) (C2) (C2)		
PROLOG Stland Hyd mary Indic Surface High W Satura Water Sedime Drift De Algal M Iron De	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Vat or Crust (B4)	s: f one red		check all the	mat apply Wate (exci Salt ( Aqua Hydr Oxidi Presc Rece	er-Stained Leav ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Od ized Rhizosphe ence of Reduce	res (B9)  4A, and 4 es (B13) dor (C1) eres along ed Iron (C2 ion in Tille	<b>4B)</b> Living Roots 4) d Soils (C6)	(C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ae Position (D2 ttard (D3)	39) (i) (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii)	ery (C9)	
ROLOG tland Hyd nary Indic Surface High W Satura Water Sedime Drift De Algal M Iron De	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Vat or Crust (B4) eposits (B5)	s: f one red	quired; c	check all ti	nat apply Wate (exce Salt o Aqua Hydr Oxidi Press Rece Stuni	er-Stained Leave ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Od ized Rhizosphe ence of Reduce ent Iron Reduction	res (B9)  , 4A, and 4 es (B13) dor (C1) eres along ed Iron (C4 ion in Tilled	<b>4B)</b> Living Roots 4) d Soils (C6)	CC3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ae Position (D2 tard (D3) Test (D5)	39) e (C2) rial Image 2) (LRR A	ery (C9)	
PROLOG tland Hyd mary Indica Surface High W Satura Water Sedime Drift De Algal M Iron De Surface Inunda	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) e Soil Cracks (B6)	s: f one rec	quired; c	check all the	nat apply Wate (exce Salt o Aqua Hydr Oxidi Press Rece Stuni	er-Stained Leave ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Or ized Rhizosphe ence of Reduce ent Iron Reduction	res (B9)  , 4A, and 4 es (B13) dor (C1) eres along ed Iron (C4 ion in Tilled	<b>4B)</b> Living Roots 4) d Soils (C6)	CC3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ae Position (D2 tard (D3) Test (D5)	39) e (C2) rial Image 2) (LRR A	ery (C9)	
PROLOG etland Hyd mary Indica Surface High W Satura Water Sedime Drift De Algal M Iron De Surface Inunda Sparse	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Vat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aei	s: f one rec	quired; c	check all the	nat apply Wate (exce Salt o Aqua Hydr Oxidi Press Rece Stuni	er-Stained Leave ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Or ized Rhizosphe ence of Reduce ent Iron Reduction	res (B9)  , 4A, and 4 es (B13) dor (C1) eres along ed Iron (C4 ion in Tilled	<b>4B)</b> Living Roots 4) d Soils (C6)	CC3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ae Position (D2 tard (D3) Test (D5)	39) e (C2) rial Image 2)	ery (C9)	
PROLOG Atland Hyden Mary Indicators  Surface High W Saturators  Water Sedime Drift De Algal M Iron De Surface Inunda Sparse	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Vat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aerely Vegetated Convertations:	s: f one rec	quired; c gery (B7 urface (B	check all the	mat apply Wate (exc Salt of Aqua Hydr Oxidi Press Rece Stuni Othe	er-Stained Leave ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Or ized Rhizosphe ence of Reduce ent Iron Reduction	res (B9)  , 4A, and 4 es (B13) dor (C1) eres along ed Iron (C4 ion in Tilled Plants (Demarks)	<b>4B)</b> Living Roots 4) d Soils (C6)	CC3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ae Position (D2 tard (D3) Test (D5)	39) e (C2) rial Image 2)	ery (C9)	
PROLOG  Atland Hyde  Mary Indicate  Surface  High W  Saturate  Water  Sedime  Drift De  Algal M  Iron De  Surface  Inunda  Sparse  Id Observe	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Vat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aer ely Vegetated Convertions: er Present?	s: f one red rial Imaç cave Su	quired; c	check all the	nat apply Wate (exci Salt ( Aqua Hydr Oxidi Presc Stuni Othe	er-Stained Leave ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Od ized Rhizosphe ence of Reduce ent Iron Reduction ted or Stresses er (Explain in Re	res (B9)  4A, and 4 es (B13) dor (C1) eres along ed Iron (C2 ion in Tiller Plants (D emarks)	<b>4B)</b> Living Roots 4) d Soils (C6)	CC3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ae Position (D2 tard (D3) Test (D5)	39) e (C2) rial Image 2)	ery (C9)	
PROLOG  Atland Hyde  Mary Indicate  Surface  High W  Saturat  Water  Sedime  Drift De  Algal M  Iron De  Surface  Inunda  Sparse  Id Observe  face Water  turation Pre	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Vat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aer ely Vegetated Convations: er Present? Present?	s: f one red rial Image	quired; c	check all ti	mat apply Wate (exce Salt of Aqua Hydr Oxidi Prese Stunn Othe	er-Stained Leave ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Oc ized Rhizosphe ence of Reduce ent Iron Reduction ted or Stresses er (Explain in Re	res (B9)  , 4A, and 4 es (B13) dor (C1) eres along ed Iron (C4 ion in Tillee Plants (D emarks)	4B) Living Roots 4) d Soils (C6) 1) (LRR A)	(C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ael Position (D2 tard (D3) Test (D5) Hounds (D6) Hummocks	39) e (C2) rial Image 2)	(C9)	No
PROLOG etland Hyden mary Indicated Surfaced High W Saturated Water Sediment Drift Den Algal Market Iron Den Surfaced Inundated Sparset eld Observer face Water atter Table Interval on Pro-	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Vat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aer ely Vegetated Convertions: er Present? Present?	s: f one red rial Imag cave Su Yes Yes Yes	quired; c	check all ti	nat apply Wate (exci Salt ( Aqua Hydri Oxidi Prese Stuni Othe	er-Stained Leave ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Oc ized Rhizosphe ence of Reduce ent Iron Reduction ted or Stresses er (Explain in Re	res (B9)  4A, and 4 es (B13) dor (C1) eres along ed Iron (C2 ion in Tiller Plants (D emarks)	Living Roots 4) d Soils (C6) 1) (LRR A)	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ael Position (D2 tard (D3) Test (D5) Hounds (D6) Hummocks	39) e (C2) rial Image 2) (LRR A)	(C9)	
ROLOG tland Hyd mary Indice Surface High W Satura Water Sedime Drift De Surface Inunda Sparse Id Observ face Wate ter Table I uration Pro-	Y Irology Indicators ators (minimum of e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Vator Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aer ely Vegetated Conventions: er Present? Present? esent? esent?	s: f one red rial Imag cave Su Yes Yes Yes	quired; c	check all ti	nat apply Wate (exci Salt ( Aqua Hydri Oxidi Prese Stuni Othe	er-Stained Leave ept MLRA 1, 2, Crust (B11) atic Invertebrate rogen Sulfide Oc ized Rhizosphe ence of Reduce ent Iron Reduction ted or Stresses er (Explain in Re	res (B9)  4A, and 4 es (B13) dor (C1) eres along ed Iron (C2 ion in Tiller Plants (D emarks)	Living Roots 4) d Soils (C6) 1) (LRR A)	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	d Leaves (E 4A, and 4B tterns (B10) Water Table sible on Ael Position (D2 tard (D3) Test (D5) Hounds (D6) Hummocks	39) e (C2) rial Image 2) (LRR A)	(C9)	

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-18-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	TP 24	
Investigator(s):	J. Bartlett, C. Bartlett				Section, Township, Ra	nge: <u>S 31 T 27 N R 2 E</u>	<u>-WM</u>	
Landform (hillslope, te	errace, etc.): <u>Hillslope</u>		Loca	l relief (conca	ive, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	, Soil □, or Hydrology [	☐, significa	ntly disturbed	? Are "N	Normal Circumstances" presen	t? Yes	⊠ No	
Are Vegetation ☐,	, Soil $\square$ , or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in F	temarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🛛	No 🗆		Lad Assa			
Hydric Soil Present?		Yes 🗌		Is the Sample within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlem	eyer Road an	d Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided	into
	ments, most of which are either cle ext to the parking lot.	ear cut or fore	sted. Test Plo	ot 24 is locate	d at the south end of the South	Segment where there	s a shallow	/
troughthe								
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: <u>30' diameter</u> )	Absolute % Cover	Dominant Species?	Indicator	Dominance Test Workshee	ot:		
1. Alnus rubra		% Cover 20	Species? yes	<u>Status</u> <u>FAC</u>	Number of Dominant Specie	c.		
2. Thuja plicata		<u>15</u>	<u>yes</u>	FAC	That Are OBL, FACW, or FA			(A)
3			<del></del>		Total Number of Dominant			
4.					Species Across All Strata:	<u>4</u>		(B)
50% = <u>17.5</u> , 20% = <u>7</u>	,	35	= Total Cove		Percent of Dominant Species	9		
	<u>m</u> (Plot size: <u>20' diameter</u> )	_			That Are OBL, FACW, or FA			(A/B)
Rubus spectabilis		<u>10</u>	<u>yes</u>	FAC	Prevalence Index workshe	et:		
2	<del>-</del>		<u>,,</u>		Total % Cover of		ılv bv:	
3					OBL species	x1 =	<u>., ~, .</u>	
4					FACW species	x2 =		
5.			· <u> </u>		FAC species	- x3 =		
50% = <u>5</u> , 20% = <u>2</u>		<u>10</u>	= Total Cove	er	FACU species	_ x4 =		
Herb Stratum (Plot si	ize: 10' diameter)			•	UPL species	_ x5 =		
Polystichum mun	·	<u>5</u>	<u>yes</u>	FACU		(A)		(B)
2.	<u>itam</u>	<u> </u>	<u>yes</u>	1700	Column Totals:	(^) ce Index = B/A =		(D)
3					Hydrophytic Vegetation Inc			
5.		_			<ul><li>☐ 1 – Rapid Test for Hyd</li><li>☑ 2 - Dominance Test is</li></ul>	-		
6					☐ 3 - Prevalence Index is	; <u>&lt;</u> 3.0¹		
7						otations¹ (Provide suppo on a separate sheet)	rting	
8				—	_			
9					5 - Wetland Non-Vascu	ılar Plants'		
10					☐ Problematic Hydrophyt	tic Vegetation¹ (Explain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must		
50% = <u>2.5</u> , 20% = <u>1</u>		<u>5</u>	= Total Cove	er	be present, unless disturbed			
Woody Vine Stratum	_(Plot size:)							
1					H. Janet C.			
2					Hydrophytic Vegetation	Yes 🛛	No	
50% =, 20% =	;		= Total Cove	er	Present?		110	
% Bare Ground in He	erb Stratum <u>100</u>							
Remarks:	The hydrophytic vegetation criteria	is met becau	use there is gre	eater than 50	% dominance by FAC plant sp	ecies.		
1								

SOIL Sampling Point: TP 24 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 100 <u>duff</u> 0-3 3-10 10YR 3/3 <u>100</u> sandy loam 10-16 10YR 4/6 100 sandy loam <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site: <u>N</u>	NK United			City/Coun	ty: <u>Poulsbo/Kitsap</u>	Sampling Date	:: <u>1</u>	0-19-23	
Applicant/Owner: <u>F</u>	<u>Raydient</u>				State: WA	Sampling Poin	t: <u>I</u>	TP 25	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Ra	nge: <u>S 31 T 27 I</u>	<u>N R 2 EW</u>	<u>M</u>	
Landform (hillslope, terra	ace, etc.): <u>Hillslope</u>		Loca	al relief (conca	ave, convex, none): <u>convex</u>		Slope (%	6): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Da	tum:	_	
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI cla	ssification: <u>N</u>	lone		
Are climatic / hydrologic	conditions on the site typical for	this time of y	ear? Y	es 🖂	No 🔲 (If no, explain	in Remarks.)			
Are Vegetation ☐,	Soil □, or Hydrology	☐, signification ☐	antly disturbed	l? Are "l	Normal Circumstances" presen	t?	Yes 🗵	<b></b> No	
Are Vegetation ☐,	Soil ☐, or Hydrology	□, naturall	y problematic	? (If nee	eded, explain any answers in F	lemarks.)			
	DINGS – Attach site map sh			locations,	transects, important feat	ures, etc.			
Hydrophytic Vegetation I	riesent?	Yes ⊠	No 🗆	Is the Samp	led Area		V	7 N.	<b>5</b> 7
Hydric Soil Present?	cont?	Yes ☐ Yes ☐	No ⊠ No ⊠	within a We	tland?		Yes [	] No	
Wetland Hydrology Pres						TI 11 1 1			
	p United (NK United) is located a lents, most of which are either cle								
_					-				
/EGETATION – Use	scientific names of plants								
Tree Stratum (Plot size	•	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Workshee	et:			
1. Thuja plicata		<u>% Cover</u> 15	yes	FAC	Number of Dominant Specie	e			
2					That Are OBL, FACW, or FA		<u>2</u>		(A)
3.					Total Number of Dominant				
4.					Species Across All Strata:		<u>3</u>		(B)
50% = <u>7.5</u> , 20% = <u>3</u>		15	= Total Cove	<del></del> er	Percent of Dominant Specie				
<del></del>	(Plot size: <u>20' diameter</u> )				That Are OBL, FACW, or FA		<u>66</u>		(A/B)
1. Rubus spectabilis		<u>25</u>	<u>yes</u>	FAC	Prevalence Index workshe	et:			
2					Total % Cover of	<u>of:</u>	Multiply I	by:	
3					OBL species	<u>-</u>	x1 =		
4					FACW species	_	x2 =		
5					FAC species	_	x3 =		
50% = <u>12.5</u> , 20% = <u>5</u>		<u>25</u>	= Total Cove	er	FACU species	_	x4 =		
Herb Stratum (Plot size	e: <u>10' diameter</u> )				UPL species	_	x5 =		
Polystichum munitu	um	<u>10</u>	<u>yes</u>	FACU	Column Totals:	(A)			(B)
2	_	<u> </u>				ce Index = B/A =			,
3					Hydrophytic Vegetation In	•			
4.					☐ 1 – Rapid Test for Hyd		on		
5		-			<ul><li>☑ 1 = Rapid Test for Flyd</li><li>☑ 2 - Dominance Test is</li></ul>		JII		
6					☐ 3 - Prevalence Index is	_			
7					4 - Morphological Adap data in Remarks or			ıg	
8					_		ccij		
9					5 - Wetland Non-Vasc	liar Plants			
10					☐ Problematic Hydrophy	ic Vegetation¹ (E	xplain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrolog	ıv must		
50% = <u>5</u> , 20% = <u>2</u>		<u>10</u>	= Total Cove	er	be present, unless disturbed		y maor		
Woody Vine Stratum (F	Plot size:)								
1				-	Hydrophytic				
2					Hydrophytic Vegetation	Yes 🖂		No	
50% =, 20% =	<del></del>		= Total Cove	er	Present?	_			_
% Bare Ground in Herb	o Stratum <u>90</u>								
Remarks: Th	he hydrophytic vegetation criteria	is met becau	use there is gr	eater than 50	% dominance by FAC plant sp	ecies.			
ı									

					Redox Feature							
inches)	Color (moist)	%	Co	lor (mois	st) %	Type <sup>1</sup> Loc <sup>2</sup>	Text	ure		Remarks	5	
0-12	10YR 2/2	<u>100</u>					duff	sa lo				
<u>12-16</u>	10YR 4/6	<u>100</u>	•				sand	y loam				
			•									
						<del></del>			•			
						<del></del>			•			
			•					<del></del>				
			•									
					<del></del>	<del></del>						
-					x, CS=Covered or Coate	ed Sand Grains.		PL=Pore Lining,				el
	ndicators: (Applic	able to all	LRRs, u		•			ndicators for Pro		Hydric S	ioils³:	
Histoso				_	Sandy Redox (S5)			2 cm Muck		TEO)		
	pipedon (A2)			_	Stripped Matrix (S6)	/E4) /		Red Paren	•	•	T40\	
	listic (A3)				Loamy Cloved Matrix (		-	☐ Very Shallo		•	-12)	
	en Sulfide (A4)	food (A11)			Loamy Gleyed Matrix (	,F2)	L	Other (Exp	nain in Ken	iaiks)		
-	ed Below Dark Sur				Depleted Matrix (F3) Redox Dark Surface (F	-6\						
	ark Surface (A12)				Depleted Dark Surface	•	3	Indicators of hydr	ophytic ved	netation a	and	
-	Mucky Mineral (S1 Gleyed Matrix (S4)	•			Redox Depressions (Fa			wetland hydrol	ogy must b	e presen		
-	ayer (if present):			<u> </u>	redux Depressions (1)	-   		unless disturbe	ed or proble	matic.		
pe:	ayer (ii present).											
JC.							oils Present?	•	Yes		No	
		eets none o	f the hyd	ric soil ir	ndicators because of the				163			
DROLOG	This soil profile m		f the hyd	ric soil ii	ndicators because of the				163			
DROLOG*	This soil profile m	::						condary Indicato			ed)	
DROLOG' etland Hyd	This soil profile m  Y  rology Indicators	::		all that a		e high matrix colors			rs (2 or mo	re require	ed)	
OROLOG` etland Hyd imary Indica	This soil profile m  Y  rology Indicators ators (minimum of	::		all that a	apply)	e high matrix colors	Se	condary Indicato	rs (2 or mo d Leaves (E	re require	ed)	
DROLOG` etland Hyd mary Indica Surface High W	Y rology Indicators ators (minimum of	::		all that a	apply) Water-Stained Leaves	e high matrix colors	Se	condary Indicato Water-Stained	rs (2 or mo d Leaves (E IA, and 4B	re require 39)	ed)	
DROLOG' etland Hyd mary Indica Surface High W Satural	Y  rology Indicators ators (minimum of e Water (A1) //ater Table (A2)	::		all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 4 <i>8</i>	e high matrix colors  (B9)  A, and 4B)	Se	condary Indicator Water-Stained (MLRA 1, 2, 4	rs (2 or mo d Leaves (E IA, and 4B erns (B10)	re require 39)	ed)	
DROLOG' etland Hyd mary Indica Surface High W Satural Water I	Y  rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3)	::		all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 4A) Salt Crust (B11)	e high matrix colors  (B9)  A, and 4B)	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt	rs (2 or mo d Leaves (E <b>IA, and 4B</b> derns (B10) Vater Table	re require 39) )	·	
DROLOG` etland Hyd mary Indica Surface High W Saturat Water I	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1)	::		all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebrates (	(B9) A, and 4B)  (B13)	. Se	condary Indicato Water-Stained ( <b>MLRA 1, 2,</b> 4 Drainage Patt Dry-Season V	rs (2 or mo d Leaves (E IA, and 4B terns (B10) Vater Table sible on Aer	re require 39) ) e (C2) rial Image	·	
DROLOG` etland Hyd mary Indica Surface High W Satural Water I Sedime Drift De	Y rology Indicators ators (minimum of a Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	::		all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor	(B9) A, and 4B)  (B13)  r (C1) s along Living Roots	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis	rs (2 or mod Leaves (EIA, and 4B) terns (B10) Vater Table sible on Aer	re require 39) ) e (C2) rial Image	·	
DROLOG' etland Hyd mary Indica Surface High W Satural Water I Sedime Drift De	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	::		all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres	(B9) A, and 4B)  (B13) r (C1) s along Living Roots	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F	rs (2 or mod Leaves (EIA, and 4B) erns (B10) Vater Table sible on Aer Position (D2 ard (D3)	re require 39) ) e (C2) rial Image	·	
DROLOG etland Hyd mary Indica Surface High W Satural Water I Sedime Drift De Algal W	This soil profile m  Y  rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4)	::		all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 4,6 Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I	(B9) A, and 4B) (B13) r (C1) s along Living Roots lron (C4) in Tilled Soils (C6)	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit	rs (2 or mod Leaves (E IA, and 4B erns (B10) Vater Table sible on Aer Position (D2 ard (D3) Test (D5)	re require 39) ) • (C2) rial Image 2)	ery (C9)	
DROLOGY etland Hyd mary Indica Surface High W Satural Water I Sedime Drift De Algal M Iron De	This soil profile m  Tology Indicators ators (minimum of a Water (A1) //ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5)	s: one require	d; check	all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 4A Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction	(B9) A, and 4B) (B13) r (C1) s along Living Roots lron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Se (C3)	condary Indicator Water-Stained (MLRA 1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit	rs (2 or mod Leaves (EIA, and 4B) Vater Table Sible on Aer Position (D2 ard (D3) Test (D5) ounds (D6)	re require 39) ) • (C2) rial Image 2)	ery (C9)	
DROLOG' etland Hyd imary Indica   Surface   High W   Saturat   Water I   Sedime   Drift De   Algal M   Iron De   Surface   Inunda	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6)	s: one require	d; check	all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Stunted or Stresses Pla	(B9) A, and 4B) (B13) r (C1) s along Living Roots lron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	rs (2 or mod Leaves (EIA, and 4B) Vater Table Sible on Aer Position (D2 ard (D3) Test (D5) ounds (D6)	re require 39) ) • (C2) rial Image 2)	ery (C9)	
DROLOG' etland Hyd imary Indica Surface High W Saturat Water I Sedime Drift De Algal M Iron De Surface	rology Indicators ators (minimum of a Water (A1) / vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aer ly Vegetated Conditions and the soil of the	s: one require	d; check	all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Stunted or Stresses Pla	(B9) A, and 4B) (B13) r (C1) s along Living Roots lron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	rs (2 or mod Leaves (EIA, and 4B) Vater Table Sible on Aer Position (D2 ard (D3) Test (D5) ounds (D6)	re require 39) ) • (C2) rial Image 2)	ery (C9)	)
DROLOG' etland Hyd imary Indica Surface High W Saturat Water I Sedime Drift De Algal M Iron De Surface Inunda Sparse	This soil profile m  This soil profile m  Trology Indicators ators (minimum of a Water (A1)  Vater Table (A2) tion (A3)  Marks (B1) ent Deposits (B2) eposits (B3) At or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aer ally Vegetated Conditations:	s: one require	d; check	all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 44 Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Stunted or Stresses Pla	(B9) A, and 4B) (B13) r (C1) s along Living Roots lron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	rs (2 or mod Leaves (EIA, and 4B) Vater Table Sible on Aer Position (D2 ard (D3) Test (D5) ounds (D6)	re require 39) ) • (C2) rial Image 2)	ery (C9)	
DROLOGY etland Hyd imary Indica   Surface   High W   Satural   Water I   Sedime   Drift De   Algal M   Iron De   Surface   Inunda   Sparse	This soil profile m  This soil profile m  Trology Indicators ators (minimum of a Water (A1)  Vater Table (A2) tion (A3)  Marks (B1) ant Deposits (B2) and or Crust (B4) apposits (B5) a Soil Cracks (B6) tion Visible on Aer ally Vegetated Conc ations:  Tresent?	one require	d; check (B7) e (B8)	all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 44) Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Stunted or Stresses Pla Other (Explain in Rema	(B9) A, and 4B) (B13) r (C1) s along Living Roots lron (C4) in Tilled Soils (C6) ants (D1) (LRR A)	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	rs (2 or mod Leaves (EIA, and 4B) Vater Table Sible on Aer Position (D2 ard (D3) Test (D5) ounds (D6)	re require 39) ) • (C2) rial Image 2)	ery (C9)	
DROLOGY Tetland Hyd Timary Indica Thigh W Thigh W Thigh W Thigh Water I Thigh W Thigh	This soil profile m  This soil profile m  Trology Indicators ators (minimum of a Water (A1)  Vater Table (A2) tion (A3)  Marks (B1) ant Deposits (B2) and or Crust (B4) apposits (B5) a Soil Cracks (B6) tion Visible on Aer ally Vegetated Conc ations:  The Present?  Present?  Sesent?  Illary fringe)	one require  rial Imagery cave Surface  Yes   Yes   Yes   Yes   Yes	d; check  (B7) e (B8)  No No	all that a	apply) Water-Stained Leaves (except MLRA 1, 2, 4A) Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Stunted or Stresses Pla Other (Explain in Rema	(B9) (B9) A, and 4B) (B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A) arks)	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	rs (2 or mod Leaves (EIA, and 4B) derns (B10) Vater Table sible on Aer Position (D2) ard (D3) Test (D5) ounds (D6) Hummocks	re require 39) ) • (C2) rial Image 2)	ery (C9)	No
DROLOGY  retland Hydrimary Indicate  Surface High W Saturat Sedime Drift De Hon De Inunda Sparse eld Observer Cater Table Faturation Precidudes capi	This soil profile m  This soil profile m  Trology Indicators ators (minimum of a Water (A1)  Vater Table (A2) tion (A3)  Marks (B1) ant Deposits (B2) and or Crust (B4) apposits (B5) a Soil Cracks (B6) tion Visible on Aer ally Vegetated Conc ations:  The Present?  Present?  Sesent?  Illary fringe)	one require  rial Imagery cave Surface  Yes   Yes   Yes   Yes   Yes	d; check  (B7) e (B8)  No No	all that a	apply)  Water-Stained Leaves (except MLRA 1, 2, 44) Salt Crust (B11) Aquatic Invertebrates ( Hydrogen Sulfide Odor Oxidized Rhizospheres Presence of Reduced I Recent Iron Reduction Stunted or Stresses Pla Other (Explain in Remain	(B9) (B9) A, and 4B) (B13) r (C1) s along Living Roots Iron (C4) in Tilled Soils (C6) ants (D1) (LRR A) arks)	Se	condary Indicator Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave F	rs (2 or mod Leaves (EIA, and 4B) derns (B10) Vater Table sible on Aer Position (D2) ard (D3) Test (D5) ounds (D6) Hummocks	re require 39) ) c (C2) rial Image 2) c (LRR A)	ery (C9)	

Project Site: <u>NK United</u>		C	City/County	: <u>Poulsbo/Kitsap</u> Sa	mpling Date:	<u>10-19-2</u>	<u>23</u>
Applicant/Owner: Raydient				State: <u>WA</u> Sa	mpling Point:	<u>TP 26</u>	
Investigator(s): J. Bartlett, M. Mill				Section, Township, Range:	S 31 T 27 N R 2 E	WM	
Landform (hillslope, terrace, etc.): Hillslope		Local reli	elief (concav	re, convex, none): <u>convex</u>	Slope	(%): <u>5</u>	
Subregion (LRR): MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name: Poulsbo gravelly sandy loam,	615% slopes	i		NWI classific	ation: <u>None</u>		
Are climatic / hydrologic conditions on the site typical fo	r this time of y	ear? Yes	$\boxtimes$	No 🔲 (If no, explain in Re	emarks.)		
Are Vegetation □, Soil □, or Hydrology	☐, signific	antly disturbed?	Are "No	ormal Circumstances" present?	Yes	⊠ No	
Are Vegetation □, Soil □, or Hydrology	☐, natural	y problematic?	(If need	ded, explain any answers in Rema	ks.)		
SUMMARY OF FINDINGS - Attach site map s	howing san	pling point loc	cations, ti	ransects, important features	, etc.		
Hydrophytic Vegetation Present?	Yes 🗆	No ⊠		· ·	•		
Hydric Soil Present?	Yes 🗆		the Sample		Yes	□ No	o ⊠
Wetland Hydrology Present?	Yes 🗆	No ⊠   With	thin a Wetla	and?		_	_
· · · · · · · · · · · · · · · · · · ·			) d D d b		:4- :- !		-1:-4-
Remarks: North Kitsap United (NK United) is located three segments, most of which are either c						as divide	ed into
					<b>,</b>		
VEGETATION – Use scientific names of plants	Absolute	Dominant In	ndicator				
Tree Stratum (Plot size: 30' diameter)	% Cover		Status	Dominance Test Worksheet:			
1. <u>Pseudotsuga menziesii</u>	20		ACU	Number of Dominant Species	0		(4)
2				That Are OBL, FACW, or FAC:	<u>0</u>		(A)
3				Total Number of Dominant	_		<i>(</i> = )
4				Species Across All Strata:	<u>3</u>		(B)
50% = <u>10</u> , 20% = <u>4</u>	20	= Total Cover		Percent of Dominant Species			
Sapling/Shrub Stratum (Plot size: 20' diameter)				That Are OBL, FACW, or FAC:	<u>0</u>		(A/B)
1. Vaccinium ovatum	<u>10</u>	<u>yes</u> <u>FA</u>	ACU	Prevalence Index worksheet:			
2	_	<u></u>		Total % Cover of:	Multipl	v bv:	
3				OBL species	x1 =		
4.				FACW species	x2 =		
5.				FAC species	x3 =	-	
	10			· ——			
50% = <u>5</u> , 20% = <u>2</u>	<u>10</u>	= Total Cover		FACU species	x4 =		
Herb Stratum (Plot size: 10' diameter)				UPL species	x5 =		
1. Polystichum munitum	<u>5</u>	<u>yes</u> <u>F</u>	ACU	Column Totals:(A	)		_ (B)
2				Prevalence Inc	lex = B/A =		
3				Hydrophytic Vegetation Indicate	ors:		
4	_			☐ 1 – Rapid Test for Hydrophy	tic Vegetation		
5				☐ 2 - Dominance Test is >50%	b		
6				☐ 3 - Prevalence Index is ≤3.0	1		
7				4 - Morphological Adaptation	ns¹ (Provide suppor	tina	
8.				data in Remarks or on a		9	
9.				5 - Wetland Non-Vascular P	lants <sup>1</sup>		
10.				□ Problematic Hydrophytic Ve	actation1 (Evaloin)		
				Froblematic Hydrophytic ve	getation (Explain)		
11		- Total Cover		<sup>1</sup> Indicators of hydric soil and wetla	ina nyarology must		
50% = <u>2.5</u> , 20% = <u>1</u>	 <u>5</u>	= Total Cover		<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or pr			
50% = <u>2.5</u> , 20% = <u>1</u> <u>Woody Vine Stratum</u> (Plot size:)	<u> </u>	= Total Cover					
50% = <u>2.5</u> , 20% = <u>1</u> <u>Woody Vine Stratum (</u> Plot size:)  1	<u>5</u>	= Total Cover	_	be present, unless disturbed or pr			
50% = <u>2.5</u> , 20% = <u>1</u> <u>Woody Vine Stratum (Plot size:)</u> 1  2	<u>5</u>		_ _ _			No	
50% = <u>2.5</u> , 20% = <u>1</u> <u>Woody Vine Stratum (</u> Plot size:)  1	<u>5</u>	= Total Cover	_ _ _	be present, unless disturbed or pr	oblematic.		
50% = <u>2.5</u> , 20% = <u>1</u> <u>Woody Vine Stratum (Plot size:)</u> 1  2	<u>5</u>			be present, unless disturbed or pr Hydrophytic Vegetation Yes	oblematic.		⊠

SOIL Sampling Point: TP 26 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Texture Remarks 7.5YR 2.5/3 0-16 100 sandy loam <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

	s 🗆	5 No	
Slo Datum: None marks.) Yes ss.)  etc.  Yes e site is large so service road.	s 🗆	No No	
Datum: None marks.) Yes ss.)  etc. Yes e site is large so service road.	s 🗆	No No	
e site is large so service road.	s 🗵	No No	
resident is large so service road.	s 🗵	No	
Yes  etc.  Yes  e site is large so service road.	s 🗆	No	
etc.  Yes e site is large so service road.	s 🗆	No	⊠
etc.  Yes e site is large so service road.			
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service road.	o was di		into
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			(4)
<u>4</u>			(A)
<u>4</u>			
			(B)
<u>0</u>			(A/B)
Mil	ıltiply by:		
<u>wu</u> x1 :		•	
x2 :		_	
x3 :			
x4 :			
x5 :	= _		
	_		(B)
ex = B/A =			
rs:			
ic Vegetation			
etation¹ (Explai	in)		
ad bydrology m	ujet		
	ust		
	NI.	_	⋈
	N	,	
s la g	<sup>1</sup> ns <sup>1</sup> (Provide sup separate sheet) lants <sup>1</sup> getation <sup>1</sup> (Expla	1 ns¹ (Provide supporting separate sheet) lants¹ getation¹ (Explain) and hydrology must oblematic.	1 ns¹ (Provide supporting separate sheet) lants¹ getation¹ (Explain) and hydrology must oblematic.

9-2 10YR 2/1 100	Depth	Matrix		0-1/	Redox Fea			Down do
2.7		<u> </u>	400	Color (mo	oist) %	Type <sup>1</sup> Loc <sup>2</sup>		<del>_</del>
February   Telephone   Telep								<del></del>
pe: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.    *Location: PL=Pore Lining, M=Matrix, RC=Root Channel drifts Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)    Indicators for Problematic Hydric Soils*:    Indicators (FP)	· · · · · · · · · · · · · · · · · · ·				· —	<del></del>		
Histosol (Arn)   Sandy Redox (SS)   2 cm Muck (A10)   Camera Material (TF2)   Histosol (Arn)   Camera Material (TF2)   Camera	<u>1-10</u> <u>1.011</u>	<del>_ 1/1</del>	100				Sandy	<u></u>
Histosol (Art)   Sandy Redox (SS)   2 cm Muck (A10)   Cherk (A10)   Sandy Redox (SS)   2 cm Muck (A10)   Cherk (A11)   Cherk (A1								<del>-</del>
Histosol (Arn)   Sandy Redox (SS)   2 cm Muck (A10)   Camera Material (TF2)   Histosol (Arn)   Camera Material (TF2)   Camera					<u></u>			
Histosol (A1)   Sandy Redox (S5)   2 cm Muck (A10)   Cherk (A110)   Cherk					<u> </u>			<u> </u>
Histosol (A1)   Sandy Redox (S5)   2 cm Muck (A10)   Camera Material (TF2)   C					<u> </u>			<u> </u>
Histosol (A1)	pe: C= Concentration	, D=Depletic	on, RM=R	Reduced Mat	rix, CS=Covered or C	oated Sand Grains.	<sup>2</sup> Location: Pl	_=Pore Lining, M=Matrix, RC=Root Channel
Bitack Epipedon (A2)	dric Soil Indicators:	(Applicable	to all LR	≀Rs, unless	otherwise noted.)		Ind	licators for Problematic Hydric Soils <sup>3</sup> :
Black Histic (A3)	Histosol (A1)				Sandy Redox (S5)			2 cm Muck (A10)
Hydrogen Suiffide (A4)	Histic Epipedon (A	2)			Stripped Matrix (S6	5)		Red Parent Material (TF2)
Depleted Below Dark Surface (A11)	Black Histic (A3)				Loamy Mucky Mine	eral (F1) (except MLRA	(1)	Very Shallow Dark Surface (TF12)
Thick Dark Surface (A12)	Hydrogen Sulfide	A4)						Other (Explain in Remarks)
Sandy Mucky Mineral (S1)	-		(A11)			•		
Sandy Gleyed Matrix (S4)	Thick Dark Surfac	∍ (A12)				• •	31	
Strictive Layer (if present):    pth (inches):	-				·	• •		
Apply the content of the hydric soil indicators because of the high matrix colors.    ROLOGY   Secondary Indicators		. ,			Redox Depressions	s (F8)		
And (inches):	•	esent):						
ROLOGY    Company   Compan	·	_						
ROLOGY  Island Hydrology Indicators:  anary Indicators (minimum of one required; check all that apply)  Surface Water (A1)   Water-Stained Leaves (B9)   Water-Stained Leaves (B9)  High Water Table (A2)   (except MLRA 1, 2, 4A, and 4B)   Office (MLRA 1, 2, 4A, and 4B)    Water Marks (B1)   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 (C9)    Drift Deposits (B3)   Oxidized Rhizospheres along Living Roots (C3)   Geomorphic Position (D2)    Algal Mat or Crust (B4)   Presence of Reduced Iron (C4)   Shallow Aquitard (D3)    Iron Deposits (B5)   Recent Iron Reduction in Tilled Soils (C6)   FAC-Neutral Test (D5)    Surface Soil Cracks (B6)   Stunted or Stresses 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)    d Observations:  face Water Present?   Yes   No   Depth (inches):   Wetland Hydrology Present?   Yes   No   Depth (inches):   Wetland Hydrology Present?   Yes   No   No   Depth (inches):   No								
Surface Water (A1)		rofile meets I	none of th	ne hydric soi	l indicators because c			
Surface Water (A1)		rofile meets ı	none of th	ne hydric soi	l indicators because c			
High Water Table (A2)	DROLOGY etland Hydrology Ind	icators:		,				
Saturation (A3)	marks: This soil p	icators:		,				ondary Indicators (2 or more required)
Water Marks (B1)	PROLOGY stland Hydrology Incomery Indicators (mini	icators: num of one r		check all tha	at apply)	of the high matrix colors	Seco	
Sediment Deposits (B2)	PROLOGY tland Hydrology Indicators (mini	icators: num of one r		check all tha	at apply) Water-Stained Leav	of the high matrix colors	Seco	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Drift Deposits (B3)	ROLOGY tland Hydrology Indicators (mini Surface Water (A High Water Table Saturation (A3)	icators: num of one r 1) (A2)		check all tha	at apply)  Water-Stained Leav  (except MLRA 1, 2  Salt Crust (B11)	of the high matrix colors ves (B9)	Seco	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Algal Mat or Crust (B4)	PROLOGY tland Hydrology Indi mary Indicators (mini Surface Water (A High Water Table Saturation (A3)	icators: num of one r 1) (A2)		check all tha	at apply)  Water-Stained Leav  (except MLRA 1, 2  Salt Crust (B11)	of the high matrix colors ves (B9)	Seco	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Iron Deposits (B5)	PROLOGY Itland Hydrology Indigenous (Minimary Indicators (Minimary Indic	icators: num of one r 1) (A2)		check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C	ves (B9) 2, 4A, and 4B) es (B13) Odor (C1)	Second Control	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Surface Soil Cracks (B6)	PROLOGY  Itland Hydrology Indicators (mini Surface Water (A High Water Table Saturation (A3)  Water Marks (B1 Sediment Deposit Drift Deposits (B3)	icators: num of one r 1) (A2) s (B2)		check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11)  Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe	ves (B9) 2, 4A, and 4B) es (B13) Odor (C1) eres along Living Roots	Second Control	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)
Inundation Visible on Aerial Imagery (B7)	DROLOGY  Internation of the state of the sta	icators: num of one r 1) (A2) s (B2) ) t (B4)		check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc	ves (B9) 2, 4A, and 4B) es (B13) Odor (C1) eres along Living Roots ed Iron (C4)	Second	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)
Sparsely Vegetated Concave Surface (B8)  #Id Observations:  rface Water Present? Yes  No  Depth (inches):  ster Table Present? Yes  No  Depth (inches):  turation Present? Yes  No  Depth (inches):  #Identify Table Present? Yes  No  Depth (inches):  #Identify Table Present? Yes  No  No  No  No  No  No  No  No  No  N	DROLOGY etland Hydrology Inc mary Indicators (mini Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B8	icators: num of one r 1) (A2) s (B2) ) t (B4)		check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc	ves (B9) 2, 4A, and 4B) es (B13) Odor (C1) eres along Living Roots ed Iron (C4)	Second	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)
Ald Observations:  Inface Water Present? Yes  No  Depth (inches):  Inter Table Present? Yes  No  Depth (inches):  Ituration Present? Yes  No  Depth (inches):  Ituration Present? Yes  No  Depth (inches):  Wetland Hydrology Present? Yes  No	DROLOGY etland Hydrology Incomary Indicators (minimary Indicators (minimary Indicators (Marks (B1 Saturation (A3) Water Marks (B1 Sediment Deposits (B3 Algal Mat or Cruster Iron Deposits (B5 Surface Soil Cracks)	icators: num of one r 1) (A2) s (B2) ) t (B4) ) ks (B6)	required; (	check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses	ves (B9)  2, 4A, and 4B)  es (B13)  Odor (C1)  eres along Living Roots  ded Iron (C4)  tion in Tilled Soils (C6)  s Plants (D1) (LRR A)	Seccion	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)
rface Water Present? Yes No Depth (inches): ter Table Present? Yes No Depth (inches): turation Present? Yes No Depth (inches): turation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	DROLOGY  Interpretation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Cruster (B4)  Surface Soil Cracter (B4)	icators: num of one r 1) (A2) s (B2) ) t (B4) ) ks (B6) on Aerial Im	required;	check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses	ves (B9)  2, 4A, and 4B)  es (B13)  Odor (C1)  eres along Living Roots  ded Iron (C4)  tion in Tilled Soils (C6)  s Plants (D1) (LRR A)	Seccion	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)
ter Table Present? Yes No Depth (inches): turation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	DROLOGY  Intland Hydrology Indicators (minimary Indicators (minimary Indicators (minimary Indicators (minimary Indicators (minimary Indicators (Mater Marks (Mater Mater Mate	icators: num of one r 1) (A2) s (B2) ) t (B4) ) ks (B6) on Aerial Im	required;	check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses	ves (B9)  2, 4A, and 4B)  es (B13)  Odor (C1)  eres along Living Roots  ded Iron (C4)  tion in Tilled Soils (C6)  s Plants (D1) (LRR A)	Seccion	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)
turation Present? Yes \( \square\) No \( \text{N}\) Depth (inches): \( \text{Wetland Hydrology Present?} \) Yes \( \square\) No	PROLOGY Intland Hydrology Interpretation (A3) Water Marks (B1) Sediment Deposit (B3) Algal Mat or Cruster Iron Deposits (B5) Surface Soil Cracter Inundation Visible Sparsely Vegetat	icators: num of one r 1) (A2) s (B2) ) t (B4) ) ks (B6) on Aerial Imed Concave S	required; of the second required; of the second required; of the second required required required required; of the second required req	check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Stunted or Stresses Other (Explain in Re	ves (B9) 2, 4A, and 4B) es (B13) Odor (C1) eres along Living Roots ed Iron (C4) tion in Tilled Soils (C6) s Plants (D1) (LRR A) emarks)	Seccion	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)
cludes capillary fringe)  Yes   No   Depth (inches):   Wetland nydrology Present? Yes   No	DROLOGY  Etland Hydrology Indicators (minited statement Deposits (B3) Algal Mat or Crust Iron Deposits (B3) Surface Soil Cract Inundation Visible Sparsely Vegetate (B4) Seld Observations:	icators: num of one r 1) (A2) s (B2) ) t (B4) on Aerial Imed Concave S	required; of the second reading to the secon	check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses Other (Explain in Reduct)	ves (B9)  2, 4A, and 4B)  es (B13)  Odor (C1)  eres along Living Roots  ded Iron (C4)  tion in Tilled Soils (C6)  s Plants (D1) (LRR A)  emarks)	Seccion	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)
scribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	DROLOGY  Itland Hydrology Indigenerate Marks: This soil properties of the properties	icators: num of one r 1) (A2) s (B2) ) t (B4) on Aerial Imed Concave S	required; of the second reading to the secon	check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses Other (Explain in Reduct)	ves (B9)  2, 4A, and 4B)  es (B13)  Odor (C1)  eres along Living Roots  ded Iron (C4)  tion in Tilled Soils (C6)  s Plants (D1) (LRR A)  emarks)	Seccion	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)
	PROLOGY Etland Hydrology Indicators (minital Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B5 Algal Mat or Crust Iron Deposits (B5 Surface Soil Cract Inundation Visible Sparsely Vegetat (State Water Present Stater Table Present?) Stater Table Present?	icators: num of one r 1) (A2) s (B2) ) s (B4) on Aerial Imed Concave s Yes	required; dangery (B'Surface (I	check all tha	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduc Recent Iron Reduct Stunted or Stresses Other (Explain in Reduct Depth (inches)	ves (B9) 2, 4A, and 4B) es (B13) Odor (C1) eres along Living Roots ed Iron (C4) tion in Tilled Soils (C6) s Plants (D1) (LRR A) emarks) :	Second	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)
	PROLOGY Etland Hydrology Inc mary Indicators (mini Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B3 Algal Mat or Crus Iron Deposits (B3 Surface Soil Crac Inundation Visible Sparsely Vegetat etla Observations: rface Water Present? turation Present? cludes capillary fringe	icators: num of one r 1) (A2) s (B2) ) t (B4) ) on Aerial Imed Concave s Yes Yes Yes	nagery (B'	check all that	at apply)  Water-Stained Leav (except MLRA 1, 2 Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide C Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stresses Other (Explain in Reduct) Depth (inches) Depth (inches)	ves (B9)  2, 4A, and 4B)  es (B13)  Odor (C1)  eres along Living Roots  ed Iron (C4)  tion in Tilled Soils (C6)  s Plants (D1) (LRR A)  emarks)  :	Second Se	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>N</u>	NK United			City/Count	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	<u>10-19-2</u>	<u>3</u>
Applicant/Owner: <u>F</u>	Raydient				State: WA	Sampling Point:	TP 28	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Ra	ange: <u>S 31 T 27 N R 2 B</u>	<u>EWM</u>	
Landform (hillslope, terra	ace, etc.): <u>Hillslope</u>		Local	relief (conca	ave, convex, none): convex	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum:		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI cla	assification: None		
Are climatic / hydrologic	conditions on the site typical for	this time of y	ear? Ye	s 🛛	No [ (If no, explain	n in Remarks.)		
Are Vegetation □,	Soil □, or Hydrology [	☐, significa	ntly disturbed?	Are "N	Normal Circumstances" preser	nt? Yes	⊠ No	
Are Vegetation □,	Soil □, or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in f	Remarks.)		
SUMMARY OF FIND	DINGS – Attach site map sh	owing sam	pling point l	ocations,	transects, important feat	tures, etc.		
Hydrophytic Vegetation I	•	Yes 🗆	No 🛛	•				
Hydric Soil Present?		Yes 🗆		s the Samp		Yes	□ No	o ⊠
Wetland Hydrology Pres	sent?	Yes 🗆	No 🛛	within a Wet	lland?		_	_
, 3,				I D I D I	hataa Baalaha aad Kiasat			-1 :4 -
	p United (NK United) is located a ents, most of which are either cle							a into
	one, most or milen are enaler ele			. 20 10 10 0010		rae e. are contact cog		
VEGETATION - Use	scientific names of plants	A I I 4 -	Dit	1				
Tree Stratum (Plot size	: 30' diameter)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Workshe	et:		
1. Alnus rubra		<u>15</u>	yes	FAC	Number of Dominant Specie	es o		(4)
2					That Are OBL, FACW, or FA			(A)
3					Total Number of Dominant			
4					Species Across All Strata:	<u>4</u>		(B)
50% = <u>7.5</u> , 20% = <u>3</u>		15	= Total Cover	r	Percent of Dominant Specie	• • • • • • • • • • • • • • • • • • • •		
	(Plot size: 20' diameter)	_			That Are OBL, FACW, or FA			(A/B)
Rubus armeniacus	- '	<u>50</u>	<u>yes</u>	FAC	Prevalence Index workshe	et:		
Vaccinium ovatum	•	<u>5</u>	no no	FACU	Total % Cover		oly by:	
3		<u>~</u>	<u></u>	17.00	OBL species	x1 =	., ., .	
4.					FACW species	x2 =		
5.					FAC species	x3 =		
			= Total Cover			x4 =		
50% = <u>27.5,</u> 20% = <u>11</u>		<u>55</u>	- Total Covel		FACU species	<u> </u>		
Herb Stratum (Plot size					UPL species	x5 =		
1. Polystichum munitu	<u>um</u>	<u>10</u>	<u>yes</u>	<u>FACU</u>	Column Totals:	(A)		_ (B)
2. Rubus ursinus		<u>10</u>	<u>yes</u>	<u>FACU</u>	Prevalen	ice Index = B/A =		
3					Hydrophytic Vegetation In	dicators:		
4		_			☐ 1 – Rapid Test for Hyd	Irophytic Vegetation		
5					☐ 2 - Dominance Test is	>50%		
6					☐ 3 - Prevalence Index i	s <u>&lt;</u> 3.0 <sup>1</sup>		
7					4 - Morphological Ada	ptations¹ (Provide suppo	ortina	
8						on a separate sheet)	9	
9.					☐ 5 - Wetland Non-Vasc	ular Plants <sup>1</sup>		
10.		·			_	rtic Vegetation¹ (Explain)		
11.					Problematic Hydrophly	tic vegetation (Explain)		
50% = <u>10</u> , 20% = <u>4</u>		20	= Total Cover		<sup>1</sup> Indicators of hydric soil and	wetland hydrology mus	t	
Woody Vine Stratum (F	Plot size:	<u>20</u>	- Total Cove		be present, unless disturbed	d or problematic.		
	-iot size)							
1					Hydrophytic			
2					Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% =			= Total Cover	r	Present?			
% Bare Ground in Herb	ວ Stratum <u>80</u>							
Remarks: Th	he hydrophytic vegetation criteria	is not met be	ecause there is	less than 50	0% dominance by FAC plant s	pecies.		

Depth	Matrix				Redox Features	3						
nches)	Color (moist)	%	Color	moist)		ype <sup>1</sup> Loc <sup>2</sup>	 Texture	9	F	Remarks	<b>;</b>	
0-6	10YR 3/6	100					silt loa					
6-16	10YR 4/4	100		_			sa si					
				<u></u>								
				_		<u> </u>						
			_	_								
				_								
			_	_			<u> </u>					
			_	_	<u> </u>							
pe: C= C	oncentration, D=Deple	tion, RM=	Reduced M	atrix, CS=	Covered or Coated	I Sand Grains.	<sup>2</sup> Location: PL	.=Pore Lining, N	ທ=Matrix, R	RC=Root	Channel	I
dric Soil	Indicators: (Applicab	le to all L	.RRs, unle	s otherwi	se noted.)		Ind	icators for Pro	blematic F	lydric S	oils³:	
Histos				Sand	y Redox (S5)			2 cm Muck	(A10)			
	Epipedon (A2)				ed Matrix (S6)			Red Parent		•		
	Histic (A3)			Loam	y Mucky Mineral (F	1) (except MLRA	•	Very Shallo			-12)	
-	gen Sulfide (A4)				y Gleyed Matrix (F2	2)		Other (Expl	lain in Rem	arks)		
-	ed Below Dark Surfac	e (A11)		-	eted Matrix (F3)							
	Dark Surface (A12)				x Dark Surface (F6)		31ma	liantoro of budre	anhutia uan	atation a	an d	
-	Mucky Mineral (S1)			-	eted Dark Surface (F	•		licators of hydro wetland hydrolo				
	Gleyed Matrix (S4)			Redo	x Depressions (F8)		<u> </u>	unless disturbe	d or probler	matic.		
	Layer (if present):											
e: oth (inche	<del></del>						ils Present?		Yes		No	
emarks:	This soil profile meet	s none of	the hydric :	soil indicat	ors because of the l	high matrix colors.						
	· 	is none of	the hydric	soil indicat	ors because of the l	high matrix colors.						
PROLOG	· 	is none of	the hydric:	soil indicat	ors because of the l	high matrix colors.						
PROLOG	e <b>Y</b>				ors because of the l	high matrix colors.		ndary Indicator	s (2 or more	e require	ed)	
PROLOG tland Hy mary Indic	iY drology Indicators:			that apply)	ors because of the l			ndary Indicator Water-Stained	•	-	ed)	
PROLOG tland Hy mary India Surfac	iY drology Indicators: cators (minimum of on		l; check all	hat apply)  Water		39)	Seco	-	Leaves (B	9)	ed)	
PROLOG tland Hy mary Indio Surfac High \	drology Indicators: cators (minimum of one		l; check all	hat apply) ] Water (exce	r-Stained Leaves (E	39)	Seco	Water-Stained	Leaves (B	9)	ed)	
PROLOG tland Hy mary Indio Surfac High V	drology Indicators: cators (minimum of one ce Water (A1) Water Table (A2)		l; check all	hat apply)  Water (exce	r-Stained Leaves (E p <b>t MLRA 1, 2, 4A,</b>	39) and 4B)	Seco	Water-Stained	Leaves (B: <b>A, and 4B)</b> erns (B10)	9)	ed)	
ROLOG tland Hyd mary Indid Surfac High V Satura Water	drology Indicators: cators (minimum of one ce Water (A1) Water Table (A2) ation (A3)		I; check all	that apply)    Water   (exce   Salt C	r-Stained Leaves (E ept MLRA 1, 2, 4A, Crust (B11)	39) and <b>4B)</b>	Seco	Water-Stained (MLRA 1, 2, 4) Drainage Patte	Leaves (Bindary) A, and 4B) erns (B10) /ater Table	9) (C2)		
PROLOG Itland Hy mary India Surfac High N Satura Water Sedim	drology Indicators: cators (minimum of one water (A1) Water Table (A2) ation (A3)		l; check all	that apply)    Water   (exce   Salt (	r-Stained Leaves (E pt MLRA 1, 2, 4A, Crust (B11) tic Invertebrates (B	39) and 4B) 13) C1)	Seco	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W	A, and 4B) erns (B10) ater Table	9) (C2) al Image		
PROLOG tland Hymary Indice Surface High V Satura Water Sedim Drift E	drology Indicators: cators (minimum of one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2)		l; check all	that apply)  Water (exce Salt C Aquat Hydro	r-Stained Leaves (E  pt MLRA 1, 2, 4A,  Crust (B11)  tic Invertebrates (B-  ogen Sulfide Odor (6	and 4B)  13) C1) along Living Roots	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Visi	Leaves (Banda 4B) A, and 4B) erns (B10) dater Table dible on Aeri dosition (D2)	9) (C2) al Image		
PROLOG tland Hymary Indio Surfac High V Satura Water Sedim Drift D	drology Indicators: cators (minimum of one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2)		I; check all	chat apply)  Water (exce Salt C Aquat Hydro Oxidiz Prese	r-Stained Leaves (E  pt MLRA 1, 2, 4A,  Crust (B11)  tic Invertebrates (B <sup>2</sup> pgen Sulfide Odor (G  zed Rhizospheres a	and 4B)  13) C1) along Living Roots on (C4)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Visi Geomorphic P	A, and 4B) erns (B10) fater Table tible on Aeri rosition (D2) ard (D3)	9) (C2) al Image		
PROLOG tland Hymary India Surface High N Satura Water Sedim Drift D Algal I	drology Indicators: cators (minimum of one ce Water (A1)  Nater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3)  Mat or Crust (B4)		I; check all	chat apply)  Water (exce  Salt C  Aquat  Hydro  Oxidia  Prese  Recei	r-Stained Leaves (E pt MLRA 1, 2, 4A, Crust (B11) tic Invertebrates (B ogen Sulfide Odor (G og	and 4B)  13) C1) along Living Roots on (C4) in Tilled Soils (C6)	Seco	Water-Stained (MLRA 1, 2, 4. Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquite	A, and 4B) erns (B10) /ater Table ible on Aeri /osition (D2) ard (D3) est (D5)	9) (C2) al Image	ery (C9)	
PROLOG Itland Hydramary India Surface High N Satura Water Sedim Drift D Algal I Iron D Surface	drology Indicators: cators (minimum of one ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)	e required	l; check all	that apply)    Water   (exce   Salt C   Aquat   Hydro   Oxidiz   Prese   Recei	r-Stained Leaves (E  pt MLRA 1, 2, 4A,  Crust (B11)  tic Invertebrates (B-  pgen Sulfide Odor (o  zed Rhizospheres a  ence of Reduced Iro  nt Iron Reduction in	and 4B)  13) C1) along Living Roots on (C4) a Tilled Soils (C6) ats (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4. Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T	A, and 4B) erns (B10) /ater Table ible on Aeri rosition (D2) ard (D3) rest (D5) bunds (D6)	9) (C2) al Image )	ery (C9)	
DROLOG etland Hyd mary India Surfac High N Satura Water Sedim Drift D Algal I Iron D Surfac Inunda	drology Indicators: cators (minimum of one water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) De Soil Cracks (B6)	e required	l; check all	that apply)    Water   (exce   Salt C   Aquat   Hydro   Oxidiz   Prese   Recei	r-Stained Leaves (E  pt MLRA 1, 2, 4A,  Crust (B11)  tic Invertebrates (Br  gen Sulfide Odor (control of the control of Reduced Iron  nt Iron Reduction in  ed or Stresses Plan	and 4B)  13) C1) along Living Roots on (C4) a Tilled Soils (C6) ats (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	A, and 4B) erns (B10) /ater Table ible on Aeri rosition (D2) ard (D3) rest (D5) bunds (D6)	9) (C2) al Image )	ery (C9)	
PROLOG etland Hy- mary Indio Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Spars	drology Indicators: cators (minimum of one ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Des Soil Cracks (B6) ation Visible on Aerial ely Vegetated Concav	e required	l; check all	that apply)    Water   (exce   Salt C   Aquat   Hydro   Oxidiz   Prese   Recei	r-Stained Leaves (E  pt MLRA 1, 2, 4A,  Crust (B11)  tic Invertebrates (Br  gen Sulfide Odor (control of the control of Reduced Iron  nt Iron Reduction in  ed or Stresses Plan	and 4B)  13) C1) along Living Roots on (C4) a Tilled Soils (C6) ats (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	A, and 4B) erns (B10) /ater Table ible on Aeri rosition (D2) ard (D3) rest (D5) bunds (D6)	9) (C2) al Image )	ery (C9)	
PROLOG etland Hymary Indio Surface High V Satura Water Sedim Drift D Algal I Iron D Surface Inund: Spars	drology Indicators: cators (minimum of one ce Water (A1) Nater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Des Soil Cracks (B6) ation Visible on Aerial ely Vegetated Concav	e required Imagery (I	I; check all	chat apply)  Water (exce  Salt C  Aquat  Hydro  Prese  Recei  Stunte	r-Stained Leaves (E  pt MLRA 1, 2, 4A,  Crust (B11)  tic Invertebrates (Br  gen Sulfide Odor (control of the control of Reduced Iron  nt Iron Reduction in  ed or Stresses Plan	and 4B)  13) C1) along Living Roots on (C4) a Tilled Soils (C6) ats (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	A, and 4B) erns (B10) /ater Table ible on Aeri rosition (D2) ard (D3) rest (D5) bunds (D6)	9) (C2) al Image )	ery (C9)	
PROLOG  Itland Hye mary India  Surface High V Satura  Water Sedim Drift D Algal I Iron D Surface Inunda Spars  Id Obser  face Wat	drology Indicators: cators (minimum of one 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 ely Vegetated Concav vations: er Present? Yes	e required	i; check all	that apply)  Water (exce Salt C Aquat Hydro Oxidia Prese Recel Stunte Other	r-Stained Leaves (E pt MLRA 1, 2, 4A, Crust (B11) tic Invertebrates (B gen Sulfide Odor (C zed Rhizospheres a ence of Reduced Iro nt Iron Reduction in ed or Stresses Plan (Explain in Remark	and 4B)  13) C1) along Living Roots on (C4) a Tilled Soils (C6) ats (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	A, and 4B) erns (B10) /ater Table ible on Aeri rosition (D2) ard (D3) rest (D5) bunds (D6)	9) (C2) al Image )	ery (C9)	
PROLOG  Itland Hye mary Indie Surface High V Satura Water Sedim Drift D Surface Iron D Surface Inunda Spars Id Obser rface Water Table	drology Indicators: cators (minimum of one 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 Deposits (B3) Mater Table (B4) Deposits (B4) Deposits (B5) De Soil Cracks (B6) Deteror Cracks (B6) De	e required	I; check all	that apply)  Water (exce) Salt C Aquat Hydro Prese Stunte Other	r-Stained Leaves (E  pt MLRA 1, 2, 4A, Crust (B11) tic Invertebrates (B-  pgen Sulfide Odor (i  zed Rhizospheres a  ence of Reduced Iro  nt Iron Reduction in ed or Stresses Plan (Explain in Remark	and 4B)  13) C1) along Living Roots on (C4) a Tilled Soils (C6) ats (D1) (LRR A)	(C3)	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (Ba A, and 4B) erns (B10) fater Table fible on Aeri Position (D2) ard (D3) rest (D5) bunds (D6) dummocks (	9) (C2) al Image )	ery (C9)	0
PROLOG  Stland Hye mary India  Surface High N Satura  Water Sedim Drift D Algal I Iron D Surface Inunda Spars  Id Obser rface Wat ater Table turation P	drology Indicators: cators (minimum of once Water (A1) Vater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) meposits (B5) me Soil Cracks (B6) ation Visible on Aerial mely Vegetated Concavivations: mer Present?  Present?  Yes	e required Imagery (I	l; check all	chat apply)    Water   (exce   Salt C   Aquat   Hydro   Oxidiz   Prese   Recer   Stunto   Other	r-Stained Leaves (E  pt MLRA 1, 2, 4A,  Crust (B11)  tic Invertebrates (B-  pgen Sulfide Odor (i  zed Rhizospheres a  ence of Reduced Iro  nt Iron Reduction in  ed or Stresses Plan  (Explain in Remark  Depth (inches):  Depth (inches):	and 4B)  13) C1) along Living Roots on (C4) in Tilled Soils (C6) ints (D1) (LRR A) iks)	Seco	Water-Stained (MLRA 1, 2, 4. Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (Ba A, and 4B) erns (B10) fater Table fible on Aeri Position (D2) ard (D3) rest (D5) bunds (D6) dummocks (	9) (C2) al Image ) (LRR A) (D7)	ery (C9)	0
Section Polludes capitalism Polludes capitalis	drology Indicators: cators (minimum of one be 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 mely Vegetated Concavivations: mer Present?  Present?  Yes Present?  Yes Present?  Yes Present?  Yes	e required Imagery (I	l; check all	chat apply)    Water   (exce   Salt C   Aquat   Hydro   Oxidiz   Prese   Recer   Stunto   Other	r-Stained Leaves (E  pt MLRA 1, 2, 4A,  Crust (B11)  tic Invertebrates (B-  pgen Sulfide Odor (i  zed Rhizospheres a  ence of Reduced Iro  nt Iron Reduction in  ed or Stresses Plan  (Explain in Remark  Depth (inches):  Depth (inches):	and 4B)  13) C1) along Living Roots on (C4) in Tilled Soils (C6) ints (D1) (LRR A) iks)	Seco	Water-Stained (MLRA 1, 2, 4. Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (Ba A, and 4B) erns (B10) fater Table fible on Aeri Position (D2) ard (D3) rest (D5) bunds (D6) dummocks (	9) (C2) al Image ) (LRR A) (D7)	ery (C9)	o

Project Site:	NK United						City/Coun	ty: <u>Poulsbo/Kitsa</u>	<u>p</u>	Sampling	Date:	<u>10-19</u>	<u> 1-23</u>	
Applicant/Owner:	Raydient							Sta	ate: <u>WA</u>	Sampling	Point:	TP 29	9	
Investigator(s):	J. Bartlett, M. N	<u>/lill</u>						Section, To	wnship, Rang	ge: <u>S 31 7</u>	27 N R 2 I	<u>EWM</u>		
Landform (hillslope, te	errace, etc.):	<u>Hillslope</u>				Loca	al relief (conca	ave, convex, none):	convex		Slope	e (%):	<u>5</u>	
Subregion (LRR):	MLRA 2		Lat:		_			Long:			Datum:			
Soil Map Unit Name:	Poulsbo grave	elly sandy loam,	615% sl	lopes					NWI class	sification:	<u>None</u>			
Are climatic / hydrolog	ic conditions on	the site typical fo	or this time	e of ye	ear?	Υ	′es ⊠	No ☐ (If	no, explain ir	n Remarks	.)			
Are Vegetation ☐,	, Soil □,	or Hydrology	□, sig	gnifica	ntly dis	sturbe	d? Are "I	Normal Circumstand	ces" present?		Yes	⊠ I	No	
Are Vegetation ☐,	, Soil □,	or Hydrology	□, na	turally	probl	ematic	? (If ne	eded, explain any a	nswers in Re	marks.)				
SUMMARY OF FIN	IDINGS – Atta	ch site map s	howing	sam	pling	point	t locations,	transects, impo	rtant featui	res, etc.				
Hydrophytic Vegetatio	n Present?		Yes		No	$\boxtimes$								
Hydric Soil Present?			Yes		No	$\boxtimes$	Is the Samp within a We				Yes		No	$\boxtimes$
Wetland Hydrology Pr	resent?		Yes		No	$\boxtimes$								
Remarks: North Kits	sap United (NK L	Jnited) is located	l along Sto	ottlem	eyer R	load ar	nd Bond Road	l between Poulsbo	and Kingston.	The site i	s large so v	vas divid	ded i	nto
three seg	ments, most of w	vhich are either	clear cut o	r fores	sted.	Test P	lot 29 is locate	ed in a low area nex	t to road.					
/EGETATION - Us	e scientific na	ames of plant	s											
Tree Stratum (Plot size	ze: <u>30' diameter</u> )	)	Absolu % Cov		Domi Speci		Indicator <u>Status</u>	Dominance Test	t Worksheet:					
1. Pseudotsuga me	nziesii		10	<u>/CI</u>	yes	163 :	FACU	Number of Domir	ant Species					
2. Alnus rubra			<u>10</u>		ves		FAC	That Are OBL, FA		:	<u>2</u>			(A)
3.							· <u></u>	Total Number of	Dominant					
4.			'	.'			· <u></u>	Species Across A			<u>6</u>			(B)
50% = <u>10</u> , 20% = <u>4</u>			20	.'	= Tot	al Cov	er	Percent of Domir	ant Snecies					
Sapling/Shrub Stratu	m (Plot size: 20'	diameter)						That Are OBL, FA		:	<u>33</u>			(A/B)
1. Cytisus scoparius			<u>25</u>		yes		FACU	Prevalence Inde	x worksheet	:				
Rubus spectabilis	<del>-</del>		10		yes		FAC		I % Cover of:		Multip	oly by:		
3. Vaccinium ovatur	<del>-</del>		10		no		FACU	OBL species			x1 =			
4. Gaultheria shallo			<u>10</u>		no		FACU	FACW species			x2 =			
5	_							FAC species			x3 =			
50% = <u>27.5</u> , 20% = <u>1</u>	1		<u>55</u>		= Tot	al Cov	er	FACU species			x4 =			
Herb Stratum (Plot si		)						UPL species			x5 =			
Polystichum mun		J	<u>15</u>		yes		FACU	·		(A)	,,,		(E	R)
Rubus ursinus	<u>ntarri</u>						FACU	Column Totals:	Prevalence		/A -		('	رد
·			<u>15</u>		<u>yes</u>		· · · · · · · · · · · · · · · · · · ·	Hydrophytic Vo			/A			
3. <u>Pteridium aquilinu</u>	<u>um</u>		<u>5</u>		<u>no</u>		<u>FACU</u>	Hydrophytic Ve	_		atation			
4								1 – Rapid T	nce Test is >		etation			
5														
6			-					☐ 3 - Prevale	nce Index is <	≤3.0¹				
7									logical Adapta Remarks or o			rting		
8								_		-	ie sileet)			
9			-						l Non-Vascula	ar Plants'				
10								☐ Problemation	c Hydrophytic	Vegetatio	n¹ (Explain)			
11								<sup>1</sup> Indicators of hyd	lric soil and w	otland hyd	rology mus	+		
50% = <u>17.5,</u> 20% = <u>7</u>	<u>,</u>		<u>35</u>		= Tot	al Cov	er	be present, unles				·		
Woody Vine Stratum	_(Plot size:	_)												
1														
2			-					Hydrophytic Vegetation	v	'es		No		$\boxtimes$
50% =, 20% =	·		-		= Tot	al Cov	er	Present?		00				
·														
% Bare Ground in He	erb Stratum <u>65</u>													

Depth	Matrix	<			Re	dox Featu	ires							
inches)	Color (moist)	%		Color (mo	oist) g	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	<u> </u>		Remark	s	
0-7	10YR 3/2	100	0		_	_			silt loa	am	_			
<u>7-16</u>	2.5YR 5/3	<u>85</u>	<u>5</u>	10YR 4/	<u>/6</u> <u>1</u>	<u>5</u>	<u>C</u>	<u>M</u>	sandy I	oam				
		_	_		. <u> </u>	_					_			
		_	_		· —						_			
			_		. <u>—</u>						<u> </u>			
			_											
			_		. <u></u>	<del></del>				_	<u> </u>			
vne: C= Co	ncentration, D=De	enletion	— RM=Red	uced Mat	rix CS=Cover	ed or Coa	ted Sand	Grains	Location: PI	=Pore Linin	 g, M=Matrix,	RC=Roo	t Channel	
-	ndicators: (Appli	-									Problematic			
Histoso					Sandy Red	-					ıck (A10)	,		
Histic E	pipedon (A2)				Stripped Ma	atrix (S6)				Red Par	rent Material	(TF2)		
Black F	listic (A3)				Loamy Muc	ky Minera	I (F1) <b>(ex</b>	cept MLRA 1		Very Sh	allow Dark S	urface (T	F12)	
Hydrog	en Sulfide (A4)				Loamy Gley	ed Matrix	(F2)			Other (E	xplain in Rer	marks)		
Deplete	ed Below Dark Sur	face (A1	1)		Depleted M	atrix (F3)								
Thick D	ark Surface (A12)	)			Redox Dark	Surface (	(F6)							
Sandy	Mucky Mineral (S1	1)			Depleted D	ark Surfac	e (F7)				ydrophytic ve rology must b			
Sandy	Gleyed Matrix (S4	)			Redox Dep	ressions (I	F8)				rbed or proble		,	
	ayer (if present):													
/pe:											Yes		No	_
1 \								Hydric Soils	Fresenti					
Depth (inches	This soil profile m	neets nor	ne of the I	nydric soii	l indicators be	cause of th	he high m		Fresent					
demarks:	This soil profile m		ne of the h	nydric soi	l indicators be	cause of th	he high m		Fresent					
Remarks:  'DROLOG  Vetland Hyd	This soil profile m	s:				cause of th	he high m						a dì	
Pemarks:  'DROLOG  Vetland Hyd  virimary Indic	This soil profile m  Y  rology Indicators ators (minimum of	s:		eck all tha	at apply)				Seco	-	ators (2 or mc		ed)	
EDROLOG /etland Hyd rimary Indical	Y rology Indicators ators (minimum of	s:			at apply) Water-Stair	ned Leaves	s (B9)	natrix colors.		Water-Stair	ators (2 or mo	B9)	ed)	
DROLOG letland Hyd rimary Indica Surface	Y  Trology Indicators ators (minimum of a Water (A1)  //ater Table (A2)	s:		eck all tha	at apply) Water-Stair (except ML	ned Leaves	s (B9)	natrix colors.	Seco	Water-Stair	ators (2 or mo ned Leaves (I 2 <b>, 4A, and 4</b> E	B9)	ed)	
DROLOG' //etland Hyd rimary Indic.    Surface   High W	Y  rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3)	s:		eck all tha	at apply) Water-Stair <b>(except ML</b> Salt Crust (	ned Leaves <b>RA 1, 2, 4</b> B11)	s (B9) <b>s (</b> B4 <b>, and 4</b>	natrix colors.	Seco	Water-Stair (MLRA 1, 2 Drainage P	ators (2 or mo ned Leaves (i 2, <b>4A, and 4E</b> 'atterns (B10)'	B9) <b>3)</b>	ed)	
DROLOG' //etland Hydrimary Indic.   Surface   High W   Satura   Water	Y  rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1)	s:		eck all tha	at apply)  Water-Stair  (except ML  Salt Crust (  Aquatic Inv	ned Leaves RA 1, 2, 4 B11) ertebrates	s (B9) <b>IA, and 4</b> (B13)	natrix colors.	Seco	Water-Stain (MLRA 1, 2 Drainage P	ators (2 or mo ned Leaves (I <b>2, 4A, and 4E</b> atterns (B10) n Water Table	B9)  B)  c (C2)	·	
DROLOG /etland Hyd rimary Indic.   Surface   High W   Satura   Water   Sedime	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	s:		eck all tha	at apply)  Water-Stair  (except ML  Salt Crust (  Aquatic Invo	ned Leaves RA 1, 2, 4 B11) ertebrates Sulfide Odd	s (B9)  1A, and 4  (B13)  or (C1)	natrix colors.	Seco	Water-Stain (MLRA 1, 2 Drainage P Dry-Season Saturation	ators (2 or mo ned Leaves (I <b>2, 4A, and 4E</b> atterns (B10) n Water Table Visible on Ae	B9)  (B)  (C2)  (rial Imag	·	
DROLOG Vetland Hyd rimary Indica Surfaca High W Satura Water Sedime	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	s:		eck all tha	water-Stair (except ML Salt Crust ( Aquatic Inv Hydrogen S Oxidized RI	ned Leaves RA 1, 2, 4 B11) ertebrates Sulfide Odo nizosphere	s (B9) <b>IA, and 4</b> (B13)  or (C1)  es along L	B)	Seco	Water-Stain (MLRA 1, 2 Drainage P Dry-Season Saturation Geomorphi	ators (2 or moned Leaves (1 2, 4A, and 4E Patterns (B10) In Water Tablo Visible on Ae ic Position (D	B9)  (B)  (C2)  (rial Imag	·	
VDROLOG Vetland Hyd rimary Indication Surface High W Satura Water Sedimed Drift De	This soil profile m  Trology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4)	s:		eck all tha	at apply)  Water-Stair (except ML Salt Crust ( Aquatic Invo Hydrogen S Oxidized RI Presence o	ned Leaves RA 1, 2, 4 B11) ertebrates Sulfide Odo nizosphere f Reduced	s (B9)  IA, and 4  (B13)  or (C1)  es along L  I Iron (C4)	B)  Living Roots (0)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac	ators (2 or mo ned Leaves (I 2, 4A, and 4E Patterns (B10) in Water Table Visible on Ae ic Position (D juitard (D3)	B9)  (B)  (C2)  (rial Imag	·	
VDROLOG Vetland Hyd rimary Indic Surface High W Satura Water Sedime Drift De Algal M	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	s: f one requ		eck all tha	at apply)  Water-Stair (except ML Salt Crust ( Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron	ned Leaves RA 1, 2, 4 B11) ertebrates Sulfide Odo nizosphere f Reduced Reduction	s (B9) <b>IA, and 4</b> (B13)  or (C1)  es along L  I Iron (C4)  n in Tilled	B) Living Roots (C) Soils (C6)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr	ators (2 or moned Leaves (i 2, 4A, and 4E atterns (B10) in Water Table Visible on Ae ic Position (D juitard (D3) al Test (D5)	B9)  (B)  (C2)  (C3)  (C3)  (C4)	ery (C9)	
FDROLOG Fetland Hydrimary Indication Surface High Water Sedime Drift De Algal M	This soil profile m  Trology Indicators ators (minimum of a Water (A1) //ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5)	s: f one requ	uired; che	eck all tha	at apply)  Water-Stair (except ML Salt Crust ( Aquatic Invo Hydrogen S Oxidized RI Presence o	RA 1, 2, 4 B11) ertebrates Sulfide Odo nizosphere f Reduced Reduction Stresses F	s (B9)  IA, and 4  (B13)  or (C1)  es along L  I Iron (C4)  n in Tilled	B) Living Roots (C) Soils (C6)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ators (2 or mo ned Leaves (I 2, 4A, and 4E Patterns (B10) in Water Table Visible on Ae ic Position (D juitard (D3)	B9)  (a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	ery (C9)	
DROLOG Vetland Hyd rimary Indice Surface High W Satura Water Sedime Drift De Algal M Iron De Surface	Y  rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6)	s: f one requ ) rial Image	uired; che	eck all tha	water-Stair (except ML Salt Crust ( Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S	RA 1, 2, 4 B11) ertebrates Sulfide Odo nizosphere f Reduced Reduction Stresses F	s (B9)  IA, and 4  (B13)  or (C1)  es along L  I Iron (C4)  n in Tilled	B) Living Roots (C) Soils (C6)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ators (2 or moned Leaves (I 2, 4A, and 4E Patterns (B10) In Water Table Visible on Ae Ic Position (D Juitard (D3) al Test (D5) Mounds (D6	B9)  (a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	ery (C9)	
DROLOG Vetland Hyd rimary Indica Surface High W Satura Water Sedime Drift De Algal M Iron De Surface	rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aei	s: f one requ ) rial Image	uired; che	eck all tha	water-Stair (except ML Salt Crust ( Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S	RA 1, 2, 4 B11) ertebrates Sulfide Odo nizosphere f Reduced Reduction Stresses F	s (B9)  IA, and 4  (B13)  or (C1)  es along L  I Iron (C4)  n in Tilled	B) Living Roots (C) Soils (C6)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ators (2 or moned Leaves (I 2, 4A, and 4E Patterns (B10) In Water Table Visible on Ae Ic Position (D Juitard (D3) al Test (D5) Mounds (D6	B9)  (a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	ery (C9)	
DROLOG  Vetland Hyd rimary Indication Surface High W Satura Water Sedime Drift De Surface Iron De Surface	This soil profile m  This soil profile m  Trology Indicators ators (minimum of e Water (A1)  Vater Table (A2) tion (A3)  Marks (B1) ent Deposits (B2) eposits (B3) At or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aerelly Vegetated Con- eations:	s: f one requ ) rial Imago cave Sur	uired; che	eck all tha	at apply)  Water-Stair (except ML Salt Crust ( Aquatic Invo Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S Other (Expl	RA 1, 2, 4 B11) ertebrates Sulfide Odo nizosphere f Reduced Reduction Stresses F	s (B9)  IA, and 4  (B13)  or (C1)  es along L  I Iron (C4)  n in Tilled	B) Living Roots (C) Soils (C6)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ators (2 or moned Leaves (I 2, 4A, and 4E Patterns (B10) In Water Table Visible on Ae Ic Position (D Juitard (D3) al Test (D5) Mounds (D6	B9)  (a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	ery (C9)	
DROLOG  Vetland Hyd rimary Indic Surface High W Satura Water Sedime Drift De Surface Iron De Inunda Sparse	This soil profile many of the water (A1) water Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aerely Vegetated Contations:	s: f one requ  rial Image cave Sur	uired; che ery (B7) rface (B8)	eck all tha	at apply)  Water-Stair (except ML Salt Crust ( Aquatic Invelor Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S Other (Expl	ned Leaves RA 1, 2, 4 B11) ertebrates Gulfide Odd nizosphere f Reduced Reduction Stresses F ain in Ren	s (B9)  IA, and 4  (B13)  or (C1)  es along L  I Iron (C4)  n in Tilled	B) Living Roots (C) Soils (C6)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ators (2 or moned Leaves (I 2, 4A, and 4E Patterns (B10) In Water Table Visible on Ae Ic Position (D Juitard (D3) al Test (D5) Mounds (D6	B9)  (a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	ery (C9)	
/DROLOG Wetland Hyd Primary Indic Surface High W Satura Water Sedime Drift De Algal M Iron De Surface	This soil profile many of the water (A1) water Table (A2) tion (A3) warks (B1) ent Deposits (B3) and or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeroly Vegetated Contractions:  The present?  Present?	s: f one requ rial Image cave Sur Yes Yes	uired; che	eck all that	water-Stair (except ML Salt Crust ( Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S Other (Expl	ned Leaves RA 1, 2, 4 B11) ertebrates Sulfide Odd nizosphere f Reduced Reduction Stresses F ain in Rem	s (B9)  IA, and 4  (B13)  or (C1)  es along L  I Iron (C4)  n in Tilled	B) Living Roots (C) Soils (C6) (LRR A)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav	ators (2 or moned Leaves (i 2, 4A, and 4E Patterns (B10) in Water Table Visible on Ae ic Position (D juitard (D3) al Test (D5) Mounds (D6 re Hummocks	B9)  (a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	ery (C9)	
Primary Indication Saturation Principles Sat	This soil profile many of the water (A1) water Table (A2) tion (A3) warks (B1) ent Deposits (B3) and or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeroly Vegetated Contractions:  The present?  Present?	s: f one requ  rial Image cave Sur  Yes Yes Yes	uired; che	eck all tha	water-Stair (except ML Salt Crust ( Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Stunted or S Other (Expl	ned Leaves RA 1, 2, 4 B11) ertebrates Sulfide Odd nizosphere f Reduced Reduction Stresses F ain in Ren (inches): (inches):	s (B9)  IA, and 4  (B13)  or (C1)  es along L  I Iron (C4)  n in Tilled  Plants (D1  narks)	B) Living Roots (C) Soils (C6) (LRR A)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav	ators (2 or moned Leaves (i 2, 4A, and 4E Patterns (B10) in Water Table Visible on Ae ic Position (D juitard (D3) al Test (D5) Mounds (D6 re Hummocks	B9) 3) ) e (C2) rial Imag 2) ) (LRR A	ery (C9)	
VDROLOG Vetland Hyd Vrimary Indice Surface High W Satura Water Sedime Iron De Inunda Sparse Vuter Table Istaturation Proncludes cap	Y  rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aer ely Vegetated Con- ations: r Present? Present? esent? ellary fringe)	s: f one requ  rial Image cave Sur  Yes Yes Yes	uired; che	eck all tha	water-Stair (except ML Salt Crust ( Aquatic Invo Hydrogen S Oxidized Ri Presence o Recent Iron Stunted or S Other (Expl	ned Leaves RA 1, 2, 4 B11) ertebrates Sulfide Odd nizosphere f Reduced Reduction Stresses F ain in Ren (inches): (inches):	s (B9)  IA, and 4  (B13)  or (C1)  es along L  I Iron (C4)  n in Tilled  Plants (D1  narks)	B) Living Roots (C) Soils (C6) (LRR A)	Seco	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav	ators (2 or moned Leaves (i 2, 4A, and 4E Patterns (B10) in Water Table Visible on Ae ic Position (D juitard (D3) al Test (D5) Mounds (D6 re Hummocks	B9) 3) ) e (C2) rial Imag 2) ) (LRR A	ery (C9)	

	Datum: fication: <u>None</u> Remarks.) Yes narks.)	ppe (%):	_
CONVEX  NWI classing, explain in less present?  swers in Rem	Slo Datum: fication: <u>None</u> Remarks.) Yes narks.)	ppe (%):	_
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no, explain in les" present? swers in Rem	Remarks.) Yes		No 🗆
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swers in Rem	narks.)	s 🛛	No 🗆
	•		
tant feature	es, etc.		
tant feature	es, etc.		
	Yes	; <b></b>	No 🛛
nd Kingston.	The site is large so	o was divi	ded into
the central se	egment and at the	top end of	а
Worksheet:			
ant Species			
CW, or FAC:	<u>0</u>		(A)
ominant			
l Strata:	<u>5</u>		(B)
ant Species			
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% Cover of:		Itiply by:	
	x1 :		
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Prevalence I	Index = B/A =		(B)
Prevalence I	Index = B/A = ators:		(B)
Prevalence I etation Indica est for Hydrop	ators:  hytic Vegetation		(B)
Prevalence I etation Indica est for Hydrop	ators:  hytic Vegetation		(B)
Prevalence I etation Indica est for Hydrop ce Test is >50	ators:  hytic Vegetation 0%		(B)
Prevalence I etation Indicates for Hydrop ce Test is >50 ce Index is <3 gical Adaptat	ators:  hytic Vegetation		(B)
Prevalence I  etation Indicates for Hydrop  ce Test is >50  ce Index is ≤3  gical Adaptat  emarks or on	ators:  ohytic Vegetation  0%  3.0¹  titions¹ (Provide sup a separate sheet)		(B)
Prevalence I  etation Indicates for Hydrop  ce Test is >50  ce Index is ≤3  gical Adaptat  emarks or on	ators:  ohytic Vegetation  0%  3.0¹  titions¹ (Provide sup a separate sheet)		(B)
Prevalence I etation Indicates for Hydropoce Test is >50 ce Index is <3 gical Adaptatemarks or on Non-Vascular	ators:  hytic Vegetation  0%  3.0¹  tions¹ (Provide sup a separate sheet)  r Plants¹	-	(B)
Prevalence I etation Indicates for Hydropoce Test is >50 ce Index is <3 gical Adaptatemarks or on Non-Vascular Hydrophytic \	ators:  hytic Vegetation  0%  3.0¹  tions¹ (Provide sup a separate sheet)  r Plants¹  Vegetation¹ (Explain	in)	(B)
Prevalence I etation Indicates for Hydropoce Test is >50 ce Index is <3 gical Adaptatemarks or on Non-Vascular Hydrophytic \	ators:  chytic Vegetation  0%  3.0¹  ctions¹ (Provide sup a separate sheet)  r Plants¹  Vegetation¹ (Explainate)	in)	(B)
Prevalence I etation Indicates for Hydropoce Test is >50 ce Index is <3 gical Adaptatemarks or on Non-Vascular Hydrophytic Vic soil and we	ators:  chytic Vegetation  0%  3.0¹  ctions¹ (Provide sup a separate sheet)  r Plants¹  Vegetation¹ (Explainate)	in)	(B)
Prevalence I etation Indicates for Hydropoce Test is >50 ce Index is <3 gical Adaptatemarks or on Non-Vascular Hydrophytic Vic soil and we	ators:  chytic Vegetation  0%  3.0¹  ctions¹ (Provide sup a separate sheet)  r Plants¹  Vegetation¹ (Explainate)	in)	(B)
Prevalence I etation Indicates for Hydropoce Test is >50 ce Index is <3 gical Adaptatemarks or on Non-Vascular Hydrophytic Vic soil and we disturbed or	ators:  chytic Vegetation  0%  3.0¹  ctions¹ (Provide sup a separate sheet)  r Plants¹  Vegetation¹ (Explaination)  etland hydrology migroblematic.	in) ust	
Prevalence I etation Indicates for Hydropoce Test is >50 ce Index is <3 gical Adaptatemarks or on Non-Vascular Hydrophytic Vic soil and we	ators:  chytic Vegetation  0%  3.0¹  ctions¹ (Provide sup a separate sheet)  r Plants¹  Vegetation¹ (Explaination)  etland hydrology migroblematic.	in)	(B)
Prevalence I etation Indicates for Hydropoce Test is >50 ce Index is <3 gical Adaptatemarks or on Non-Vascular Hydrophytic Vic soil and we disturbed or	ators:  chytic Vegetation  0%  3.0¹  ctions¹ (Provide sup a separate sheet)  r Plants¹  Vegetation¹ (Explaination)  etland hydrology migroblematic.	in) ust	
no Re	Prevalence   getation Indic est for Hydrop nce Test is >50 nce Index is < logical Adaptat Remarks or on	Remarks or on a separate sheet) I Non-Vascular Plants <sup>1</sup>	(A)  Prevalence Index = B/A =  getation Indicators:  Test for Hydrophytic Vegetation name Test is >50%  name Index is <3.01  ogical Adaptations1 (Provide supporting Remarks or on a separate sheet)

nches)	Color (moist)	%		Color (mo	nist)	Redox Feat %	Type <sup>1</sup>	Loc <sup>2</sup>	— Texture	2		Remarks	2	
0-2	10YR 2/2	10		00101 (1110	<u>Jist)</u>		Турс		silt loa			rtemark	•	
<u>2-7</u>	10YR 5/3	30		7.5YR 4	l/6	<u></u>	<u>C</u>	<u>M</u>	sandy k		=			
<u></u>	10YR 5/6	6		<u></u>	<u>70</u>	<u>~</u>	<u> </u>	<u></u>	<u>ourray</u>		_			
<u>7-16</u>	7.5YR 4/4	<u>10</u>		-	•				sandy lo	am ——	_			
	<u> </u>		_		•						_			
					•					<u> </u>	_			
				· <u>·</u>	<u>.</u>									
				<u></u>	_						_			
 ре: С= С	Concentration, D=De	epletion,	RM=R	educed Mat	rix, CS=0	Covered or Co	ated Sand	d Grains. ²l	ocation: PL	=Pore Lining	, M=Matrix,	RC=Root	t Chann	nel
dric Soil	Indicators: (Applie	cable to	all LR	Rs, unless	otherwis	se noted.)			Indi	icators for P	roblematic	Hydric S	ioils³:	
Histos	sol (A1)				Sandy	Redox (S5)				2 cm Mud	k (A10)			
Histic	Epipedon (A2)				Strippe	ed Matrix (S6)				Red Pare	nt Material (	TF2)		
Black	Histic (A3)				Loamy	y Mucky Miner	al (F1) <b>(ex</b>	ccept MLRA 1)		Very Sha	llow Dark Sเ	ırface (TI	<del>-</del> 12)	
Hydro	gen Sulfide (A4)				Loamy	y Gleyed Matri	x (F2)			Other (Ex	plain in Ren	narks)		
Deplet	ted Below Dark Sur	face (A1	11)		Deplet	ted Matrix (F3)	)							
Thick	Dark Surface (A12)	)			Redox	Dark Surface	(F6)							
Sandy	y Mucky Mineral (S1	1)			Deplet	ted Dark Surfa	ice (F7)			licators of hyd				
Sandy	y Gleyed Matrix (S4	)			Redox	Depressions	(F8)			vetland hydro unless disturb			ι,	
strictive	Layer (if present):													
e:														
oth (inche	es):							Hydric Soile	Present?		Yes		No	
marks.	This soil profile m	neets no	ne of th	e hydric soi	il indicato	ers because of	the high n							
marks:		neets no	ne of th	e hydric soi	il indicato	ors because of	the high n							
PROLOG			ne of th	e hydric soi	il indicato	ors because of	the high n							
PROLOG	gy .	s:				ors because of	the high n			ndary Indicat	ors (2 or mo	re require	ed)	
PROLOG tland Hy mary Indi	GY rdrology Indicators	s:			at apply)	ors because of				ndary Indicat Water-Staine	•		ed)	
ROLOG tland Hy mary Indi Surfac	GY vdrology Indicators icators (minimum of	s:		check all tha	at apply) Water-		es (B9)	matrix colors.	Seco		ed Leaves (E	39)	ed)	
PROLOG tland Hy mary Indi Surfac High V	GY /drology Indicators icators (minimum of ice Water (A1)	s:		check all tha	at apply) Water- (excep	-Stained Leave	es (B9)	matrix colors.	Seco	Water-Stain	ed Leaves (E	39) )	ed)	
ROLOG tland Hy nary Indio Surfar High \	GY /drology Indicators icators (minimum of ice Water (A1) Water Table (A2)	s:		check all tha	at apply) Water- (excep	-Stained Leave	es (B9) <b>4A, and</b> 4	matrix colors.	Seco	Water-Staine	ed Leaves (E 4A, and 4B tterns (B10)	39) <b>)</b>	ed)	
ROLOG tland Hy mary Indi Surfac High V Satura Water	rdrology Indicators icators (minimum of ice Water (A1) Water Table (A2) ration (A3)	s:		check all tha	at apply) Water- (excep Salt Ci Aquatic	-Stained Leave pt MLRA 1, 2, rust (B11)	es (B9) <b>4A, and 4</b> s (B13)	matrix colors.	Seco	Water-Staine (MLRA 1, 2, Drainage Pa	ed Leaves (E 4A, and 4B tterns (B10) Water Table	39) )	,	
PROLOG Itland Hy mary Indi Surfar High V Satur: Water Sedin	drology Indicators icators (minimum of ice Water (A1) Water Table (A2) ration (A3) ir Marks (B1)	s:		check all tha	at apply) Water- (excep Salt Cr Aquati Hydrog	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc	es (B9) <b>4A, and 4</b> s (B13) dor (C1)	matrix colors.	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Ae	39)  (C2)  (C3)	,	
PROLOG tland Hy mary India Surfar High N Satura Water Sedin Drift I	ydrology Indicators icators (minimum of ice Water (A1) Water Table (A2) ration (A3) ir Marks (B1) ment Deposits (B2)	s:		check all tha	at apply) Water- (excep Salt Cr Aquati Hydrog Oxidize	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc	es (B9) <b>4A, and 4</b> s (B13)  dor (C1)  res along l	matrix colors.  4B)  Living Roots (C	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V	ed Leaves (E  4A, and 4B  tterns (B10)  Water Table isible on Ael  Position (D2	39)  (C2)  (C3)	,	)
PROLOG etland Hy mary India Surfar High V Satura Water Sedin Drift I	rdrology Indicators icators (minimum of ice Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3)	s:		check all tha	at apply) Water- (excep Salt Ci Aquatii Hydroq Oxidizo	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc ted Rhizospher	es (B9)  4A, and 4  s (B13) dor (C1) res along I ed Iron (C4	matrix colors.  4B)  Living Roots (C	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Ael Position (D2) itard (D3)	39)  (C2)  (C3)	,	)
PROLOG Itland Hy mary India Surfac High Satura Water Sedin Drift I Algal Iron I Surfac	rdrology Indicators icators (minimum of ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6)	s: one req	quired; c	check all tha	at apply)  Water- (excep Salt Co Aquation Hydroo Oxidizo Preser Recen Stunte	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc red Rhizospher nce of Reduce nt Iron Reduction	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tilled	matrix colors.  4B)  Living Roots (C4) d Soils (C6)	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (E  4A, and 4B  tterns (B10)  Water Table  isible on Aer  Position (D2)  itard (D3)  Test (D5)  Mounds (D6)	(C2) rial Image (2) (LRR A)	ery (C9)	)
PROLOG tland Hy mary India Surfar High V Satur: Water Sedin Drift D Algal Iron D Surfar Inund	rdrology Indicators icators (minimum of ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6) dation Visible on Aer	s: fone req	quired; c	check all that	at apply)  Water- (excep Salt Co Aquation Hydroo Oxidizo Preser Recen Stunte	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc ted Rhizosphei nce of Reduce at Iron Reductio	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tilled	matrix colors.  4B)  Living Roots (C4) d Soils (C6)	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral	ed Leaves (E  4A, and 4B  tterns (B10)  Water Table  isible on Aer  Position (D2)  itard (D3)  Test (D5)  Mounds (D6)	(C2) rial Image (2) (LRR A)	ery (C9)	)
PROLOG Istland Hy mary India Surfar High V Satura Water Sedim Drift I Algal Iron I Surfar Inund Spars	drology Indicators (minimum of ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6) dation Visible on Aerosely Vegetated Cone	s: fone req	quired; c	check all that	at apply)  Water- (excep Salt Co Aquation Hydroo Oxidizo Preser Recen Stunte	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc red Rhizospher nce of Reduce nt Iron Reduction	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tilled	matrix colors.  4B)  Living Roots (C4) d Soils (C6)	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (E  4A, and 4B  tterns (B10)  Water Table  isible on Aer  Position (D2)  itard (D3)  Test (D5)  Mounds (D6)	(C2) rial Image (2) (LRR A)	ery (C9)	)
Surfard Hymary India Surfard High N Satura Water Sedin Drift E Algal Iron E Surfar Inund Spars	rdrology Indicators (minimum of ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6) dation Visible on Aersely Vegetated Concretations:	s: one req	quired; c gery (B7 urface (E	check all that	at apply) Water- (excep Salt Ci Aquatii Hydrog Oxidize Preser Recen Stunte Other	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc red Rhizospher nce of Reduce nt Iron Reduction ed or Stresses (Explain in Re	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tilled	matrix colors.  4B)  Living Roots (C4) d Soils (C6)	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (E  4A, and 4B  tterns (B10)  Water Table  isible on Aer  Position (D2)  itard (D3)  Test (D5)  Mounds (D6)	(C2) rial Image (2) (LRR A)	ery (C9)	)
PROLOG  etland Hy mary India  Surfac  High V Satura  Vater  Sedin  Drift E Algal  Iron E Surfac  Inund Spars  eld Obser  rface Wat	rdrology Indicators icators (minimum of ice Water (A1)) Water Table (A2) ration (A3) In Marks (B1) Inent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Ice Soil Cracks (B6) Idation Visible on Aerisely Vegetated Contractions: Iter Present?	s: fone req	quired; c gery (B7 ⊔	check all that	at apply) Water- (excep Salt Ci Aquatii Hydrog Oxidize Preser Recen Stunte Other	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc red Rhizospher nce of Reduce nt Iron Reduction	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tilled	matrix colors.  4B)  Living Roots (C4) d Soils (C6)	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (E  4A, and 4B  tterns (B10)  Water Table  isible on Aer  Position (D2)  itard (D3)  Test (D5)  Mounds (D6)	(C2) rial Image (2) (LRR A)	ery (C9)	)
PROLOG  Itland Hy mary India  Surfac  High V Satur:  Water  Sedin  Drift E Algal  Iron E Surfac  Inund  Spars  Id Obser  face Wat  Iter Table	rdrology Indicators icators (minimum of ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6) dation Visible on Aerosely Vegetated Concretations: ter Present?	s: one req	quired; c	check all that	at apply) Water- (excep Salt Ci Aquati Hydrog Oxidize Preser Recen Stunte Other	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc red Rhizospher nce of Reduce nt Iron Reduction ed or Stresses (Explain in Re	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tilled	matrix colors.  4B)  Living Roots (C4) d Soils (C6)	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (E  4A, and 4B  tterns (B10)  Water Table  isible on Aer  Position (D2)  itard (D3)  Test (D5)  Mounds (D6)	(C2) rial Image (2) (LRR A)	ery (C9)	)
PROLOGI tland Hy mary India Surfaci High V Satura Vater Sedin Drift D Algal Iron D Surfaci Inund Spars Id Obser face Wat ter Table	drology Indicators (minimum of ice Water (A1)) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Ice Soil Cracks (B6) dation Visible on Aerosely Vegetated Concrvations: ter Present?	s: fone req rial Imag cave Su	quired; c gery (B7 ⊔	check all that	at apply) Water- (excep Salt Ci Aquati Hydrog Oxidizi Preser Recen Stunte Other i	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc ted Rhizospher nce of Reduce at Iron Reduction ed or Stresses (Explain in Re	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tilled	AB) Living Roots (C4) d Soils (C6) 1) (LRR A)	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Aei Position (D2 itard (D3) Test (D5) Mounds (D6) Hummocks	(C2) rial Image (2) (LRR A)	, (C9)	) No
PROLOG  Itland Hy mary India  Surfac  High V Satura  Sedin  Drift E Algal Iron E Surfac Inund Spars  Id Obser face Wat  uter Table  turation P	rdrology Indicators icators (minimum of ice Water (A1)) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6) dation Visible on Aersely Vegetated Contractions: ter Present? Present?	s: fone req rial Imag cave Su Yes Yes Yes	gery (B7	check all that	at apply) Water- (excep Salt Ci Aquati Hydrog Oxidizi Preser Recen Stunte Other i	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc ted Rhizosphel nce of Reduce nt Iron Reduction ed or Stresses (Explain in Re epth (inches): epth (inches):	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tillec Plants (D1 emarks)	AB) Living Roots (C d) d Soils (C6) 1) (LRR A)	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant I Frost-Heave	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Aei Position (D2 itard (D3) Test (D5) Mounds (D6) Hummocks	39)  (C2)  (C2)  (a)  (LRR A)  (D7)	, (C9)	
PROLOGITION TO SURFACE SECTION OF THE PROPERTY	rdrology Indicators icators (minimum of ice Water (A1) Water Table (A2) ration (A3) In Marks (B1) Inent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Ice Soil Cracks (B6) Idation Visible on Aerosely Vegetated Concrvations: Iter Present? Present? Present? Present?	s: fone req rial Imag cave Su Yes Yes Yes	gery (B7	check all that	at apply) Water- (excep Salt Ci Aquati Hydrog Oxidizi Preser Recen Stunte Other i	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrates gen Sulfide Oc ted Rhizosphel nce of Reduce nt Iron Reduction ed or Stresses (Explain in Re epth (inches): epth (inches):	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tillec Plants (D1 emarks)	AB) Living Roots (C d) d Soils (C6) 1) (LRR A)	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant I Frost-Heave	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Aei Position (D2 itard (D3) Test (D5) Mounds (D6) Hummocks	39)  (C2)  (C2)  (a)  (LRR A)  (D7)	, (C9)	

? Yes y disturbed? roblematic?  ng point let lo	Are "No (If need ocations, trus the Sample within a Wetland I Bond Road but 31 is located or Status FACU FACU FACU	Section, Tow ve, convex, none): Long:  No	NWI classifino, explain in Fes" present? swers in Remarkant feature: and Kingston. Tend of the center of the cente	cication: Remarks.) arks.) s, etc.	7 N R 2 EV Slope ( Datum: None Yes    Yes	%): <u>5</u> ☑ No	(A)
? Yes y disturbed? roblematic?  ng point le	Are "No (If need ocations, tres the Sample within a Wetland I Bond Road but 31 is located Indicator Status FACU FACU FACU FACU	No	NWI classifico, explain in Fes" present? swers in Remarkant feature: and Kingston. Thend of the centre of the cent	cication: Remarks.) arks.) s, etc.	Slope ( Datum:	%): <u>5</u> ☑ No	I into  (A) (B)
? Yes y disturbed? roblematic?  ng point le	Are "No (If need ocations, tres the Sample within a Wetland I Bond Road but 31 is located Indicator Status FACU FACU FACU FACU	No	NWI classifing, explain in Fest present?  swers in Remarkant features  and Kingston. Thend of the center of the ce	ication: Remarks.) arks.) s, etc.  The site is la	Yes    Yes    arge so want.	⊠ No	I into  (A) (B)
y disturbed? roblematic?  ng point letter   lett	Are "No (If need ocations, trusted states and states and states and states are states ar	No	worksheet: worksheet: worksheet: worksheet: worksheet: worksheet: worksheet: worksheet:	ication: Remarks.) arks.) s, etc.  The site is la	Yes    Yes    arge so want.	⊠ No	I into  (A) (B)
y disturbed? roblematic?  ng point letter   lett	Are "No (If need ocations, trusted states and states and states and states are states ar	cransects, imported Area land?  between Poulsbo and towards the north  Dominance Test  Number of Domina That Are OBL, FAI  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	worksheet: worksheet: worksheet: worksheet: worksheet: worksheet: worksheet: worksheet:	Remarks.) arks.) s, etc.  The site is la	Yes    Yes    arge so want.	□ No	I into  (A) (B)
y disturbed? roblematic?  ng point letter   lett	Are "No (If need ocations, trusted states and states and states and states are states ar	cransects, imported Area land?  between Poulsbo and towards the north  Dominance Test  Number of Domina That Are OBL, FAI  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	worksheet:  ant Species CW, or FAC: worksheet:	arks.)  s, etc.  The site is la	Yes   arge so wa nt.	□ No	I into  (A) (B)
ng point I	(If need ocations, trees the Sample within a Wetland I Bond Road but 31 is located Indicator Status FACU FACU FACU FACU FACU	cransects, imported Area land?  between Poulsbo and towards the north  Dominance Test  Number of Domina That Are OBL, FAI  Total Number of Domina That Are OBL, FAI  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	worksheet: ant Species CW, or FAC: ominant I Strata: ant Species CW, or FAC: worksheet:	s, etc.	Yes   arge so wa nt.	□ No	I into  (A) (B)
ng point I	Bond Road by the Status FACU FACU FACU	cransects, imported Area land?  between Poulsbo and towards the north  Dominance Test  Number of Domina That Are OBL, FAI  Total Number of D Species Across Al  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	worksheet: ant Species CW, or FAC: ominant I Strata: ant Species CW, or FAC: worksheet:	s, etc.	arge so want.		I into  (A)  (B)
No S Is well and the second se	s the Sample within a Wetland Bond Road but 31 is located Indicator Status FACU FACU FACU	ed Area land? between Poulsbo at d towards the north  Dominance Test  Number of Domina  That Are OBL, FAI  Total Number of D  Species Across Al  Percent of Domina  That Are OBL, FAI  Prevalence Index  Total  OBL species	worksheet: ant Species CW, or FAC: ominant I Strata: ant Species CW, or FAC: worksheet:	Γhe site is la	arge so want.		I into  (A)  (B)
No S Is well and the second se	s the Sample within a Wetland Bond Road but 31 is located Indicator Status FACU FACU FACU	ed Area land? between Poulsbo at d towards the north  Dominance Test  Number of Domina  That Are OBL, FAI  Total Number of D  Species Across Al  Percent of Domina  That Are OBL, FAI  Prevalence Index  Total  OBL species	worksheet: ant Species CW, or FAC: ominant I Strata: ant Species CW, or FAC: worksheet:	Γhe site is la	arge so want.		I into  (A)  (B)
ominant oecies?	I Bond Road beta 31 is located  Indicator Status FACU FACU FACU	between Poulsbo at d towards the north  Dominance Test \(^1\)  Number of Domina That Are OBL, FAI  Total Number of Domina That Are OBL, FAI  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	Worksheet: ant Species CW, or FAC: ominant I Strata: ant Species CW, or FAC: worksheet:		arge so want.		I into  (A)  (B)
ominant pecies?	I Bond Road beta 31 is located  Indicator Status FACU FACU FACU	between Poulsbo at d towards the north  Dominance Test \(^1\)  Number of Domina That Are OBL, FAI  Total Number of Domina That Are OBL, FAI  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	Worksheet: ant Species CW, or FAC: ominant I Strata: ant Species CW, or FAC: worksheet:		arge so want.		I into  (A)  (B)
ominant opecies?	Indicator Status FACU FACU FACU FACU	Dominance Test Number of Domina That Are OBL, FAI Total Number of D Species Across Al Percent of Domina That Are OBL, FAI Prevalence Index Total OBL species	Worksheet: ant Species CW, or FAC: ominant I Strata: ant Species CW, or FAC: worksheet:		1 6	is divided	(A) (B)
ominant oecies? es  Total Cover	Indicator Status FACU FACU FACU FACU	Dominance Test Number of Domina That Are OBL, FAI Total Number of D Species Across Al Percent of Domina That Are OBL, FAI Prevalence Index Total OBL species	Worksheet: ant Species CW, or FAC: ominant I Strata: ant Species CW, or FAC: worksheet:		1 6	is divided	(A) (B)
ominant oecies? es es Total Cover	Indicator Status FACU FACU FACU FACU	Dominance Test Number of Domina That Are OBL, FAI Total Number of D Species Across AI Percent of Domina That Are OBL, FAI Prevalence Index Total OBL species	Worksheet: ant Species CW, or FAC: ominant I Strata: ant Species CW, or FAC: worksheet:	itral segmel	<u>1</u>		(B)
oecies?  28  28  Total Cover	Status FACU FACU FACU FACU	Number of Domina That Are OBL, FAI  Total Number of D Species Across Al  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	ant Species CW, or FAC: ominant I Strata: unt Species CW, or FAC: worksheet:		<u>6</u>		(B)
oecies?  28  28  Total Cover	Status FACU FACU FACU FACU	Number of Domina That Are OBL, FAI  Total Number of D Species Across Al  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	ant Species CW, or FAC: ominant I Strata: unt Species CW, or FAC: worksheet:		<u>6</u>		(B)
oecies?  28  28  Total Cover	Status FACU FACU FACU FACU	Number of Domina That Are OBL, FAI  Total Number of D Species Across Al  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	ant Species CW, or FAC: ominant I Strata: unt Species CW, or FAC: worksheet:		<u>6</u>		(B)
es es Total Cover	FACU FACU FACU FACU	That Are OBL, FAI  Total Number of D  Species Across AI  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	ominant I Strata:  int Species CW, or FAC:  worksheet:		<u>6</u>		(B)
Total Cover	FACU	That Are OBL, FAI  Total Number of D  Species Across AI  Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	ominant I Strata:  int Species CW, or FAC:  worksheet:		<u>6</u>		(B)
<u>es</u>	FACU	Species Across Al Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	I Strata: ant Species CW, or FAC: worksheet:				
<u>es</u>	FACU	Percent of Domina That Are OBL, FAI  Prevalence Index  Total  OBL species	ant Species CW, or FAC: worksheet:				
<u>es</u>	FACU	Prevalence Index  Total  OBL species	worksheet:		<u>16</u>		(A/B)
		Prevalence Index  Total  OBL species	worksheet:		<u>10</u>		(A/D)
		Total OBL species					
<u></u>	<u>FAC</u>	OBL species	% Cover of:				
<u> </u>	<u> </u>	•			Multiply	by:	
_		FACW species			x1 =		
		. ACTT Species			x2 =		
_		FAC species			x3 =		
Total Cover	-	FACU species			x4 =		
		UPL species			x5 =		
<u>es</u>	<u>FACU</u>	Column Totals:	(/	<b>A</b> )			(B)
es es	FACU		Prevalence Ir	ndex = B/A	=		
<u> </u>	FACU	Hydrophytic Vege	etation Indica	tors:			
•		☐ 1 – Rapid Te			ation		
		•	ce Test is >50	-			
		_	ce Index is <3.				
_			_		da aummant	in.a	
_			gical Adaptation Gemarks or on a			.ng	
_		5 - Wetland	Non-Vascular	Plants <sup>1</sup>			
		_			(F I = i = )		
_		□ Problematic	Hydropnytic v	egetation '	(Explain)		
— Total Cavar		<sup>1</sup> Indicators of hydr	c soil and wet	land hydrol	ogy must		
Total Cover		be present, unless	disturbed or p	problematic			
	<u> </u>						
_		Hydrophytic				No	$\boxtimes$
— —	_	Hydrophytic Vegetation	Yes	s [	]		
  Total Cover	_		Yes	s [	]		
-	— Γotal Cover	Fotal Cover		Total Cover   1 Indicators of hydric soil and wet be present, unless disturbed or p	Total Cover   1 Indicators of hydric soil and wetland hydrole be present, unless disturbed or problematic.	Total Cover     Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.    Hydrophytic   Vegetation   Yes □	Total Cover   1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation Yes □ No

Depth	Matrix				Redox Feat	ures		_		
nches)	Color (moist)	%	Color	r (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rer	marks
<u>0-3</u>	10YR 2/1	<u>100</u>	_					silt loar	<u> </u>	
<u>3-6</u>	10YR 4/3	<u>100</u>	_					silt loar	<u> </u>	
<u>6-16</u>	7.5YR 4/6	<u>97</u>	<u>2.5Y</u>	/R 5/3	<u>3</u>	<u>c</u>	<u>m</u>	<u>silt loar</u>	<u> </u>	
			_	—					<del></del>	
			_	—						
			_	—				-	<del>-</del>	
									<del></del>	
vpe: C= C	——— oncentration. D=De	epletion. RN	— /I=Reduced	—— Matrix. (	CS=Covered or Co	ated Sand	Grains. <sup>2</sup> L	ocation: PL=	- ——— -Pore Lining, M=Matrix, RC=	Root Channel
	Indicators: (Applic	•							cators for Problematic Hyd	
Histos	ol (A1)		Г	□ Sa	andy Redox (S5)				2 cm Muck (A10)	
Histic	Epipedon (A2)			☐ St	tripped Matrix (S6)				Red Parent Material (TF2	2)
Black	Histic (A3)			☐ Lo	oamy Mucky Minera	al (F1) <b>(ex</b>	cept MLRA 1)		Very Shallow Dark Surfac	ce (TF12)
Hydro	gen Sulfide (A4)			☐ Lo	oamy Gleyed Matrix	x (F2)			Other (Explain in Remark	s)
Deplet	ed Below Dark Sur	face (A11)		] De	epleted Matrix (F3)	)				
Thick I	Dark Surface (A12)			☐ Re	edox Dark Surface	(F6)				
] Sandy	Mucky Mineral (S1	)		] De	epleted Dark Surfa	ce (F7)			cators of hydrophytic vegeta retland hydrology must be pr	
Sandy	Gleyed Matrix (S4)	)		☐ Re	edox Depressions	(F8)			nless disturbed or problemat	
	Layer (if present):									
уре:										
epth (inche	6).							resent?	Yes [	No
Remarks:		eets none	of the hydric	soil indi	icators because of	the high m	Hydric Soils F		103	
Remarks:	This soil profile m		of the hydric	soil indi	icators because of	the high m			103	
emarks:  'DROLOG Vetland Hy	This soil profile m	3:				the high m				and the
emarks:  'DROLOG Vetland Hydrimary India	This soil profile m  Y  drology Indicators cators (minimum of	3:	ed; check all	l that apı	pply)			Secon	dary Indicators (2 or more re	equired)
EMARKS:  DROLOG  Vetland Hyrrimary India  Surface	This soil profile m  Y  drology Indicators cators (minimum of	3:	ed; check all	l that app	oply) /ater-Stained Leave	es (B9)	natrix colors.	Secon	idary Indicators (2 or more re Water-Stained Leaves (B9)	equired)
DROLOG /etland Hyr rimary India   Surfac	This soil profile m  Y  drology Indicators cators (minimum of se Water (A1)  Vater Table (A2)	3:	ed; check all	l that ap∣	pply) /ater-Stained Leave except MLRA 1, 2,	es (B9)	natrix colors.	Secon	dary Indicators (2 or more re Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	equired)
TDROLOG Vetland Hyrrimary India Surfac High \	This soil profile m	3:	ed; check all	l that app □ W (e	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11)	es (B9) <b>4A</b> , and 4	natrix colors.	Secon	idary Indicators (2 or more re Water-Stained Leaves (B9) ( <b>MLRA 1, 2, 4A, and 4B</b> ) Drainage Patterns (B10)	
TDROLOG Vetland Hydrimary India Surfac High \ Satura Water	This soil profile m  GY  drology Indicators cators (minimum of ce Water (A1)  Vater Table (A2) ation (A3)  Marks (B1)	3:	ed; check all	l that app □ W (e □ Sa	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates	es (B9) <b>4A, and 4</b> s (B13)	natrix colors.	Secon	idary Indicators (2 or more re Water-Stained Leaves (B9) ( <b>MLRA 1, 2, 4A, and 4B)</b> Drainage Patterns (B10) Dry-Season Water Table (C2	2)
TDROLOG Vetland Hydrimary India Surfac High \ Satura Water Sedim	This soil profile m	3:	ed; check al	l that app □ W (e □ Sa □ Ac	oply)  /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates	es (B9) <b>4A, and 4</b> s (B13)  dor (C1)	natrix colors.	Secon	idary Indicators (2 or more re Water-Stained Leaves (B9) ( <b>MLRA 1, 2, 4A, and 4B)</b> Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial I	2)
TOROLOG Vetland Hy rimary India Surfac High \ Satura Water Sedim Drift D	This soil profile m	3:	ed; check all	l that app	oply)  Vater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates ydrogen Sulfide Od xidized Rhizospher	es (B9) <b>4A, and 4</b> s (B13)  dor (C1)  res along l	natrix colors.  B)	Secon	dary Indicators (2 or more re Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial I Geomorphic Position (D2)	2)
POROLOG Vetland Hy rimary India Surfac High \ Satura Water Sedim Drift D	This soil profile m  drology Indicators cators (minimum of the Water (A1)  Vater Table (A2) ation (A3)  Marks (B1) thent Deposits (B2) deposits (B3)  Mat or Crust (B4)	3:	ed; check all [ [ [ [ [	l that app  W (e □ Sa □ Ac □ Hy □ Ox	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates ydrogen Sulfide Oc xidized Rhizospher resence of Reduce	es (B9) <b>4A, and 4</b> s (B13) dor (C1) res along L d Iron (C4	natrix colors.  BB)  Living Roots (C3)	Secon ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	dary Indicators (2 or more re Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3)	2)
Primary India Surface High V Satura Water Drift D Algal I	This soil profile m	s: one require	ed; check all	I that app  □ W (e □ Sa □ Ac □ Hy □ Pr □ Re	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates lydrogen Sulfide Octoidized Rhizospher resence of Reduces except Iron Reduction	es (B9)  4A, and 4  s (B13) dor (C1) res along L d Iron (C4 on in Tilled	natrix colors.  BB)  Living Roots (C3)  I Soils (C6)	Secon	Mary Indicators (2 or more rewarder-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)	2) magery (C9)
YDROLOG Vetland Hydrimary India Surfac High V Satura Sedim Sedim Algal Iron D Surfac	This soil profile m	s: one require	ed; check all	I that app  (e Sa Ac Hy Pr Re	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates ydrogen Sulfide Oct ixidized Rhizospher resence of Reduce ecent Iron Reduction	es (B9)  4A, and 4  s (B13) dor (C1) res along L d Iron (C4 on in Tilled Plants (D1	natrix colors.  BB)  Living Roots (C3)  I Soils (C6)	Secon	Idary Indicators (2 or more rewarder-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LF	2) magery (C9)
FOROLOG  Fetland Hydrimary India  Surfac  Water  Sedim  Drift D  Algal I  Iron D  Surfac	This soil profile m	s: one require	ed; check all [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	l that app  □ W (ee □ Sa □ Ac □ Hy □ O: □ Pr □ Re	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates lydrogen Sulfide Octoidized Rhizospher resence of Reduces except Iron Reduction	es (B9)  4A, and 4  s (B13) dor (C1) res along L d Iron (C4 on in Tilled Plants (D1	natrix colors.  BB)  Living Roots (C3)  I Soils (C6)	Secon	Mary Indicators (2 or more rewarder-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)	2) magery (C9)
TOROLOG Vetland Hyv rimary India Surfac High V Sedim Sedim Nrift D Iron D Surfac	This soil profile m  This soil	s: one require	ed; check all [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	I that app  (e Sa Ac Hy Re	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates ydrogen Sulfide Oct ixidized Rhizospher resence of Reduce ecent Iron Reduction	es (B9)  4A, and 4  s (B13) dor (C1) res along L d Iron (C4 on in Tilled Plants (D1	natrix colors.  BB)  Living Roots (C3)  I Soils (C6)	Secon	Idary Indicators (2 or more rewarder-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LF	2) magery (C9)
PROLOG Vetland Hy rimary India Surfac High \ Satura Vater Sedim Drift D Hon D Surfac Inund: Spars ield Obser	This soil profile m	s: one require	ed; check all [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	I that app  (e)  According to the period of	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates ydrogen Sulfide Oct ixidized Rhizospher resence of Reduces ecent Iron Reduction tunted or Stresses other (Explain in Res	es (B9)  4A, and 4  s (B13) dor (C1) res along L d Iron (C4 on in Tilled Plants (D1	natrix colors.  BB)  Living Roots (C3)  I Soils (C6)	Secon	Idary Indicators (2 or more rewarder-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LF	2) magery (C9)
DROLOG  Vetland Hy rimary India Surfac High \ Satura Drift D Sedim Iron D Surfac Inunda Spars ield Obser	This soil profile m  Ary  Arology Indicators  Cators (minimum of  Ce Water (A1)  Water Table (A2)  Ation (A3)  Marks (B1)  Ment Deposits (B2)  Mat or Crust (B4)  Mat or Crust (B4)  Mat or Crust (B4)  Mat or Crust (B6)  Mat	s: one require rial Imagery cave Surface	ed; check all	I that app  (e)  According to the property of	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates dydrogen Sulfide Octoridized Rhizospher resence of Reduces excent Iron Reduction tunted or Stresses other (Explain in Reduction Depth (inches):	es (B9)  4A, and 4  s (B13) dor (C1) res along L d Iron (C4 on in Tilled Plants (D1	natrix colors.  BB)  Living Roots (C3)  I Soils (C6)	Secon	Idary Indicators (2 or more rewarder-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LF	2) magery (C9)
VDROLOG Vetland Hy Vrimary India Surfac Sedim Sedim Sedim Sedim Iron D Iron D Inunda Spars Vater Table Seduration P	This soil profile m  This soil	s: one require	ed; check all	I that app  (e)  According to the period of	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates ydrogen Sulfide Oct ixidized Rhizospher resence of Reduces ecent Iron Reduction tunted or Stresses other (Explain in Res	es (B9)  4A, and 4  s (B13) dor (C1) res along L d Iron (C4 on in Tilled Plants (D1	Living Roots (C3)	Secon	Idary Indicators (2 or more rewarder-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LF	2) magery (C9) RR A)
Primary India Surface High V Satura Sedim Sedim Sedim Sedim Inon D Surface Inunda Spars Seled Obser Surface Wate Vater Table Saturation P Sincludes cap	This soil profile m  Ary  Arology Indicators  Cators (minimum of  Ce Water (A1)  Water Table (A2)  Ation (A3)  Marks (B1)  Ment Deposits (B2)  Deposits (B3)  Mat or Crust (B4)  Deposits (B5)  Ce Soil Cracks (B6)  Ation Visible on Aerely Vegetated Concevations:  Per Present?  Present?  Present?  Present?	rial Imagery cave Surface Yes  Yes  Yes  Yes  Yes	ed; check all [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	that app   W   (e   Sa   Ad   Hy   O:   St   Of	pply)  /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates ydrogen Sulfide Oct ixidized Rhizospher resence of Reduce ecent Iron Reduction tunted or Stresses other (Explain in Ref	es (B9)  4A, and 4  s (B13) dor (C1) res along L d Iron (C4 on in Tilled Plants (D1 marks)	anatrix colors.  BB)  Living Roots (C3)  I Soils (C6)  I) (LRR A)	Secon	dary Indicators (2 or more re Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LF Frost-Heave Hummocks (D7	2) magery (C9) RR A)
Primary India Surface High V Satura Sedim Sedim Sedim Sedim Inon D Surface Inunda Spars Seled Obser Surface Wate Vater Table Saturation P Sincludes cap	This soil profile m  Ary  Arology Indicators  Cators (minimum of  Ce Water (A1)  Water Table (A2)  Ation (A3)  Marks (B1)  Ment Deposits (B2)  Deposits (B3)  Mat or Crust (B4)  Deposits (B5)  Ce Soil Cracks (B6)  Ation Visible on Aerely Vegetated Concevations:  Per Present?  Present?  Present?  Present?	rial Imagery cave Surface Yes  Yes  Yes  Yes  Yes	ed; check all [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	that app   W   (e   Sa   Ad   Hy   O:   St   Of	pply) /ater-Stained Leave except MLRA 1, 2, alt Crust (B11) quatic Invertebrates lydrogen Sulfide Octo exidized Rhizospher resence of Reduces excent Iron Reductio tunted or Stresses other (Explain in Res Depth (inches): Depth (inches):	es (B9)  4A, and 4  s (B13) dor (C1) res along L d Iron (C4 on in Tilled Plants (D1 marks)	anatrix colors.  BB)  Living Roots (C3)  I Soils (C6)  I) (LRR A)	Secon	dary Indicators (2 or more re Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2 Saturation Visible on Aerial I Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LF Frost-Heave Hummocks (D7	2) magery (C9) RR A)

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-19-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	TP 32	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>WM</u>	
Landform (hillslope, te	errace, etc.): <u>Hillslope</u>		Local	relief (conca	ve, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛚	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	, Soil □, or Hydrology [	☐, significa	ntly disturbed	? Are "N	Normal Circumstances" present	? Yes	⊠ No	
Are Vegetation ☐,	, Soil □, or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in R	emarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes	No 🛛	la 4h a Canna	lad Avan			
Hydric Soil Present?		Yes		ls the Sampl within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes	No 🛛					
	sap United (NK United) is located a							
three seg	ments, most of which are either cle	ar cut or fore	sted. Test Plo	t 32 is locate	d near bottom of ravine in the	northeast corner of the o	entral segr	ment.
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: <u>30' diameter</u> )	Absolute % Cover	Dominant Species?	Indicator <u>Status</u>	Dominance Test Workshee	t:		
1. Alnus rubra		15	<u>yes</u>	FAC	Number of Dominant Species	e		
2. Thuja plicata		<u>10</u>	<u>yes</u>	FACU	That Are OBL, FACW, or FA			(A)
3.		_			Total Number of Dominant			
4.		·			Species Across All Strata:	<u>6</u>		(B)
50% = <u>17.5</u> , 20% = <u>7</u>	,	35	= Total Cove	 r	Percent of Dominant Species	:		
	<u>m</u> (Plot size: <u>20' diameter</u> )	_			That Are OBL, FACW, or FA			(A/B)
Vaccinium parvifo		<u>10</u>	<u>yes</u>	FACU	Prevalence Index workshe	 et:		
2. Gaultheria shallo		<u>5</u>	<u>yes</u>	FACU	Total % Cover o	of: Multip	ly by:	
3	=	_			OBL species	x1 =	<del></del>	
4.		·			FACW species	x2 =		
5.					FAC species	x3 =		
50% = <u>7.5,</u> 20% = <u>3</u>		15	= Total Cove	 r	FACU species	x4 =		
Herb Stratum (Plot si	ize: 10' diameter)	_			UPL species	x5 =		
1. Polystichum mun	·	<u>20</u>	<u>yes</u>	FACU	•	_ (A)		(B)
Dryopteris expan	<del></del>	<u>15</u>		FACW	Column Totals:	(' ') ce Index = B/A =		(5)
3.	<u>3a</u>	10	<u>yes</u>	IAOW	Hydrophytic Vegetation Inc			
4.					☐ 1 – Rapid Test for Hyd			
5.					2 - Dominance Test is	. , .		
<u></u>								
6					☐ 3 - Prevalence Index is			
7						otations¹ (Provide suppo on a separate sheet)	rting	
8					_			
9					5 - Wetland Non-Vascu			
10					☐ Problematic Hydrophyt	ic Vegetation¹ (Explain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must	<del>i</del>	
50% = <u>17.5</u> , 20% = <u>7</u>	="	<u>35</u>	= Total Cove	r	be present, unless disturbed			
Woody Vine Stratum	(Plot size:)							
1					H. dan bed:			
2					Hydrophytic Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% =	: <u></u>		= Total Cove	r	Present?	- <b>ப</b>		-
% Bare Ground in He	erb Stratum <u>65</u>							
Remarks:	The hydrophytic vegetation criteria	is not met be	ecause there is	less than 50	)% dominance by FAC plant sp	ecies.		

Designation	nches)	Color (moist)	%		Color (m	nist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	– Texture			Remark	S		
### Secondary Indicators: Applicable to all LRRs, unless otherwise noted.)  ### Stripped Matrix (Se)	<u> </u>	<del></del>			00101 (	Uist <i>j</i>		1 300		-			I VOITIGE.	.5		
Secondary Indicators (A1)   Depleted Dark Surface (F1)   Depleted Dark Surface (F2)   Depleted Dark Surface (F3)   Depleted Dark Surface (F4)   Depleted Dark Surface (F5)   Depleted Dark Surface (F5)   Depleted Dark Surface (F6)   Depleted Dark Surface (F7)   Depleted Dark Surface (F6)   Depleted Dark Surface (F6)   Depleted Dark Surface (F6)   Depleted Dark Surface (F6)   Depleted Dark Surface (F7)   Depleted Dark Surface (F6)   Depleted Dark Surface (F7)   Depleted Dark Surface (F6)   Depleted Dark Surface (F6)   Depleted Dark Surface (F7)   Depleted Dark Surface (F6)   Depleted Dark Surface (F7)   Depleted Dark Surface (F6)   Depleted Dark Surface (F6)   Depleted Dark Surface (F7)   Depleted Dark Surface (F6)   Depleted Dark Surface (F6)   Depleted Dark S		'	· <u></u>			•										
Part   10   10   10   10   10   10   10   1	<u> </u>	·			-	•				<u> Mi                                   </u>	<u></u>					
ppe: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.	8-16	·			7.5YR 4	1/6	3			sandy lo	am	<u> </u>				
per C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.     PL=Pore Lining, M=Matrix, RC=Root Channel dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	<u>0-10</u>			<u></u>		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	<u>~</u>	<u>~</u>	<u></u>	<u> </u>	<u></u>					
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (Ar) Hydrogen Sulfide (Ad) Depleted Blark (F2) Depleted Martix (F2) Depleted Martix (F2) Depleted Martix (F2) Thick Dark Surface (Ar1) Depleted Martix (F2) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Depressions (F8)  ### Hydric Soils Present?  ### Pydric Soils Present?  #### Pydric Soils Pres				_		_					<u>gr -</u>	gravelly				
Histosol (Ar)   Sandy Redox (SS)   2 cm Muck (A10)   Sandy Redox Surface (TF12)   Sandy Mucky Mineral (F1) (except MLRA 1)   Very Shallow Dark Surface (TF12)   Sandy Mucky Mineral (S1)   Depleted Matrix (F2)   Other (Explain in Remarks)   Depleted Dark Surface (F6)   Sandy Mucky Mineral (S1)   Depleted Dark Surface (F7)   Sandy Mucky Mineral (S1)   Depleted Dark Surface (F7)   Sandy Mucky Mineral (S1)   Depleted Dark Surface (F7)   Sandy Mucky Mineral (S1)   Redox Depressions (F8)   Wetland hydrology must be present, unless disturbed or problematic.  ***Strictive Layer (if present):**  ***Decident Service (if present):**  ***Decident Service (if present):**  ***Decident Service (if present):**  **Decident Service (if present):**  **				_		-										
Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (Ar) Hydrogen Sulfide (Ad) Depleted Blark (F2) Depleted Martix (F2) Depleted Martix (F2) Depleted Martix (F2) Thick Dark Surface (Ar1) Depleted Martix (F2) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Depressions (F8)  ### Hydric Soils Present?  ### Pydric Soils Present?  #### Pydric Soils Pres	 ne: C= (	Concentration, D=De	eoletion,	— RM=Re	duced Ma	trix. CS=0	Covered or Co	ated Sand	Grains. <sup>2</sup> L	ocation: PL:	- Pore Linin	— a. M=Matrix,	RC=Roo	ot Chanr	nel	
Stripped Matrix (S6)	•	-	•													
Black Histic (A3)	Histos	sol (A1)				Sandy	Redox (S5)				2 cm Mu	uck (A10)				
Depleted Below Dark Surface (A11)	Histic	Epipedon (A2)				Strippe	ed Matrix (S6)				Red Par	rent Material	(TF2)			
Depleted Below Dark Surface (A11)	Black	Histic (A3)				Loamy	Mucky Miner	al (F1) <b>(ex</b>	cept MLRA 1)		Very Sh	allow Dark S	· Surface (T	F12)		
Depleted Below Dark Surface (A11)						_	-							,		
Thick Dark Surface (A12)	•	. ,	face (A1	11)		•		` ,		_	· · · · · ·	-Ap	,			
Sandy Mucky Mineral (S1)			•	,		-		•								
Sandy Gleyed Matrix (S4)						Deplet	ted Dark Surfa	ice (F7)								
strictive Layer (if present): pe:			•			-								nt,		
pth (inches):								<u>`                                    </u>		u	illess distu	ibed of prob	iciliatic.			
This soil profile meets none of the hydric soil indicators because of the high matrix colors.    Color	oe:															
This soil profile meets none of the hydric soil indicators because of the high matrix colors.    Color	pth (inch	es):							Undria Calla I	resent?		Yes		No		D
Secondary Indicators (or more required)  Surface Water (A1)	emarks:	This soil profile m	neets nor	ne of the	hydric so	il indicato	ors because of	the high m								
High Water Table (A2)	DROLOG	GY		ne of the	hydric so	il indicato	rs because of	the high m								
Saturation (A3)	DROLOG	GY ydrology Indicators	s:				rs because of	the high m			ndary Indica	ators (2 or m	ore requir	red)		
Water Marks (B1)	DROLOGetland Hy	GY ydrology Indicators licators (minimum of	s:		neck all tha	at apply)				Secon				red)		
Water Marks (B1)	DROLOG etland Hy imary Indi	GY ydrology Indicators licators (minimum of ace Water (A1)	s:		neck all tha	at apply) Water-	-Stained Leave	es (B9)	natrix colors.	Secon	Water-Stai	ned Leaves	(B9)	red)		
Sediment Deposits (B2)	DROLOG etland Hy imary Indi   Surfa   High	GY ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2)	s:		neck all tha	at apply) Water- (excep	-Stained Leave	es (B9)	natrix colors.	Secon	Water-Stair	ned Leaves (	(B9) <b>B)</b>	red)		
Drift Deposits (B3)	DROLOG etland Hy imary Indi ] Surfa ] High ] Satur	GY ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3)	s:		neck all tha	at apply) Water- (excep	-Stained Leave pt MLRA 1, 2, rust (B11)	es (B9) <b>4A, and 4</b>	natrix colors.	Secon	Water-Stair ( <b>MLRA 1, 2</b> Drainage P	ned Leaves ( 2, 4A, and 4) Patterns (B10	(B9) <b>B)</b>	red)		
Algal Mat or Crust (B4)	DROLOG etland Hy imary Indi ] Surfa ] High ] Satur ] Wate	GY ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1)	s:		neck all tha	at apply) Water- (excep Salt Ci Aquatic	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate:	es (B9) <b>4A, and 4</b> es (B13)	natrix colors.	Secon	Water-Stair (MLRA 1, 2 Drainage P Dry-Seasor	ned Leaves ( 2, 4A, and 4 Patterns (B10 n Water Tab	(B9) <b>B)</b> (b) (c) (d)		1)	
Iron Deposits (B5)	DROLOO etland Hy imary Indi   Surfa   High   Satur   Watee	GY ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2)	s:		neck all tha	at apply) Water- (excep Salt Cr Aquati Hydrog	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc	es (B9) <b>4A, and 4</b> es (B13) dor (C1)	natrix colors.	Secon	Water-Stair (MLRA 1, 2 Drainage F Dry-Seasor Saturation	ned Leaves ( 2, 4A, and 4l Patterns (B10 n Water Tabl Visible on A	(B9)  B)  I)  le (C2)  erial Imag		))	
Surface Soil Cracks (B6)	DROLOO fetland Hy rimary Indi Graph	GY ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3)	s:		neck all tha	at apply) Water- ( <b>excep</b> Salt Cr Aquatir Hydrog Oxidize	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc ed Rhizosphei	es (B9) 4A, and 4 es (B13) dor (C1) res along L	natrix colors.  BB)  Living Roots (C3	Secon	Water-Stain (MLRA 1, 2 Drainage P Dry-Season Saturation Geomorphi	ned Leaves ( 2, 4A, and 4l Patterns (B10 n Water Tab Visible on Ad ic Position (D	(B9)  B)  I)  le (C2)  erial Imag		))	
Inundation Visible on Aerial Imagery (B7)	/etland Hy rimary Indi Surfa High Satur Wate Sedir Drift I	gy ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3)	s:		neck all tha	at apply) Water- (excep Salt Ci Aquatii Hydroq Oxidizo	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate gen Sulfide Oc ed Rhizosphei nce of Reduce	es (B9)  4A, and 4 es (B13) dor (C1) eres along Led Iron (C4)	natrix colors.  BB)  Living Roots (C3)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac	ned Leaves ( 2, 4A, and 4l Patterns (B10 n Water Table Visible on Ae ic Position (D3)	(B9)  B)  I)  le (C2)  erial Imag		))	
Sparsely Vegetated Concave Surface (B8)    Sparsely Vegetated Concave Surface (B8)   Sparsely Vegetated Concave Surface (B8)   Sparsely Vegetated Concave Surface (B8)   Sparsely Vegetated Concave S	DROLOG (etland Hy rimary Indi ] Surfa ] High ] Satur ] Wate ] Sedir ] Drift I ] Algal	gy ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5)	s: one req		neck all tha	at apply) Water- (excep Salt Ci Aquati Hydrog Oxidize Preser Recen	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate gen Sulfide Oc ed Rhizosphei nce of Reduce at Iron Reduction	es (B9)  4A, and 4 es (B13) dor (C1) eres along Led Iron (C4) on in Tilled	BB) Living Roots (C3)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac	ned Leaves ( 2, 4A, and 4l Patterns (B10 n Water Tabl Visible on Ad ic Position (D quitard (D3) al Test (D5)	(B9)  B)  I)  Ile (C2)  Perial Imag  D2)	ery (C9	))	
eld Observations:  urface Water Present? Yes  No  Depth (inches): ater Table Present? Yes  No  Depth (inches):  sturation Present? Yes  No  Depth (inches):  uturation Present? Yes  No  Depth (inches):  studies capillary fringe) Yes  No  Depth (inches):	DROLOO etland Hy imary Indi   Surfa   High   Satur   Wate   Sedir   Drift I   Algal   Iron [	GY ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6)	s: fone req	quired; ch	neck all tha	at apply)  Water- (excep Salt Co Aquation Hydroo Oxidizo Preser Recen Stunte	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc ed Rhizosphei nce of Reduce at Iron Reduction	es (B9)  4A, and 4 es (B13) dor (C1) eres along Led Iron (C4) on in Tilled Plants (D1	BB) Living Roots (C3)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ned Leaves (2, 4A, and 4) Patterns (B10) In Water Table Visible on Actic Position (Equitard (D3) al Test (D5)	(B9)  B)  I)  Ide (C2)  Bi ide (C2)  Bi ide (C2)  Bi ide (C2)  Control of the con	ery (C9	))	
arface Water Present? Yes No Depth (inches):  ater Table Present? Yes No Depth (inches):  attraction Present? Yes No Depth (inches):   Wetland Hydrology Present? Yes No	DROLOO etland Hy imary Indi   Surfa   High   Satur   Wate   Sedir   Drift I   Algal   Iron I   Surfa	gy ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6) dation Visible on Aer	s: fone req	quired; ch	neck all tha	at apply)  Water- (excep Salt Co Aquation Hydroo Oxidizo Preser Recen Stunte	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc ed Rhizosphei nce of Reduce at Iron Reduction	es (B9)  4A, and 4 es (B13) dor (C1) eres along Led Iron (C4) on in Tilled Plants (D1	BB) Living Roots (C3)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ned Leaves (2, 4A, and 4) Patterns (B10) In Water Table Visible on Actic Position (Equitard (D3) al Test (D5)	(B9)  B)  I)  Ide (C2)  Bi ide (C2)  Bi ide (C2)  Bi ide (C2)  Control of the con	ery (C9	))	
ater Table Present? Yes \( \Boxed{\text{No}} \Boxed{\text{No}} \Boxed{\text{Depth (inches):}} \) aturation Present? Yes \( \Boxed{\text{No}} \Boxed{\text{No}} \Boxed{\text{Depth (inches):}} \) Cludes capillary fringe) Yes \( \Boxed{\text{No}} \Boxed{\text{No}} \Boxed{\text{Wetland Hydrology Present?}} \) Yes \( \Boxed{\text{No}} \Boxe	DROLOO etland Hy imary Indi ] Surfa ] High ] Satur ] Wate ] Sedir ] Drift I ] Algal ] Iron [ ] Surfa ] Inunc ] Spars	GY ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6) dation Visible on Aer sely Vegetated Conc	s: fone req	quired; ch	neck all tha	at apply)  Water- (excep Salt Co Aquation Hydroo Oxidizo Preser Recen Stunte	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc ed Rhizosphei nce of Reduce at Iron Reduction	es (B9)  4A, and 4 es (B13) dor (C1) eres along Led Iron (C4) on in Tilled Plants (D1	BB) Living Roots (C3)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ned Leaves (2, 4A, and 4) Patterns (B10) In Water Table Visible on Actic Position (Equitard (D3) al Test (D5)	(B9)  B)  I)  Ide (C2)  Bi ide (C2)  Bi ide (C2)  Bi ide (C2)  Control of the con	ery (C9	))	
aturation Present?  Yes No Depth (inches): Wetland Hydrology Present? Yes No	DROLOG  /etland Hy rimary Indi   Surfa   High   Satur   Wate   Sedir   Algal   Iron [   Surfa   Inunc   Spars   Sedir	gy ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6) dation Visible on Aer sely Vegetated Condervations:	s: one req	quired; ch	neck all tha	at apply) Water- (excep Salt Ci Aquatii Hydrog Oxidize Preser Recen Stunte Other	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc ed Rhizospher nce of Reduce at Iron Reduction ed or Stresses (Explain in Re	es (B9)  4A, and 4 es (B13) dor (C1) eres along Led Iron (C4) on in Tilled Plants (D1) emarks)	BB) Living Roots (C3)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ned Leaves (2, 4A, and 4) Patterns (B10) In Water Table Visible on Actic Position (Equitard (D3) al Test (D5)	(B9)  B)  I)  Ide (C2)  Bi ide (C2)  Bi ide (C2)  Bi ide (C2)  Control of the con	ery (C9	))	
cludes capillary fringe)  Yes	DROLOG etland Hy imary Indi ] Surfa ] High ] Satur ] Wate ] Sedir ] Drift I ] Iron [ ] Surfa ] Inunc ] Spars eld Obser	gy ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6) dation Visible on Aer sely Vegetated Concervations:	s: fone req rial Imag cave Sur	quired; ch	neck all that	at apply) Water- (excep Salt Ci Aquati Hydrog Oxidize Preser Recen Stunte Other	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc ed Rhizosphei nce of Reduce at Iron Reductie ed or Stresses (Explain in Re	es (B9)  4A, and 4 es (B13) dor (C1) eres along Led Iron (C4) on in Tilled Plants (D1 emarks)	BB) Living Roots (C3)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant	ned Leaves (2, 4A, and 4) Patterns (B10) In Water Table Visible on Actic Position (Equitard (D3) al Test (D5)	(B9)  B)  I)  Ide (C2)  Bi ide (C2)  Bi ide (C2)  Bi ide (C2)  Control of the con	ery (C9	))	
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	DROLOG  [etland Hy imary Indi ] Surfa ] High ] Satur ] Wate ] Sedir ] Drift I ] Iron [ ] Surfa ] Inunc ] Spars eld Obser urface Wa	gy ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6) dation Visible on Aer asely Vegetated Concervations: ater Present?	s: fone req rial Imag cave Sur	quired; ch	neck all that	at apply) Water- (excep Salt Ci Aquati Hydrog Oxidize Preser Recen Stunte Other	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc ed Rhizosphei nce of Reduce at Iron Reductie ed or Stresses (Explain in Re	es (B9)  4A, and 4 es (B13) dor (C1) eres along Led Iron (C4) on in Tilled Plants (D1 emarks)	BB) Living Roots (C3) d Soils (C6) LIVING (C6)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav	ned Leaves ( 2, 4A, and 4) Patterns (B10 In Water Table Visible on Action Position (Equitard (D3) al Test (D5) Mounds (D6) The Hummock	(B9)  B)  I)  Ide (C2)  Bi ide (C2)  Bi ide (C2)  Bi ide (C2)  Control of the con	(C9	,	
	DROLOG /etland Hy rimary Indi   Surfa   High   Satur   Wate   Sedir   Iron [   Surfa   Iron [   Spars   Inunc	gy ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6) dation Visible on Aer sely Vegetated Concervations: ater Present? Present?	s: f one req rial Imag cave Sur Yes Yes	gery (B7)	neck all that	at apply) Water- (excep Salt Ci Aquati Hydrog Oxidizi Preser Recen Stunte Other i	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc ed Rhizosphei nce of Reduce at Iron Reduction ed or Stresses (Explain in Re epth (inches):	es (B9)  4A, and 4 es (B13) dor (C1) res along Led Iron (C4) on in Tilled Plants (D1 emarks)	BB) Living Roots (C3) d Soils (C6) LIVING (C6)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav	ned Leaves ( 2, 4A, and 4) Patterns (B10 In Water Table Visible on Action Position (Equitard (D3) al Test (D5) Mounds (D6) The Hummock	(B9)  B)  Ile (C2)  erial Imag  (D2)  (LRR A  s (D7)	(C9	,	
	DROLOG /etland Hy rimary Indi Surfa High Satur Sedir Sedir Inunc Spars ield Obser urface Wa /ater Table aturation F	gy ydrology Indicators licators (minimum of ace Water (A1) Water Table (A2) ration (A3) er Marks (B1) ment Deposits (B2) Deposits (B3) I Mat or Crust (B4) Deposits (B5) ace Soil Cracks (B6) dation Visible on Aer sely Vegetated Concervations: ater Present? e Present? Present?	s: fone req rial Imag cave Sur Yes Yes Yes	gery (B7) Inface (B8	neck all that	at apply) Water- (excep Salt Ci Aquati Hydrog Oxidizi Preser Recen Stunte Other i	-Stained Leave pt MLRA 1, 2, rust (B11) ic Invertebrate: gen Sulfide Oc ed Rhizosphei nce of Reduce at Iron Reductic ed or Stresses (Explain in Re epth (inches): epth (inches):	es (B9)  4A, and 4 es (B13) dor (C1) eres along Led Iron (C4) on in Tilled Plants (D1 emarks)	BB) Living Roots (C3) I Soils (C6) I) (LRR A)	Secon	Water-Stain (MLRA 1, 2 Drainage F Dry-Season Saturation Geomorphi Shallow Ac FAC-Neutr Raised Ant Frost-Heav	ned Leaves ( 2, 4A, and 4) Patterns (B10 In Water Table Visible on Action Position (Equitard (D3) al Test (D5) Mounds (D6) The Hummock	(B9)  B)  Ile (C2)  erial Imag  (D2)  (LRR A  s (D7)	(C9	,	

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-19-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 33</u>	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>WM</u>	
Landform (hillslope, te	errace, etc.): <u>Hillslope</u>		Local	relief (conca	ve, convex, none): <u>convex</u>	Slope	: (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI cla	ssification: None		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	, Soil □, or Hydrology [	☐, significa	antly disturbed	? Are "N	Normal Circumstances" presen	t? Yes	☑ No	
Are Vegetation ,	, Soil □, or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in R	.emarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🛛					
Hydric Soil Present?		Yes 🗌		ls the Sampl within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlem	neyer Road and	d Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided	into
	ments, most of which are either cle							
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: 30' diameter)	Absolute	Dominant	Indicator	Dominance Test Workshee	et:		
1. Thuja plicata		<u>% Cover</u> 20	Species? yes	Status FACU	Number of Demission of Consis	_		
Prunus emargina	ıta	<u>10</u>	<u>yes</u>	FACU	Number of Dominant Specie That Are OBL, FACW, or FA			(A)
3	<u>.u</u>	<u>10</u>	<u>700</u>	17100	Total Number of Dominant			
4.					Species Across All Strata:	<u>5</u>		(B)
50% = <u>15</u> , 20% = <u>6</u>		30	= Total Cove		Dorgant of Dominant Species			
	m (Plot size: <u>20' diameter</u> )	<u>55</u>			Percent of Dominant Species That Are OBL, FACW, or FA			(A/B)
1					Prevalence Index workshe	 et:		
2.					Total % Cover of		lv bv:	
3					OBL species	x1 =	<u> </u>	
4.					FACW species	x2 =	·	
5.					FAC species	x3 =	·	
50% =, 20% =	:		= Total Cove	 r	FACU species	_ x4 =	' <u></u> '	
Herb Stratum (Plot si					UPL species	- x5 =	·	
1. Polystichum mun	·	<u>5</u>	<u>yes</u>	FACU		_ (A)		(B)
Dryopteris expan	<del></del>	<u>5</u>		FACW	Column Totals:	(^) ce Index = B/A =		(0)
	<u>sa</u>		<u>yes</u>					
3. <u>Trillium ovatum</u> 4.		<u>5</u>	<u>yes</u>	<u>FACU</u>	Hydrophytic Vegetation Inc  1 – Rapid Test for Hyd			
5.					l <u>—                                     </u>			
<u> </u>								
6					☐ 3 - Prevalence Index is	<del>-</del>		
7						otations¹ (Provide suppo on a separate sheet)	rting	
8					_			
9					5 - Wetland Non-Vascu			
10					☐ Problematic Hydrophyt	ic Vegetation¹ (Explain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must		
50% = <u>7.5,</u> 20% = <u>3</u>		<u>15</u>	= Total Cove	r	be present, unless disturbed			
Woody Vine Stratum	(Plot size:)							
1					Ludranhutia			
2					Hydrophytic Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% =	·		= Total Cove	r	Present?	_		_
% Bare Ground in He	erb Stratum <u>85</u>							
Remarks:	The hydrophytic vegetation criteria	is not met be	ecause there is	s less than 50	)% dominance by FAC plant sp	ecies.		

SOIL Sampling Point: TP 33 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 3/3 silt loam 0-7 100 7-16 10YR 4/6 <u>50</u> sa silt loam 10YR 5/4 <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site: <u>N</u>	NK United			City/Count	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	<u>10-19-2</u>	<u>23</u>
Applicant/Owner: <u>F</u>	<u>Raydient</u>				State: WA	Sampling Point:	<u>TP 34</u>	
Investigator(s): <u>J</u>	J. Bartlett, M. Mill				Section, Township, Ra	ange: <u>S 31 T 27 N R 2</u>	<u>EWM</u>	
Landform (hillslope, terra	ace, etc.): <u>Hillslope</u>		Local	relief (conca	ave, convex, none): convex	Slop	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum:		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	-15% slopes			NWI cla	assification: <u>None</u>		
Are climatic / hydrologic	conditions on the site typical for	this time of y	ear? Ye	s 🛛	No [ (If no, explain	n in Remarks.)		
Are Vegetation □,	Soil □, or Hydrology [	☐, significa	antly disturbed?	Are "N	Normal Circumstances" preser	nt? Yes	⊠ No	o 🗆
Are Vegetation □,	Soil □, or Hydrology [	☐, naturally	y problematic?	(If nee	eded, explain any answers in F	Remarks.)		
SUMMARY OF FIND	NGS – Attach site map sh	owing sam	pling point	ocations,	transects, important feat	ures, etc.		
Hydrophytic Vegetation I	•	Yes 🏻	No 🗆			,		
Hydric Soil Present?		Yes 🗆	No M	s the Samp		Yes	□ No	o 🛛
Wetland Hydrology Pres	sent?	Yes 🗆	No ⊠	within a Wet	iland?			
, ,,								
	p United (NK United) is located a ents, most of which are either cle							ed into
unee segme	ents, most of which are either de	ai cui oi iore	steu. Test Flo	1 34 15 100416	d above the harvested lorest a	area in the central segm	ent.	
VEGETATION - Use	scientific names of plants							
Tree Stratum (Plot size	e: 30' diameter)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Workshe	et:		
1		70 COVEL	оресіез:	Otatus	Number of Deminent Specie	20		
2.					Number of Dominant Specie That Are OBL, FACW, or FA			(A)
3.					Tatal Niverban of Danis and			
4.					Total Number of Dominant Species Across All Strata:	<u>3</u>		(B)
50% =, 20% =			- Total Cava	.—				
			= Total Cover		Percent of Dominant Specie That Are OBL, FACW, or FA			(A/B)
	(Plot size: 20' diameter)	0.5		<b>5</b> 40				
1. Rubus spectabilis		<u>35</u>	<u>yes</u>	<u>FAC</u>	Prevalence Index workshe			
2. <u>Vaccinium parvifoliu</u>		<u>5</u>	<u>no</u>	<u>FACU</u>	Total % Cover	<u> </u>	oly by:	
3. <u>Oemleria cerasiforn</u>	<u>mis</u>	<u>5</u>	<u>no</u>	<u>FACU</u>	OBL species	x1 =		•
4					FACW species	x2 =		
5					FAC species	x3 =		
50% = <u>22.5</u> , 20% = <u>9</u>		<u>45</u>	= Total Cover	r	FACU species	x4 =		•
Herb Stratum (Plot size	e: <u>10' diameter</u> )				UPL species	x5 =		_
1. Polystichum munitu	<u>um</u>	<u>10</u>	<u>yes</u>	FACU	Column Totals:	(A)		_(B)
2. <u>Dryopteris expansa</u>	1	<u>5</u>	yes	FACW		ce Index = B/A =		
3.	=	_			Hydrophytic Vegetation In	·		
4.					☐ 1 – Rapid Test for Hyd			
5					<ul><li>□ 1 - Rapid Test for Flys</li><li>□ 2 - Dominance Test is</li></ul>	. , .		
6					☐ 3 - Prevalence Index is	s <u>&lt;</u> 3.0¹		
7						ptations1 (Provide suppo	orting	
8					data in Remarks or	on a separate sheet)		
9					☐ 5 - Wetland Non-Vasc	ular Plants <sup>1</sup>		
10					☐ Problematic Hydrophy	rtic Vegetation¹ (Explain)	)	
11								
50% = <u>7.5</u> , 20% = <u>3</u>		<u>15</u>	= Total Cover	r	<sup>1</sup> Indicators of hydric soil and be present, unless disturbed		t	
Woody Vine Stratum (P	Plot size:)				be present, unless disturbed	TOI problematic.		
1.								
2.					Hydrophytic			
50% = , 20% =			= Total Cover		Vegetation	Yes	No	$\boxtimes$
			- Total Cove		Present?			
% Bare Ground in Herb								
Remarks: Th	he hydrophytic vegetation criteria	is not met be	ecause there is	less than 50	)% dominance by FAC and FA	CW plant species.		
1								

SOIL Sampling Point: TP 34 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 3/3 silt loam 0-7 100 7-16 10YR 5/6 <u>50</u> silt loam 10YR 3/1 <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Coun	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	<u>10-1</u>	19-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	TP 3	<u>35</u>	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Ra	ange: <u>S 31 T 27 N F</u>	R 2 EWM		
Landform (hillslope, ter	rrace, etc.): <u>Hillslope</u>		Loc	cal relief (conc	ave, convex, none): convex	<u>(</u> S	Slope (%):	<u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	<u>—</u>		Long:	Datur	m:		
Soil Map Unit Name:	Poulsbo gravelly sandy loam	ı <u>, 615% slope</u>	<u>s</u>		NWI cl	assification: Non	<u>ıe</u>		
Are climatic / hydrologi	ic conditions on the site typical	for this time of	year?	Yes 🛚	No 🔲 (If no, explai	n in Remarks.)			
Are Vegetation □,	Soil ☐, or Hydrology	☐, signifi	cantly disturbe	ed? Are "	Normal Circumstances" prese	nt? Y	es 🛚	No	
Are Vegetation □,	Soil ☐, or Hydrology	☐, natura	Ily problemati	c? (If ne	eded, explain any answers in	Remarks.)			
	DINGS – Attach site map			t locations,	transects, important fea	tures, etc.			
Hydrophytic Vegetation	n Present?	Yes		Is the Samp	alad Araa				
Hydric Soil Present?		Yes [		within a We		Y	es 🗆	No	$\boxtimes$
Wetland Hydrology Pre	esent?	Yes [	No ⊠						
	ap United (NK United) is locate								into
three segr	ments, most of which are either	clear cut or fo	rested. Test F	Plot 35 is locate	ed on the mapped stream in th	e central segment in	a clearcut	t.	
VEGETATION - Use	e scientific names of plan				T				
Tree Stratum (Plot siz	ze: <u>30' diameter</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Workshe	et:			
1		<u>70 00101</u>	<u> </u>		Number of Dominant Speci	es .			
2					That Are OBL, FACW, or F				(A)
3					Total Number of Dominant	_			
4					Species Across All Strata:	<u>5</u>			(B)
50% =, 20% =			= Total Co	ver	Percent of Dominant Specie	es .	•		(4 (5)
Sapling/Shrub Stratur	m (Plot size: <u>20' diameter</u> )				That Are OBL, FACW, or FA		<u>0</u>		(A/B)
1. Sambucus racem	<u>osa</u>	<u>15</u>	yes	FACU	Prevalence Index worksh	eet:			
2. Cytisus scoparius	<u>1</u>	<u>10</u>	yes	<u>UPL</u>	Total % Cover	of: N	Multiply by:		
3. <u>Pseudotsuga mer</u>	<u>nziesi</u>	<u>10</u>	<u>yes</u>	<u>FACU</u>	OBL species	x	1 =		
4. Rubus armeniacu	<u>IS</u>	<u>10</u>	yes	FAC	FACW species	x	2 =		
5. Ribes sanguineun	<u>n</u>	<u>5</u>	<u>no</u>	<u>FACU</u>	FAC species	x	3 =		
50% = <u>25,</u> 20% = <u>10</u>		<u>50</u>	= Total Co	ver	FACU species	x	4 =		
Herb Stratum (Plot siz	ze: 10' diameter)				UPL species	X	5 =		
1. Holcus lanatus		<u>50</u>	<u>yes</u>	FAC	Column Totals:	(A)			(B)
Cirsium vulgare		<u>15</u>	no no	FACU		nce Index = B/A =			(=)
Chamaenerion an	naustifolium	<u>10</u> 10	no no	FACU	Hydrophytic Vegetation In				
4. Galium aparine	<u>igastrionarri</u>	<u>10</u> 10	no no	FACU	☐ 1 – Rapid Test for Hy				
5. <u>Digitalis purpurea</u>	,	<u>10</u> 5	no no	FACU	☐ 2 - Dominance Test is				
6. Rubus ursinus	•			FACU					
		<u>5</u>	<u>no</u>	TACO	☐ 3 - Prevalence Index				
7 8.					4 - Morphological Ada	aptations¹ (Provide su r on a separate shee			
					_		-7		
9					5 - Wetland Non-Vaso				
10					☐ Problematic Hydrophy	tic Vegetation¹ (Exp	lain)		
11	0	05			<sup>1</sup> Indicators of hydric soil and	d wetland hydrology	must		
50% = <u>47.5</u> , 20% = <u>19</u>		<u>95</u>	= Total Co	ver	be present, unless disturbe				
Woody Vine Stratum	(Plot size:)								
1					Hydrophytic				
2					Vegetation	Yes 🗆	No	)	$\boxtimes$
50% =, 20% =			= Total Co	ver	Present?	_			_
% Bare Ground in He	rb Stratum <u>5</u>								
Remarks:	The hydrophytic vegetation crit	eria is not met	because there	e is less than 5	0% dominance by FAC plant s	species.			
1									

SOIL Sampling Point: TP 35 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/1 100 silt loam 0-1 <u>1-3</u> 10YR 2/2 100 silt loam 3-7 10YR 3/3 100 silt loam 7-16 10YR 5/4 10YR 4/6 C 90 10 M silt loam <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) П Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site: NK Unite	<u>əd</u>			City/Coun	ty: <u>Poulsbo/Kitsap</u>	Sampling Da	ite: <u>1</u>	<u>0-19-23</u>	
Applicant/Owner: Raydient	<u>t</u>				State: <u>W</u>	<u>/A</u> Sampling Po	int: <u>T</u>	P 36	
Investigator(s): <u>J. Bartlet</u>	tt, M. Mill				Section, Township	o, Range: <u>S 31 T 2</u>	7 N R 2 EWI	M	
Landform (hillslope, terrace, etc.	.): <u>Hillslope</u>		Local	relief (conca	ave, convex, none): <u>cor</u>	nvex	Slope (%	o): <u>5</u>	
Subregion (LRR): MLRA	<u>2</u>	Lat:	_		Long:	D	atum:	_	
Soil Map Unit Name: Poulsb	o gravelly sandy loam, 6-	15% slopes			NV	VI classification:	<u>None</u>		
Are climatic / hydrologic condition	ons on the site typical for	this time of y	ear? Ye	es 🛚	No ☐ (If no, ex	plain in Remarks.)			
Are Vegetation ☐, Soil	☐, or Hydrology [	☐, significa	antly disturbed	? Are "l	Normal Circumstances" pro	esent?	Yes 🗵	] No	
Are Vegetation ☐, Soil	☐, or Hydrology [	☐, naturall	y problematic?	(If ne	eded, explain any answers	s in Remarks.)			
SUMMARY OF FINDINGS -	- Attach site map sh	owing sam	pling point	locations,	transects, important	features, etc.			
Hydrophytic Vegetation Present	•	Yes 🗆	No ⊠		, ,	,			
Hydric Soil Present?		Yes 🗆	No M	ls the Samp			Yes 🗆	] No	$\boxtimes$
Wetland Hydrology Present?		Yes 🗆	No ⊠	within a We	tland?				
, 0,									
					between Poulsbo and Kired near the mapped stream			divided	into
unee segments, mo	ost of which are either cle	ar cut or lore	steu. Test Fio	ol 30 is iocale	u near the mapped stream	ii iii iile ceniiai segn	nent.		
VEGETATION - Use scienti	ific names of plants				T				
Tree Stratum (Plot size: 30' dia	<u>ımeter</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Work	sheet:			
1		70 00V0I	ороско.	Otatao	Number of Dominant Sp	necies			
2.					That Are OBL, FACW, of		<u>1</u>		(A)
3.					Total Number of Domina	ont			
4.					Species Across All Strat		<u>5</u>		(B)
50% =, 20% =			= Total Cove						
Sapling/Shrub Stratum (Plot siz	zo: 20' diameter)		- Total Cove	ı	Percent of Dominant Sp That Are OBL, FACW, or		<u>20</u>		(A/B)
	ze. <u>20 diameter</u> )	00		LIDI	· · · · · ·				
1. <u>Cytisus scoparius</u>		<u>20</u>	<u>yes</u>	<u>UPL</u>	Prevalence Index work				
2. <u>Pseudotsuga menziesi</u>		<u>10</u>	<u>yes</u>	<u>FACU</u>	Total % Co	over of:	Multiply b	<u>)γ:</u>	
3. <u>Prunus emarginata</u>		<u>5</u>	<u>no</u>	<u>FACU</u>	OBL species		x1 = _		
4. Rubus laciniatus		<u>5</u>	<u>no</u>	FACU	FACW species		x2 =		
5. <u>Rubus leucodermis</u>		<u>5</u>	<u>no</u>	<u>FACU</u>	FAC species		x3 =		
50% = <u>22.5</u> , 20% = <u>9</u>		<u>45</u>	= Total Cove	r	FACU species		x4 =		
Herb Stratum (Plot size: 10' dia	ameter)				UPL species		x5 =		
1. Rubus ursinus		<u>25</u>	<u>yes</u>	<u>FACU</u>	Column Totals:	(A)	-	(	(B)
2. Holcus lanatus		<u>25</u>	<u>yes</u>	FAC	Prev	alence Index = B/A	=		
3. Polystichum munitum		20	<u>yes</u>	FACU	Hydrophytic Vegetatio	n Indicators:			
4. Pteridium aquilinum		<u>15</u>	<u>no</u>	FACU	☐ 1 – Rapid Test for	Hydrophytic Vegeta	ation		
5. Digitalis purpurea		<u>10</u>	no	FACU	2 - Dominance Te	est is >50%			
Chamaenerion angustifoliu	ım	<u>10</u>	no	FACU		lov io <2 01			
7. Anaphalis margaritacea	<u></u>		<del></del>			<del>-</del>			
		<u>5</u>	<u>no</u>	<u>FACU</u>		Adaptations <sup>1</sup> (Provides or on a separate s		g	
8					l <u> </u>				
9					5 - Wetland Non-\	ascular Plants			
10				—	☐ Problematic Hydro	ophytic Vegetation¹ (	(Explain)		
11					<sup>1</sup> Indicators of hydric soil	and wotland hydrol	oav muet		
50% = <u>55</u> , 20% = <u>22</u>		<u>110</u>	= Total Cove	r	be present, unless distu				
Woody Vine Stratum (Plot size	:)								
1									
2					Hydrophytic	V	7	NI-	<b>1</b> 21
50% =, 20% =			= Total Cove	r	Vegetation Present?	Yes	J	No	$\boxtimes$
% Bare Ground in Herb Stratur	m 0				1 1000iici				
The budge	_	is not met h	ecause there is	s less than 50	I 0% dominance by FAC pla	ant species			
Remarks:	. , .				, ,	•			

Depth	Matrix					Redox Feat	tures		<u></u>					
nches)	Color (moist)	%		Color (mo	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	e		Remarks	;	
<u>0-1</u>	10YR 2/1	<u>100</u>	!		•				silt lo	<u> </u>	_			
<u>1-8</u>	10YR 3/4	<u>100</u>	!		•				silt lo	<u> </u>	-			
<u>8-16</u>	10YR 6/2	<u>95</u>		10YR 4/	<u>/6</u>	<u>5</u>	<u>C</u>	<u>M</u>	gravel	oam	_			
			_							- —	=			
			_								_			
		-	_											
			_								_			
ne: C= C	oncentration, D=De	epletion F	– ≀M=Redu	ced Mat	rix CS=C	Covered or Co	ated Sand	d Grains	l ocation: PI	 _=Pore Lining,	– M=Matrix F	RC=Root	Channel	ı
-	Indicators: (Applie	-								icators for Pr				
	sol (A1)		,			Redox (S5)				2 cm Muc		,		
	Epipedon (A2)				=	ed Matrix (S6)					nt Material (	TF2)		
Black	Histic (A3)				Loamy	Mucky Miner	al (F1) <b>(ex</b>	cept MLRA 1	) 🗆	Very Shal	low Dark Su	ırface (TF	<del>-</del> 12)	
Hydro	gen Sulfide (A4)				Loamy	Gleyed Matri	x (F2)			Other (Ex	plain in Rem	narks)		
Deple	ted Below Dark Sur	face (A11	)		Deplete	ed Matrix (F3)	)							
Thick	Dark Surface (A12)	)			Redox	Dark Surface	(F6)							
Sandy	/ Mucky Mineral (S1	i)			Deplete	ed Dark Surfa	ice (F7)			dicators of hyd				
Sandy	Gleyed Matrix (S4)	)			Redox	Depressions	(F8)			wetland hydro unless disturb			Ι,	
strictive	Layer (if present):										•			
e:														
oth (inche	es):							Hydric Soils	Present?		Yes		No	- 1
emarks:	This soil profile m	eets none	of the h	/dric soi	l indicator	rs because of	the high n	natrix colors.						
DROLO(	GY .		of the h	ydric soi	l indicator	s because of	the high n	natrix colors.						
OROLOG	GY drology Indicators	S:				rs because of	the high n	natrix colors.	Saac				-4\	
DROLOG etland Hy mary Indi	GY drology Indicators cators (minimum of	S:		ck all tha	at apply)			natrix colors.		ondary Indicate	•	-	ed)	
PROLOG Itland Hy mary Indi Surfa	GY rdrology Indicators cators (minimum of ce Water (A1)	S:			at apply) Water-:	Stained Leave	es (B9)		Seco	Water-Staine	ed Leaves (E	39)	ed)	
ROLOG tland Hy nary Indi Surfa High <sup>1</sup>	drology Indicators cators (minimum of ce Water (A1) Water Table (A2)	S:		ck all tha	at apply) Water (excep	Stained Leave	es (B9)			Water-Staine	d Leaves (E	39) )	ed)	
ROLOG tland Hy nary Indi Surfa High <sup>1</sup> Satur	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3)	S:		ck all tha	at apply) Water- (excep Salt Cr	Stained Leave of MLRA 1, 2, rust (B11)	es (B9) <b>4A</b> , and 4			Water-Staine (MLRA 1, 2, Drainage Pat	ed Leaves (E 4A, and 4B tterns (B10)	39) <b>)</b>	ed)	
ROLOG tland Hy nary Indi Surfa High Satur Water	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1)	S:		ck all tha	at apply) Water (excep Salt Cr Aquatio	Stained Leave of <b>MLRA 1, 2,</b> rust (B11) c Invertebrate	es (B9) <b>4A, and 4</b> s (B13)			Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season	d Leaves (E  4A, and 4B  tterns (B10)  Water Table	39) )		
ROLOG tland Hy mary Indi Surfa High ' Satur Water Sedin	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2)	S:		ck all tha	at apply)  Water (excep Salt Cr Aquatio Hydrog	Stained Leave of <b>MLRA 1, 2,</b> rust (B11) c Invertebrate gen Sulfide Oc	es (B9) <b>4A, and 4</b> s (B13) dor (C1)	<b>4</b> B)	0	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi	d Leaves (E  4A, and 4B  tterns (B10)  Water Table  sible on Aer	(C2) idal Image		
ROLOG tland Hy mary Indi Surfa High ' Satur Water Sedin Drift I	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3)	S:		ck all tha	at apply) Water-: (excep Salt Cr Aquatio Hydrog Oxidize	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe	es (B9) <b>4A, and 4</b> s (B13)  dor (C1)  res along	<b>4B)</b> Living Roots (0		Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic	d Leaves (E  4A, and 4B, tterns (B10)  Water Table sible on Aer Position (D2)	(C2) idal Image		
PROLOG stland Hy mary Indi Surfa High Satur Water Sedin Drift [	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	S:		ck all tha	at apply) Water (excep Salt Cr Aquatic Hydrog Oxidize Presen	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4	<b>4B)</b> Living Roots (0	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui	d Leaves (E  4A, and 4B  tterns (B10)  Water Table  sible on Aer  Position (D2  tard (D3)	(C2) idal Image		
PROLOG etland Hy mary Indi Surfa High Satur Water Sedin Drift I Algal Iron I	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	s: one requi		ck all tha	at apply) Water- (excep Salt Cr Aquatic Hydrog Oxidize Presen Recent	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tilled	Living Roots (G	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral	d Leaves (E  4A, and 4B, tterns (B10)  Water Table sible on Aer Position (D2 ttard (D3)  Test (D5)	(C2) idal Image	ery (C9)	
DROLOG htland Hy mary Indi Surfa High Satur Water Sedin Drift I Algal Iron I Surfa	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6)	s: one requi	ired; ched	ck all tha	at apply)  Water-i (excep Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce t Iron Reductid d or Stresses	es (B9)  4A, and 4  s (B13) dor (C1) res along led Iron (C4 on in Tillec	Living Roots (G	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E 4A, and 4B, tterns (B10) Water Table sible on Aer Position (D2 tard (D3) Test (D5) founds (D6)	(C2) ial Image	ery (C9)	
DROLOG etland Hy mary Indi Surfa High ' Satur Water Sedin Drift [ Algal Iron [ Surfa Inund	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6)	s: one requi	ired; chec	ck all tha	at apply)  Water-i (excep Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce	es (B9)  4A, and 4  s (B13) dor (C1) res along led Iron (C4 on in Tillec	Living Roots (G	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral	d Leaves (E 4A, and 4B, tterns (B10) Water Table sible on Aer Position (D2 tard (D3) Test (D5) founds (D6)	(C2) ial Image	ery (C9)	
PROLOG etland Hy mary Indi Surfa High ' Satur Water Sedin Drift I Algal Iron I Surfa Inund Spars	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aeresely Vegetated Con	s: one requi	ired; chec	ck all tha	at apply)  Water-i (excep Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce t Iron Reductid d or Stresses	es (B9)  4A, and 4  s (B13) dor (C1) res along led Iron (C4 on in Tillec	Living Roots (G	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E 4A, and 4B, tterns (B10) Water Table sible on Aer Position (D2 tard (D3) Test (D5) founds (D6)	(C2) ial Image	ery (C9)	
PROLOG etland Hy mary Indi Surfa High Satur Water Sedin Drift I Algal Iron I Surfa Inund Spars	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aer sely Vegetated Concretions:	s: one requi	ired; chec ery (B7) ace (B8)	ck all tha	at apply) Water (excep Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted Other (	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce t Iron Reductie d or Stresses	es (B9)  4A, and 4  s (B13) dor (C1) res along led Iron (C4 on in Tillec	Living Roots (G	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E 4A, and 4B, tterns (B10) Water Table sible on Aer Position (D2 tard (D3) Test (D5) founds (D6)	(C2) ial Image	ery (C9)	
PROLOG tland Hy mary Indi Surfa High Satur Water Sedin Drift I Algal Iron I Surfa Inund Spars Id Obser	drology Indicators cators (minimum of ce Water (A1)) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aeresely Vegetated Concretations: ter Present?	s: fone requirer requ	ired; ched	ck all tha	at apply) Water- (excep Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted Other (	Stained Leave MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce t Iron Reducti d or Stresses (Explain in Re	es (B9)  4A, and 4  s (B13) dor (C1) res along led Iron (C4 on in Tillec	Living Roots (G	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E 4A, and 4B, tterns (B10) Water Table sible on Aer Position (D2 tard (D3) Test (D5) founds (D6)	(C2) ial Image	ery (C9)	
PROLOG  Itland Hy mary Indi Surfa- High Satur. Water Sedin Drift [ Algal Iron [ Surfa- Inund Spars- Id Obser rface Water Table	rdrology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aerology reactions: ter Present?	rial Image cave Surfa Yes [	ired; chec ery (B7) ace (B8)	ck all tha	at apply) Water (excep Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted Other (	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce t Iron Reductie d or Stresses	es (B9)  4A, and 4  s (B13) dor (C1) res along led Iron (C4 on in Tillec	Living Roots (0 1) d Soils (C6) 1) (LRR A)	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	d Leaves (E  4A, and 4B, tterns (B10) Water Table sible on Aer Position (D2 tard (D3) Test (D5) dounds (D6) Hummocks	(C2) ial Image	ery (C9)	0
DROLOG etland Hy mary Indi Surfa High \ Satur. Water Sedin Drift [ Algal Iron [ Surfa Inund Spars eld Obser rface Wat ater Table turation P cludes ca	drology Indicators cators (minimum of ce Water (A1)) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aersely Vegetated Contractions: ter Present?	rial Image cave Surfa Yes [ Yes [ Yes [	ery (B7) ace (B8) No	ck all tha	at apply) Water-i (excep Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted Other (	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce t Iron Reducti d or Stresses (Explain in Re	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tillec Plants (D' emarks)	Living Roots (Cl.) d Soils (C6) 1) (LRR A)	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	d Leaves (E  4A, and 4B, tterns (B10) Water Table sible on Aer Position (D2 tard (D3) Test (D5) dounds (D6) Hummocks	(C2) ial Image (luncolor) (LRR A)	ery (C9)	0
DROLOG etland Hy mary Indi Surfa High \ Satur. Water Sedin Drift [ Algal Iron [ Surfa Inund Spars eld Obser rface Wat ater Table turation P cludes ca	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aeresely Vegetated Concretions: ter Present? Present? Present?	rial Image cave Surfa Yes [ Yes [ Yes [	ery (B7) ace (B8) No	ck all tha	at apply) Water-i (excep Salt Cr Aquatic Hydrog Oxidize Presen Recent Stunted Other (	Stained Leave of MLRA 1, 2, rust (B11) c Invertebrate gen Sulfide Oc ed Rhizosphe nce of Reduce t Iron Reducti d or Stresses (Explain in Re	es (B9)  4A, and 4 s (B13) dor (C1) res along led Iron (C4 on in Tillec Plants (D' emarks)	Living Roots (Cl.) d Soils (C6) 1) (LRR A)	C3)	Water-Staine (MLRA 1, 2, Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	d Leaves (E  4A, and 4B, tterns (B10) Water Table sible on Aer Position (D2 tard (D3) Test (D5) dounds (D6) Hummocks	(C2) ial Image (luncolor) (LRR A)	ery (C9)	0

Project Site:	NK United			City/Count	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-19-23
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 37</u>
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>EWM</u>
Landform (hillslope, te	errace, etc.): <u>Hillslope</u>		Loca	I relief (conca	ave, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _	
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6	15% slopes	<u>i</u>		NWI cla	ssification: <u>None</u>	
Are climatic / hydrolog	gic conditions on the site typical for	this time of y	rear? Ye	es 🛛	No [ (If no, explain	in Remarks.)	
Are Vegetation ☐,	, Soil □, or Hydrology	☐, signification	antly disturbed	? Are "N	Normal Circumstances" present	t? Yes	⊠ No □
Are Vegetation ☐,	, Soil □, or Hydrology	☐, naturall	y problematic?	(If nee	eded, explain any answers in R	emarks.)	
SUMMARY OF FIN	IDINGS – Attach site map sh	owing san	pling point	locations,	transects, important feat	ures, etc.	
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🛛		L. J.A.		
Hydric Soil Present?		Yes 🗌		Is the Samp within a Wet		Yes	□ No ⊠
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛				
Remarks: North Kits	sap United (NK United) is located a	along Stottlen	neyer Road an	d Bond Road	between Poulsbo and Kingsto	n. The site is large so v	was divided into
three seg	ments, most of which are either cle	ear cut or fore	ested. Test Plo	ot 37 is locate	ed in the mapped stream chann	el in the central segmer	nt.
VEGETATION - Us	e scientific names of plants						
Tree Stratum (Plot size	ze: 30' diameter)	Absolute	Dominant	Indicator	Dominance Test Workshee	et:	
1		% Cover	Species?	<u>Status</u>	Normalis and Demails and Consider	_	
2.					Number of Dominant Species That Are OBL, FACW, or FA		(A)
3.					Tatal Nameh and Damain and		
4.					Total Number of Dominant Species Across All Strata:	<u>4</u>	(B)
50% =, 20% =	:		= Total Cove		Developt of Deminent Charles	_	
	ım (Plot size: <u>20' diameter</u> )		- rotal cove	'!	Percent of Dominant Species That Are OBL, FACW, or FA		(A/B
Pseudotsuga mel	<del></del>	<u>10</u>	<u>yes</u>	FACU	Prevalence Index workshe		
2	1121001	10	<u>ycs</u>	17100	Total % Cover of		oly by:
3					OBL species	<u>watt</u> x1 =	<u>лу Бу.</u>
4					FACW species	x2 =	
5.					FAC species	_ x3 =	
50% = <u>5</u> , 20% = <u>2</u>		10	= Total Cove		FACU species	_ x4 =	
Herb Stratum (Plot si	izo: 10' diameter)	10	- Total Cove	1	UPL species	_ x5 =	
,		0.5		FACIL	· -	_	
1. <u>Senecio vulgaris</u>		<u>25</u>	<u>yes</u>	<u>FACU</u>	Column Totals:	_ (A)	(B)
2. <u>Holcus lanatus</u>		<u>25</u>	<u>yes</u>	<u>FAC</u>		ce Index = B/A =	
3. <u>Digitalis purpurea</u>	<u> 1</u>	<u>20</u>	<u>yes</u>	<u>FACU</u>	Hydrophytic Vegetation Inc		
4. <u>Rubus ursinus</u>		<u>20</u>	<u>no</u>	<u>FACU</u>	1 – Rapid Test for Hyd	· ·	
5. <u>Chamaenerion ar</u>	<u>ngustifolium</u>	<u>15</u>	<u>no</u>	<u>FACU</u>	2 - Dominance Test is	>50%	
6. <u>Lactuca serriola</u>		<u>10</u>	<u>no</u>	<u>FACU</u>	☐ 3 - Prevalence Index is	. <u>&lt;</u> 3.0¹	
7. Anaphalis marga	<u>ritacea</u>	<u>5</u>	<u>no</u>	<u>FACU</u>		otations¹ (Provide suppo	orting
8. <u>Pteridium aquilinu</u>	<u>um</u>	<u>5</u>	<u>no</u>	<u>FACU</u>	data in Remarks or	on a separate sheet)	
9. Galium aparine		<u>5</u>	<u>no</u>	<u>FACU</u>	☐ 5 - Wetland Non-Vascu	ılar Plants <sup>1</sup>	
10					☐ Problematic Hydrophyt	ic Vegetation¹ (Explain)	1
11					1		
50% = <u>65</u> , 20% = <u>26</u>		<u>130</u>	= Total Cove	r	<sup>1</sup> Indicators of hydric soil and be present, unless disturbed		t
Woody Vine Stratum	_(Plot size:)						
1							
2					Hydrophytic		
50% =, 20% =	: <u></u>		= Total Cove	r	Vegetation Present?	Yes	No 🛚
% Bare Ground in He	erb Stratum 0				i resent:		
	The hydrophytic vegetation criteria	a is not met h	ecause there is	s less than 50	L N% dominance by FΔC plant sr	necies	
Remarks:	The hydrophydd vegetation offichia	a is not mot b	coadsc there is	o icoo triari ot	770 dominarioe by 1710 plant of	Colos.	

SOIL Sampling Point: TP 37 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 silt loam 0-3 100 <u>3-8</u> 10YR 3/4 99 7.5YR 4/6 1 С M sandy loam 8-13 10YR 5/6 90 7.5YR 4/6 <u>10</u> <u>C</u> M sandy loam 5YR 4/6 13-16 C 2.5YR 5/1 90 10 Μ Sand <sup>2</sup>Location: PL=Pore Lining, M=Matrix, RC=Root Channel <sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u> Sam	pling Date:	10-19-23	!
Applicant/Owner:	Raydient				State: <u>WA</u> Sam	pling Point:	TP 38	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Range:	3 31 T 27 N R 2 E	<u>WM</u>	
Landform (hillslope, te	errace, etc.): <u>Hillslope</u>		Local	relief (conca	ave, convex, none): convex	Slope	(%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum:		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI classification	tion: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛛	No 🔲 (If no, explain in Rer	narks.)		
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 Remark	s.)		
SUMMARY OF FIN	DINGS – Attach site map sh	owing sam	pling point	locations,	transects, important features,	etc.		
Hydrophytic Vegetation	n Present?	Yes 🗌	No 🖾					
Hydric Soil Present?		Yes 🗌		Is the Samp within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pre	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlen	neyer Road and	d Bond Road	between Poulsbo and Kingston. The	site is large so w	as divided	into
three segr	ments, most of which are either cle	ear cut or fore	ested. Test Plo	ot 38 is locate	ed on the mapped stream in a ravine i	n the central segm	ient.	
VEGETATION - Use	e scientific names of plants							
Tree Stratum (Plot siz	ze: 30' diameter)	Absolute	Dominant	Indicator	Dominance Test Worksheet:			
1		% Cover	Species?	<u>Status</u>				
2					Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u>		(A)
3.					Total Niveshan of Dansin and			
4.					Total Number of Dominant Species Across All Strata:	<u>5</u>		(B)
50% =, 20% =	:		= Total Cove		Developt of Deminant Charles			
	m (Plot size: <u>20' diameter</u> )		- Total Gove		Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>20</u>		(A/B)
Pseudotsuga mei		<u>15</u>	<u>yes</u>	FACU	Prevalence Index worksheet:			
Cytisus scoparius		<u>10</u>	<u></u>	UPL	Total % Cover of:	<u>Multipl</u>	v hv	
3. Prunus emargina	_	<u>10</u> 5	<u>yes</u> no	FACU	OBL species	x1 =	<u>у Бу.</u>	
4.	<u>.u</u>	<u>v</u>	110	17100	FACW species	x2 =		
5.					FAC species	x3 =		
50% = <u>15</u> , 20% = <u>6</u>		30	= Total Cove		FACU species	x4 =		
	zo: 10' diameter)	<u>50</u>	- Total Cove		UPL species	x5 =		
Herb Stratum (Plot size		0.5		E40	· —	X3 –		(D)
1. Agrostis gigantea	_	<u>25</u>	<u>yes</u>	FAC	Column Totals:(A)	D/4		(B)
2. <u>Hypochaeris radio</u>		<u>20</u>	<u>yes</u>	<u>FACU</u>	Prevalence Inde			
3. <u>Digitalis purpurea</u>	<u>!</u>	<u>20</u>	<u>yes</u>	FACU	Hydrophytic Vegetation Indicator			
4. <u>Senecio vulgaris</u>		<u>15</u>	<u>no</u>	<u>FACU</u>	1 – Rapid Test for Hydrophyti	c Vegetation		
5. <u>Chamaenerion ar</u>	<u></u>	<u>10</u>	<u>no</u>	<u>FACU</u>	2 - Dominance Test is >50%			
6. <u>Taraxacum officir</u>	<u>nale</u>	<u>10</u>	<u>no</u>	<u>FACU</u>	☐ 3 - Prevalence Index is <u>&lt;</u> 3.0¹			
7. <u>Cirsium vulgare</u>		<u>5</u>	<u>no</u>	<u>FACU</u>	4 - Morphological Adaptations		ting	
8					data in Remarks or on a se	∍parate sheet)		
9					5 - Wetland Non-Vascular Pla	ınts¹		
10					☐ Problematic Hydrophytic Veg	etation¹ (Explain)		
11					4			
50% = <u>52.5</u> , 20% = <u>2</u>	<u>1</u>	<u>105</u>	= Total Cove	r	<sup>1</sup> Indicators of hydric soil and wetlan be present, unless disturbed or pro			
Woody Vine Stratum	(Plot size:)				,			
1								
2					Hydrophytic	-		K-21
50% =, 20% =	:		= Total Cove	r	Vegetation Yes Present?		No	$\boxtimes$
% Bare Ground in He	erb Stratum 0				resenti			
	_	is not met h	ecause there is	s less than 50	I 0% dominance by FAC plant species.			
Remarks:	The hydrophytic vegetation chiefla	i is not met b	coause triere is	s iess triair ot	7/0 dominance by 1 Ac plant species.			

SOIL Sampling Point: TP 38 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 3/3 silt loam 0-4 100 <u>4-16</u> 10YR 5/4 <u>95</u> 10YR 4/6 5 С Μ silt loam <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Coun	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-19-23	<u>3</u>
Applicant/Owner:	Raydient				State: WA	Sampling Point:	TP 39	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Ra	inge: <u>S 31 T 27 N R 2 E</u>	<u>-WM</u>	
Landform (hillslope, te	errace, etc.): <u>Hillslope</u>		Loca	al relief (conca	ave, convex, none): convex	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam,	615% slopes	<u> </u>		NWI cla	assification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical fo	r this time of	year? Y	es 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	, Soil □, or Hydrology	☐, signific	antly disturbed	l? Are "l	Normal Circumstances" preser	nt? Yes	☑ No	
Are Vegetation ☐,	, Soil □, or Hydrology	☐, natural	ly problematic	? (If nee	eded, explain any answers in F	Remarks.)		
SUMMARY OF FIN	IDINGS – Attach site map s	howing san	npling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetatio	n Present?	Yes 🗌	No 🛚	1. 4	II. A			
Hydric Soil Present?		Yes 🗌	No 🛚	Is the Samp within a Wer		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pr	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located	along Stottler	neyer Road an	d Bond Road	between Poulsbo and Kingsto	on. The site is large so w	as divided	l into
three seg	ments, most of which are either c	lear cut or for	ested. Test Pl	ot 39 is locate	ed in the southeast corner of th	e central segment.		
VEGETATION - Us	e scientific names of plants	;						
Tree Stratum (Plot size	ze: 30' diameter)	Absolute	Dominant	Indicator	Dominance Test Workshee	et:		
1	,	% Cover	Species?	<u>Status</u>	N 1 (D : 10 :			
2					Number of Dominant Specie That Are OBL, FACW, or FA			(A)
3					T			
4.					Total Number of Dominant Species Across All Strata:	<u>3</u>		(B)
50% =, 20% =			= Total Cove			_		
<u> </u>	m (Plot size: <u>20' diameter</u> )		- Total Gove	21	Percent of Dominant Specie That Are OBL, FACW, or FA			(A/B)
Cytisus scoparius		<u>20</u>	<u>yes</u>	<u>UPL</u>	Prevalence Index workshe	oot:		
2	<u>2</u>	20	<u>ycs</u>	<u>01 L</u>	Total % Cover		ılv bv	
3					OBL species	<u>wanap</u> x1 =	iy by.	
4					FACW species	x2 =		
5.					FAC species	x3 =		
50% = <u>10</u> , 20% = <u>4</u>		<del></del>	= Total Cove		FACU species	x4 =		
	izo: 10' diameter)	<u>20</u>	- Total Cove	21	UPL species	x5 =		
Herb Stratum (Plot si	ze. <u>10 diameter</u> )	05		FAOLI		_		(5)
1. <u>Senecio vulgaris</u>	. ,	<u>25</u>	<u>yes</u>	<u>FACU</u>	Column Totals:	(A)		(B)
2. <u>Hypochaeris radi</u>		<u>20</u>	<u>yes</u>	FACU		ce Index = B/A =		
3. <u>Chamaenerion ar</u>	<u>ngustifolium</u>	<u>10</u>	<u>no</u>	FACU	Hydrophytic Vegetation In			
4. <u>Lactuca serriola</u>		<u>10</u>	<u>no</u>	FACU	1 – Rapid Test for Hyd	· · ·		
5. <u>Taraxacum officir</u>	<u>nale</u>	<u>10</u>	<u>no</u>	<u>FACU</u>	2 - Dominance Test is	>50%		
6					3 - Prevalence Index is	s <u>&lt;</u> 3.0¹		
7						ptations¹ (Provide suppo	rting	
8					data in Remarks or	on a separate sheet)		
9					5 - Wetland Non-Vasc	ular Plants <sup>1</sup>		
10					☐ Problematic Hydrophy	tic Vegetation¹ (Explain)		
11					1			
50% = <u>37.5,</u> 20% = <u>1</u>	<u>5</u>	<u>75</u>	= Total Cove	er	<sup>1</sup> Indicators of hydric soil and be present, unless disturbed			
Woody Vine Stratum	_(Plot size:)				, ,	'		
1								
2					Hydrophytic	V □	N-	<b>5</b> 2
50% =, 20% =	:		= Total Cove	er	Vegetation Present?	Yes	No	
% Bare Ground in He	erb Stratum <u>25</u>							
	The hydrophytic vegetation criter	ia is not met h	ecause there i	s less than 50	L 0% dominance by FAC plant s	pecies.		
Remarks:	, sp.ii, no rogotation offici			555	2 20a.ioo by i no piulit o			

Depth	Matrix				Redox Features	s		-				
nches)	Color (moist)	%	Color (	moist)		ype <sup>1</sup> Loc <sup>2</sup>	 Texture	2		Remarks		
0-6	10YR 3/4	100		moist)		<u> </u>	sa silt lo			Ciliano	,	
6-16	10YR 4/6	95	7.5YF	 R 5/8	<u> </u>	<u>C</u> <u>M</u>	sa silt lo					
						<u> </u>						
			_	_								
			_	_								
				_				sa - saı	<u>ndy</u>			
				_								
	<del></del>					<u> </u>		<del>-</del> . <del></del> .				
•	Concentration, D=Deple	-				d Sand Grains.		=Pore Lining, N				
	Indicators: (Applicab sol (A1)	le to all L	.KKS, UNIES		Redox (S5)			icators for Pro 2 cm Muck		iyaric S	olis":	
	Epipedon (A2)			-	ed Matrix (S6)			Red Parent		TF2)		
	Histic (A3)					=1) (except MLRA		Very Shallo		•	<del>-</del> 12)	
	gen Sulfide (A4)			-	/ Gleyed Matrix (F		., _	Other (Expl		•	12)	
-	ted Below Dark Surface	e (A11)		•	ted Matrix (F3)			O (2.1p.		u		
•	Dark Surface (A12)	. ( ,			Dark Surface (F6	3)						
	Mucky Mineral (S1)				ted Dark Surface (	•		licators of hydro				
-	Gleyed Matrix (S4)		_		Depressions (F8			vetland hydrolo unless disturbed			t,	
	Layer (if present):					,		ariicaa diatarbet	a or proble	nauc.		
e:	<u></u>											
oth (inche	es):					Hydric Soi	ils Present?		Yes		No	
marks:	This soil profile meets	s none of	the hydric s	soil indicato	rs because of the	high matrix colors.						
DROLOG	GY .	s none of	the hydric s	oil indicato	rs because of the	high matrix colors.						
OROLOG otland Hy	GY rdrology Indicators:				rs because of the	high matrix colors.		ndary Indicator	s (2 or mor	e require	ed)	
DROLOG etland Hy mary Indic	GY drology Indicators: icators (minimum of one		; check all f	hat apply)			Seco	ndary Indicators Water-Stained	•	-	ed)	
PROLOG etland Hy mary India Surfac	GY rdrology Indicators: cators (minimum of one ce Water (A1)			hat apply)   Water-	-Stained Leaves (l	B9)	Seco	Water-Stained	Leaves (B	9)	ed)	
PROLOG tland Hy mary India Surfac High N	GY ordrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2)		; check all f	hat apply)   Water- (excep	-Stained Leaves (lot MLRA 1, 2, 4A,	B9)	Secoi	Water-Stained (MLRA 1, 2, 4)	Leaves (B	9)	ed)	
PROLOG Itland Hy mary Indio Surfac High V	rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3)		; check all f	hat apply)   Water- (excep	-Stained Leaves (l ot MLRA 1, 2, 4A, rust (B11)	B9) , <b>and 4B)</b>	Secol	Water-Stained (MLRA 1, 2, 4) Drainage Patte	Leaves (B A, and 4B) erns (B10)	9)	ed)	
PROLOG Itland Hy mary India Surfac High V Satura Water	rdrology Indicators: icators (minimum of one ce Water (A1) Water Table (A2) ration (A3) r Marks (B1)		; check all t	hat apply)   Water- (excep   Salt Ci   Aquati	-Stained Leaves (lot <b>MLRA 1, 2, 4A,</b> rust (B11) c Invertebrates (B	B9) , <b>and 4B</b> )	Seco	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W	Leaves (B A, and 4B) erns (B10) dater Table	9) (C2)		
DROLOG etland Hy mary India Surfac High V Satura Water Sedim	drology Indicators: icators (minimum of one ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2)		; check all t	hat apply)   Water- (excep   Salt Ci   Aquati   Hydrog	-Stained Leaves (lot MLRA 1, 2, 4A, rust (B11) ic Invertebrates (Bgen Sulfide Odor (	B9) , and 4B)	Secon	Water-Stained (MLRA 1, 2, 4, Drainage Patte Dry-Season W Saturation Visi	Leaves (B A, and 4B) erns (B10) ater Table ble on Aeri	9) (C2) al Image		
DROLOG etland Hy mary India Surfar High N Satura Water Sedim Drift E	rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3)		; check all t	hat apply)    Water- (excep   Salt Cool   Aquati   Hydroo	-Stained Leaves (I ot MLRA 1, 2, 4A, rust (B11) c Invertebrates (B gen Sulfide Odor ( ed Rhizospheres	B9) , and 4B) 313) (C1) along Living Roots	Secon	Water-Stained (MLRA 1, 2, 4, Drainage Patte Dry-Season W Saturation Visi Geomorphic P	Leaves (B A, and 4B) erns (B10) dater Table ble on Aeri osition (D2	9) (C2) al Image		
PROLOG etland Hy mary Indio Surfac High \ Satura Water Sedim Drift E	rdrology Indicators: cators (minimum of one ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)		; check all t	hat apply)    Water- (excep   Salt Ci   Aquati   Hydrog   Oxidize	-Stained Leaves (lot MLRA 1, 2, 4A, rust (B11) ic Invertebrates (Bgen Sulfide Odor (	B9) , and 4B) 313) (C1) along Living Roots on (C4)	Secoi	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita	Leaves (B A, and 4B) erns (B10) later Table ble on Aeri osition (D2 ard (D3)	9) (C2) al Image		
DROLOG etland Hy mary Indio Surfac High \ Satura Water Sedim Drift D Algal Iron D	rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3)		; check all t	hat apply)   Water- (excep   Salt Ci   Aquati   Hydrog   Oxidiz:   Preser   Recen	-Stained Leaves (I ot MLRA 1, 2, 4A, rust (B11) ic Invertebrates (B gen Sulfide Odor ( ed Rhizospheres nce of Reduced In it Iron Reduction in	B9) , and 4B) s13) (C1) along Living Roots on (C4) n Tilled Soils (C6)	Secoi	Water-Stained (MLRA 1, 2, 4, Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T	Leaves (B A, and 4B) erns (B10) fater Table ble on Aeri osition (D2 ard (D3) est (D5)	9) (C2) al Image	ery (C9)	
PROLOG Patland Hy mary India Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac	rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)	e required	; check all t	hat apply)    Water- (excepton)   Salt Citor   Aquatiton   Hydroot   Oxidizet   Presert   Recent	-Stained Leaves (I ot MLRA 1, 2, 4A, rust (B11) c Invertebrates (B gen Sulfide Odor ( ed Rhizospheres nce of Reduced Ir	B9) , and 4B)  313) (C1) along Living Roots on (C4) n Tilled Soils (C6) nts (D1) (LRR A)	Secoi	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita	Leaves (B A, and 4B) erns (B10) fater Table ble on Aeri osition (D2 ard (D3) est (D5) ounds (D6)	9) (C2) al Image )	ery (C9)	
DROLOG etland Hy mary India Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund	drology Indicators: icators (minimum of one ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6)	e required	; check all t	hat apply)    Water- (excepton)   Salt Citor   Aquatiton   Hydroot   Oxidizet   Presert   Recent	-Stained Leaves (I ot MLRA 1, 2, 4A, rust (B11) c Invertebrates (B gen Sulfide Odor ( ed Rhizospheres nce of Reduced In the Iron Reduction in ed or Stresses Plan	B9) , and 4B)  313) (C1) along Living Roots on (C4) n Tilled Soils (C6) nts (D1) (LRR A)	Secon	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) fater Table ble on Aeri osition (D2 ard (D3) est (D5) ounds (D6)	9) (C2) al Image )	ery (C9)	
mary India Surfac High N Satura Water Sedin Drift E Algal Iron D Surfac	rdrology Indicators: cators (minimum of one ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aerial I	e required	; check all t	hat apply)    Water- (excepton)   Salt Citor   Aquatiton   Hydroot   Oxidizet   Presert   Recent	-Stained Leaves (I ot MLRA 1, 2, 4A, rust (B11) c Invertebrates (B gen Sulfide Odor ( ed Rhizospheres nce of Reduced In the Iron Reduction in ed or Stresses Plan	B9) , and 4B)  313) (C1) along Living Roots on (C4) n Tilled Soils (C6) nts (D1) (LRR A)	Secon	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) fater Table ble on Aeri osition (D2 ard (D3) est (D5) ounds (D6)	9) (C2) al Image )	ery (C9)	
DROLOG etland Hy mary Indio Surfac High \ Satura Water Sedim Drift D Algal Iron D Surfac Inund Spars	rdrology Indicators: cators (minimum of one ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aerial I	e required Imagery (E	; check all t	hat apply)  Water- (excep  Salt Ci Aquati Hydrog Oxidize Preser Recen Stunte Other	-Stained Leaves (I ot MLRA 1, 2, 4A, rust (B11) c Invertebrates (B gen Sulfide Odor ( ed Rhizospheres nce of Reduced In the Iron Reduction in ed or Stresses Plan	B9) , and 4B)  313) (C1) along Living Roots on (C4) n Tilled Soils (C6) nts (D1) (LRR A)	Secon	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) fater Table ble on Aeri osition (D2 ard (D3) est (D5) ounds (D6)	9) (C2) al Image )	ery (C9)	
DROLOG etland Hy mary India Surfac High \ Satura Water Sedim Drift D Algal Iron D Surfac Inund Spars eld Obser rface Water	rdrology Indicators: cators (minimum of one ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aerial I sely Vegetated Concavervations:	e required	; check all f	hat apply)    Water- (excep   Salt Ci   Aquati   Hydrog   Oxidiz-   Preser   Recen   Stunte	-Stained Leaves (I ot MLRA 1, 2, 4A, rust (B11) ic Invertebrates (B gen Sulfide Odor ( ed Rhizospheres ince of Reduced Ir it Iron Reduction in id or Stresses Plai (Explain in Remar	B9) , and 4B)  313) (C1) along Living Roots on (C4) n Tilled Soils (C6) nts (D1) (LRR A)	Secon	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) fater Table ble on Aeri osition (D2 ard (D3) est (D5) ounds (D6)	9) (C2) al Image )	ery (C9)	
PROLOG  Stland Hy mary India  Surfac  High \ Satura  Vater  Sedim  Drift E  Algal  Iron D  Surfac  Inund  Spars  Eld Obser  rface Wat  tter Table  turation P	rdrology Indicators: icators (minimum of one ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aerial I sely Vegetated Concave rvations: ter Present? Yes	e required	; check all f	hat apply)  Water- (excep Salt Co Aquati Hydrog Oxidiz: Preser Recen Stunte Other	-Stained Leaves (I ot MLRA 1, 2, 4A, rust (B11) ic Invertebrates (B gen Sulfide Odor ( ed Rhizospheres nce of Reduced In it Iron Reduction in id or Stresses Plai (Explain in Remar	B9) , and 4B)  313) (C1) along Living Roots on (C4) n Tilled Soils (C6) nts (D1) (LRR A)	(C3)	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) dater Table ble on Aeri osition (D2 ard (D3) est (D5) bunds (D6) ummocks (	9) (C2) al Image )	ery (C9)	0
PROLOG etland Hy mary India Surfac High V Satura Water Sedim Drift D Surfac Inund Spars eld Obser rface Wat ater Table turation P	rdrology Indicators: icators (minimum of one oce Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aerial I sely Vegetated Concave rvations: ter Present? Present? Yes Present? Yes	e required	i; check all f	hat apply)    Water- (excep   Salt Ci   Aquati   Hydrog   Oxidiz   Preser   Recen   Stunte   Other	-Stained Leaves (I ot MLRA 1, 2, 4A, rust (B11) c Invertebrates (B gen Sulfide Odor ( ed Rhizospheres nce of Reduced In it Iron Reduction in id or Stresses Plai (Explain in Remar epth (inches): epth (inches):	B9) , and 4B)  (C1) along Living Roots on (C4) in Tilled Soils (C6) ints (D1) (LRR A) rks)	Secon	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (B A, and 4B) erns (B10) dater Table ble on Aeri osition (D2 ard (D3) est (D5) bunds (D6) ummocks (	9) (C2) al Image ) (LRR A) (D7)	ery (C9)	0
DROLOG etland Hy mary India Surfac High V Satura Water Sedim Drift D Surfac Inund Spars eld Obser rface Wat ater Table turation P cludes ca	rdrology Indicators: icators (minimum of one ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) lation Visible on Aerial I sely Vegetated Concave rvations: ter Present? Present? Yes Present? Yes Present? Yes	e required imagery (fee Surface	; check all t	hat apply)  Water- (excep Salt Coll Aquati Hydrog Preser Recen Stunte Other  Del Del Location	-Stained Leaves (int MLRA 1, 2, 4A, rust (B11) inc Invertebrates (Bugen Sulfide Odor Stresses Plant (Explain in Remanulation (Explain in Remanulation (Bugen Sulfide Odor Stresses Plant (Explain in Remanulation (Bugen Bugen Bug	B9) , and 4B)  (C1) along Living Roots on (C4) n Tilled Soils (C6) nts (D1) (LRR A) rks)  pections), if availab	Secon	Water-Stained (MLRA 1, 2, 4) Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (B A, and 4B) erns (B10) dater Table ble on Aeri osition (D2 ard (D3) est (D5) bunds (D6) ummocks (	9) (C2) al Image ) (LRR A) (D7)	ery (C9)	<u> </u>

Project Site: NK	K United			City/Count	ty: <u>Poulsbo/Kitsap</u>	Sampling Date:	<u>10-19-</u>	23
Applicant/Owner: Ra	<u>aydient</u>				State: WA	Sampling Point:	TP 40	
Investigator(s): <u>J. I</u>	Bartlett, M. Mill				Section, Township, Ra	ange: <u>S 31 T 27 N R 2</u>	<u>EWM</u>	
Landform (hillslope, terrac	ce, etc.): <u>Hillslope</u>		Local	relief (conca	ave, convex, none): <u>convex</u>	<u>«</u> Slop	e (%): <u>5</u>	<u>-</u>
Subregion (LRR): <u>M</u>	MLRA 2	Lat:	_		Long:	Datum:		
Soil Map Unit Name: P	Poulsbo gravelly sandy loam, 6	-15% slopes			NWI cl	assification: None		
Are climatic / hydrologic co	onditions on the site typical for t	this time of ye	ear? Ye	s 🛛	No 🔲 (If no, explai	n in Remarks.)		
Are Vegetation □, S	Soil □, or Hydrology □	☐, significa	intly disturbed?	Are "N	Normal Circumstances" prese	nt? Yes	⊠ N	lo 🗆
Are Vegetation □, S	Soil □, or Hydrology □	☐, naturally	y problematic?	(If nee	eded, explain any answers in	Remarks.)		
SUMMARY OF FINDIN	NGS – Attach site map sho	owing sam	pling point l	ocations,	transects, important fea	tures, etc.		
Hydrophytic Vegetation Pr	•	Yes 🗆	No 🛛	•	· ·	·		
Hydric Soil Present?		Yes 🗆	No M	s the Samp		Yes	□ N	lo 🛛
Wetland Hydrology Preser	nt?	Yes 🗆	No 🛛	within a Wet	tland?			
, 0,								
	United (NK United) is located alents, most of which are either clean							
unee segmen	its, most of which are either dea	ai cut oi iore	sieu. Tesi Fio	1 40 IS IOCALE	d iii a iow area iii trie soutriea	ist corner or the central:	segment.	
VEGETATION - Use so	cientific names of plants				T			
Tree Stratum (Plot size: 3	30' diameter)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Workshe	et:		
1		70 COVEL	Opecies:	Otatus	Number of Deminant Speci	00		
2.					Number of Dominant Speci That Are OBL, FACW, or FA			(A)
3.					Tatal Number of Deminerat			
4.					Total Number of Dominant Species Across All Strata:	<u>3</u>		(B)
50% =, 20% =			= Total Cover	.—				
			- Total Cover		Percent of Dominant Specie That Are OBL, FACW, or Fa			(A/B)
Sapling/Shrub Stratum (F	Plot size: <u>20' diameter</u> )			Di				
1. <u>Cytisus scoparius</u>		<u>55</u>	<u>yes</u>	<u>UPL</u>	Prevalence Index worksh			
2. <u>Pseudotsuga menzie</u>	<u>:sii</u>	<u>5</u>	<u>no</u>	<u>FACU</u>	<u>Total % Cover</u>		ply by:	
3. <u>Rubus leucodermis</u>		<u>5</u>	<u>no</u>	<u>FACU</u>	OBL species	x1 =		=
4					FACW species	x2 =		_
5					FAC species	x3 =		_
50% = <u>32.5</u> , 20% = <u>13</u>		<u>65</u>	= Total Cover	r	FACU species	x4 =		_
Herb Stratum (Plot size:	10' diameter)				UPL species	x5 =		_
1. <u>Hypochaeris radicata</u>	<u>1</u>	<u>20</u>	<u>yes</u>	FACU	Column Totals:	(A)		(B)
2. Senecio vulgaris		10	yes	FACU		nce Index = B/A =		_ ` ′
3. Cirsium vulgare		10	no	FACU	Hydrophytic Vegetation Ir	·	<del></del>	
4. <u>Urtica dioica</u>		<u>10</u>	no no	FAC	☐ 1 – Rapid Test for Hy			
5. Polystichum munitum	n	<u>5</u>	no no	FACU	2 - Dominance Test is			
	<u>1</u>	<u> </u>	110	<u>1 ACC</u>				
6					☐ 3 - Prevalence Index	is <u>&lt;</u> 3.01		
7						aptations <sup>1</sup> (Provide supp	orting	
8					_	r on a separate sheet)		
9					5 - Wetland Non-Vaso	cular Plants <sup>1</sup>		
10					☐ Problematic Hydrophy	ytic Vegetation¹ (Explain	)	
11								
50% = <u>27.5,</u> 20% = <u>11</u>		<u>55</u>	= Total Cover	r	<sup>1</sup> Indicators of hydric soil and be present, unless disturbe		st	
Woody Vine Stratum (Plo	ot size:)				be present, unless distarbe	a or problematic.		
1								
2.					Hydrophytic			
50% = , 20% =			= Total Cover	<del></del>	Vegetation	Yes	No	$\boxtimes$
	<del></del>				Present?			
% Bare Ground in Herb S								
Remarks:	hydrophytic vegetation criteria	is not met pe		. 1000 tilali 0t	on domination by I AO plants	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
İ								

	Matrix				Re	edox Featu									
nches)	Color (moist)	%		Color (mo	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	re		Remarks	S		
<u>0-2</u>	10YR 4/4	<u>100</u>	<u>)</u>						sa silt	oam	_				
<u>2-5</u>	10YR 5/6	100	<u>)</u>						sa silt	oam	_				
<u>5-16</u>	10YR 5/6	<u>50</u>		7.5YR 4	<u>/6</u>	<u>1</u>	<u>C</u>	<u>M</u>	sa silt	oam	_				
	10YR 5/4	<u>49</u>									_				
			_								_				
			_												
			_		· <u> </u>						_				
	<del></del>	—			. <u> </u>			—			_				
•	oncentration, D=De <sub>l</sub>						ated Sand	d Grains.		L=Pore Lining				nel	_
	Indicators: (Applic	able to	all LRRs,			-				licators for Pi		Hydric S	Soils <sup>3</sup> :		
Histos	•				Sandy Red					2 cm Muc					
	Epipedon (A2)				Stripped M	, ,					nt Material (				
	Histic (A3)				•	•	. , .	ccept MLRA 1		-	low Dark Su		F12)		
-	gen Sulfide (A4)				Loamy Gle	-	(F2)			Other (Ex	plain in Ren	narks)			
-	ed Below Dark Surf	ace (A11	1)		Depleted M										
	Dark Surface (A12)				Redox Dar		` ,		31	diantara of bure	leanh, dia va	antation.			
	Mucky Mineral (S1)				Depleted D					dicators of hyd wetland hydro					
-	Gleyed Matrix (S4)				Redox Dep	ressions (	F8)			unless disturb	ed or proble	ematic.			_
	Layer (if present):														
e: oth (inche											Yes		No		
norko:								Hydric Soils							
emarks:	This soil profile me	eets non	e of the h	ydric soi	l indicators be	ecause of t	the high n								
	· 	eets non	e of the h	ydric soi	l indicators be	ecause of t	the high n								
DROLOG	· 		e of the h	ydric soi	I indicators be	ecause of t	the high n								
PROLOG	e <b>y</b>	:				ecause of t	the high n			ondary Indicate	ors (2 or mo	re requir	ed)		_
PROLOG tland Hy mary Indic	SY drology Indicators	:								ondary Indicate Water-Staine	•		ed)		
ROLOG tland Hy mary India Surfac	drology Indicators cators (minimum of one Water (A1)	:		ck all tha	at apply) Water-Stail	ned Leave	es (B9)	natrix colors.	Seco	Water-Staine	ed Leaves (E	39)	ed)		_
PROLOG tland Hy mary India Surfac High \	drology Indicators cators (minimum of the Water (A1) Water Table (A2)	:		ck all tha	at apply) Water-Staii (except MI	ned Leave LRA 1, 2, 4	es (B9)	natrix colors.	Seco	Water-Staine	ed Leaves (E	39) )	ed)		_
PROLOG tland Hy mary Indio Surfac High V	drology Indicators cators (minimum of one Water (A1) Water Table (A2) ation (A3)	:		ck all tha	at apply) Water-Stair (except MI Salt Crust (	ned Leave <b>LRA 1, 2,</b> 4 (B11)	es (B9) <b>4A, and</b> 4	natrix colors.	Seco	Water-Staine (MLRA 1, 2, Drainage Pa	ed Leaves (E 4A, and 4B tterns (B10)	39) <b>)</b>	ed)		_
ROLOG tland Hyd mary Indid Surfac High V Satura Water	drology Indicators cators (minimum of oce Water (A1) Nater Table (A2) ation (A3)	:		ck all tha	at apply)  Water-Staii  (except MI  Salt Crust (  Aquatic Inv	ned Leave L <b>RA 1, 2, 4</b> (B11) vertebrates	es (B9) <b>4A, and 4</b> s (B13)	natrix colors.	Seco	Water-Staine	ed Leaves (E <b>4A, and 4B</b> tterns (B10) Water Table	39) ) e (C2)	·	9)	_
PROLOG tland Hy mary India Surfac High \ Satura Water Sedim	drology Indicators cators (minimum of oce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2)	:		ck all tha	at apply)  Water-Stair  (except MI  Salt Crust (  Aquatic Inv  Hydrogen S	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Odd	es (B9)  4A, and 4  6 (B13)  or (C1)	natrix colors.	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation Vi	ed Leaves (E <b>4A, and 4B</b> tterns (B10) Water Table isible on Ae	39)  (C2)  (C2)	·	9)	
PROLOG tland Hymary Indice Surface High V Satura Water Sedim Drift E	drology Indicators cators (minimum of one Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3)	:		ck all tha	at apply)  Water-Stain (except Mi Salt Crust ( Aquatic Inv Hydrogen S	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Odd	es (B9) <b>4A, and 4</b> s (B13)  or (C1)  es along	natrix colors.  4B)  Living Roots (6	Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation Vi Geomorphic	ed Leaves (E  4A, and 4B  tterns (B10)  Water Table isible on Ael  Position (D2)	39)  (C2)  (C2)	·	9)	
PROLOG tland Hymary Indio Surfac High V Satura Water Sedim Drift D	drology Indicators cators (minimum of oce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	:		ck all tha	at apply)  Water-Stain (except MI Salt Crust ( Aquatic Inv Hydrogen S Oxidized R Presence of	ned Leave <b>LRA 1, 2,</b> 4 (B11) vertebrates Sulfide Odd chizosphere	es (B9) <b>4A, and 4 5</b> (B13)  or (C1)  es along  d Iron (C4	natrix colors.  4B)  Living Roots ((	Second	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Ael Position (D2 itard (D3)	39)  (C2)  (C2)	·	))	
PROLOG Stland Hymary India Surface High N Satura Water Sedim Drift D Algal I	drology Indicators cators (minimum of ope Water (A1) Nater Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)	:		ck all tha	at apply)  Water-Stain  (except MI  Salt Crust (  Aquatic Inv  Hydrogen S  Oxidized R  Presence of  Recent Iror	ned Leave  LRA 1, 2, 4  (B11)  vertebrates  Sulfide Ode  thizosphere  of Reduced  n Reductio	es (B9)  4A, and 4  6 (B13)  or (C1)  es along  d Iron (C4  on in Tillet	natrix colors.  4B)  Living Roots (44)  d Soils (C6)	_ Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Aei Position (D2 itard (D3) Test (D5)	39)  (C2)  (C3)  (C2)  (C3)	ery (C9	9)	
PROLOG tland Hydramary India Surface High N Satura Water Sedim Drift D Algal I Iron D Surface	drology Indicators cators (minimum of oce Water (A1) Nater Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) De Soil Cracks (B6)	: one requ	iired; ched	ck all tha	at apply)  Water-Stair (except MI Salt Crust ( Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Stunted or	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Odd thizosphere of Reduced in Reductio Stresses F	es (B9)  4A, and 4  5 (B13)  or (C1)  es along  d Iron (C4)  on in Tilled	natrix colors.  4B)  Living Roots (44)  d Soils (C6)	Section	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Aer Position (D2) itard (D3) Test (D5) Mounds (D6)	39)  (C2)  (C3)  (A)  (C2)  (C2)  (C3)  (C3)	ery (C9	)))	
PROLOG  Itland Hy mary India  Surfac  High \ Satura  Water  Sedim  Drift D  Algal   Iron D  Surfac  Inunda	drology Indicators cators (minimum of oce 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 Aeria	: one requ	uired; chec	ck all tha	at apply)  Water-Stain  (except MI  Salt Crust (  Aquatic Inv  Hydrogen S  Oxidized R  Presence of  Recent Iror	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Odd thizosphere of Reduced in Reductio Stresses F	es (B9)  4A, and 4  5 (B13)  or (C1)  es along  d Iron (C4)  on in Tilled	natrix colors.  4B)  Living Roots (44)  d Soils (C6)	_ Seco	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Aer Position (D2) itard (D3) Test (D5) Mounds (D6)	39)  (C2)  (C3)  (A)  (C2)  (C2)  (C3)  (C3)	ery (C9	<b>)</b> ))	
PROLOG Istand Hymary India Surfac High V Satura Water Sedim Drift D Algal I Iron D Surfac Inunda Spars	drology Indicators cators (minimum of operators (Marker (A1)) Water Table (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Deposits (B5) Deposits (B5) Deposits (B6)	: one requ	uired; chec	ck all tha	at apply)  Water-Stair (except MI Salt Crust ( Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Stunted or	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Odd thizosphere of Reduced in Reductio Stresses F	es (B9)  4A, and 4  5 (B13)  or (C1)  es along  d Iron (C4)  on in Tilled	natrix colors.  4B)  Living Roots (44)  d Soils (C6)	Section	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Aer Position (D2) itard (D3) Test (D5) Mounds (D6)	39)  (C2)  (C3)  (A)  (C2)  (C2)  (C3)  (C3)	ery (C9	)))	
Surface High V Satura Water Sedim Drift D Surface Iron D Surface Inund: Spars	drology Indicators cators (minimum of oce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Dee Soil Cracks (B6) ation Visible on Aeriely Vegetated Concevations:	: one requ ial Image cave Surf	uired; chea	ck all tha	at apply)  Water-Stain (except MI Salt Crust ( Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Leave <b>LRA 1, 2, 4</b> (B11) vertebrates Sulfide Odd thizosphere of Reduced n Reductio Stresses F dain in Ren	es (B9)  4A, and 4  5 (B13)  or (C1)  es along  d Iron (C4)  on in Tilled	natrix colors.  4B)  Living Roots (44)  d Soils (C6)	Section	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Aer Position (D2) itard (D3) Test (D5) Mounds (D6)	39)  (C2)  (C3)  (A)  (C2)  (C2)  (C3)  (C3)	ery (C9	9)	
PROLOG  Itland Hye mary India  Surface High V Satura  Water Sedim Drift D Algal I Iron D Surface Inunda Spars  Id Obser  face Wat	drology Indicators cators (minimum of ope 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 Aeriely Vegetated Concevations: er Present?	: one requ ial Image cave Surf	uired; chedery (B7) face (B8)	ck all tha	at apply)  Water-Stain (except MI Salt Crust ( Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Ode thizosphere of Reduced n Reductio Stresses Felain in Ren (inches):	es (B9)  4A, and 4  5 (B13)  or (C1)  es along  d Iron (C4)  on in Tilled	natrix colors.  4B)  Living Roots (44)  d Soils (C6)	Section	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Aer Position (D2) itard (D3) Test (D5) Mounds (D6)	39)  (C2)  (C3)  (A)  (C2)  (C2)  (C3)  (C3)	ery (C9	)))	
DROLOG  Stland Hym mary India  Surface High N Satura Water Sedim Drift E Algal I Iron D Surface Inunda Spars  Id Obser  rface Wat ater Table	drology Indicators cators (minimum of one Water (A1) Water Table (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Dee Soil Cracks (B6) ation Visible on Aericle Vegetated Concevations: er Present?	ial Image cave Surf Yes [	ery (B7) face (B8)	ck all tha	at apply)  Water-Stain (except MI Salt Crust ( Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Ode chizosphere of Reduced n Reductio Stresses F clain in Ren (inches):	es (B9)  4A, and 4  5 (B13)  or (C1)  es along  d Iron (C4)  on in Tilled	AB) Living Roots ((1) d Soils (C6) 1) (LRR A)	Sect	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Ael Position (D2 itard (D3) Test (D5) Mounds (D6) Hummocks	39)  (C2)  (C2)  (a)  (LRR A)  (D7)	ery (C9		
PROLOG  Stland Hye mary Indic  Surface High V Satura  Water Sedim Drift D Surface Inunda Spars  Id Obser rface Wat ster Table turation P	drology Indicators cators (minimum of one Water (A1) Water Table (A2) ation (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Dee Soil Cracks (B6) ation Visible on Aericle Vegetated Concevations: er Present?	ial Image cave Surf Yes [	uired; chedery (B7) face (B8)	ck all tha	at apply)  Water-Stain (except MI Salt Crust ( Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Ode thizosphere of Reduced n Reductio Stresses Felain in Ren (inches):	es (B9)  4A, and 4  5 (B13)  or (C1)  es along  d Iron (C4)  on in Tilled	AB) Living Roots ((1) d Soils (C6) 1) (LRR A)	Sect	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Ael Position (D2 itard (D3) Test (D5) Mounds (D6) Hummocks	39)  (C2)  (C3)  (A)  (C2)  (C2)  (C3)  (C3)	ery (C9	No.	
PROLOG  Itland Hymary India  Surface  High N  Satura  Water  Sedim  Drift D  Algal I  Iron D  Surface  Inunda  Spars  Id Obser  face Wat  Iter Table  Luration P	drology Indicators cators (minimum of ope 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 Aeriely Vegetated Concevations: er Present? Present?	ial Image cave Surf Yes [ Yes [	ery (B7) Gace (B8) No	ck all tha	at apply)  Water-Stain (except MI Salt Crust ( Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp  Depth Depth	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Ode thizosphere of Reduced in Reductio Stresses Felain in Ren (inches): (inches): (inches):	es (B9)  4A, and 4  s (B13) or (C1) es along d Iron (C4 on in Tillec Plants (D- marks)	AB) Living Roots ((4) d Soils (C6) 1) (LRR A)	Second Control of the	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Ael Position (D2 itard (D3) Test (D5) Mounds (D6) Hummocks	39)  (C2)  (C2)  (a)  (LRR A)  (D7)	ery (C9		
Section Polludes capital description polludes	drology Indicators cators (minimum of oce 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 Aeriely Vegetated Concevations: er Present? Present? Yessent? Yessent?	ial Image cave Surf Yes [ Yes [	ery (B7) Gace (B8) No	ck all tha	at apply)  Water-Stain (except MI Salt Crust ( Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp  Depth Depth	ned Leave LRA 1, 2, 4 (B11) vertebrates Sulfide Ode thizosphere of Reduced in Reductio Stresses Felain in Ren (inches): (inches): (inches):	es (B9)  4A, and 4  s (B13) or (C1) es along d Iron (C4 on in Tillec Plants (D- marks)	AB) Living Roots ((4) d Soils (C6) 1) (LRR A)	Second Control of the	Water-Staine (MLRA 1, 2, Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutral Raised Ant N Frost-Heave	ed Leaves (E 4A, and 4B tterns (B10) Water Table isible on Ael Position (D2 itard (D3) Test (D5) Mounds (D6) Hummocks	39)  (C2)  (C2)  (a)  (LRR A)  (D7)	ery (C9		

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-24-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 41</u>	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>WM</u>	
Landform (hillslope, terr	race, etc.): <u>Hillslope</u>		Local	relief (conca	ve, convex, none): <u>convex</u>	Slope	: (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	-15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrologic	c conditions on the site typical for	this time of y	ear? Ye	s 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation $\square$ ,	Soil □, or Hydrology [	☐, significa	intly disturbed?	? Are "N	Iormal Circumstances" present	t? Yes	⊠ No	
Are Vegetation $\square$ ,	Soil □, or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in R	emarks.)		
SUMMARY OF FINE	DINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetation	Present?	Yes	No ⊠		lad Assa			
Hydric Soil Present?		Yes 🗌		s the Sampl within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pre	sent?	Yes 🗌	No 🛛					
Remarks: North Kitsa	ap United (NK United) is located a	long Stottlem	eyer Road and	Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided	into
three segm	nents, most of which are either cle	ar cut or fore	sted. Test Plo	t 41 is locate	d towards the north border of t	he north segment.		
VEGETATION - Use	scientific names of plants							
Tree Stratum (Plot size	e: 30' diameter)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Workshee	t:		
1. <u>Alnus rubra</u>		10	<u>yes</u>	FAC	Number of Dominant Species	e		
2		_			That Are OBL, FACW, or FA			(A)
3.					Total Number of Dominant			
4.					Species Across All Strata:	<u>6</u>		(B)
50% = <u>5</u> , 20% = <u>2</u>		10	= Total Cover	 r	Percent of Dominant Species	\$		
	n (Plot size: 20' diameter)	_			That Are OBL, FACW, or FA			(A/B)
Vaccinium ovatum		<u>15</u>	<u>yes</u>	FACU	Prevalence Index workshee	 et:		
2. Gaultheria shallon	="	<u>5</u>	yes	FACU	Total % Cover of	of: Multip	ly by:	
Oemleria cerasifor	•	<u>5</u>	ves	FACU	OBL species	x1 =		
4.					FACW species	x2 =		
5					FAC species	_ x3 =		
50% = <u>12.5</u> , 20% = <u>5</u>		<u>25</u>	= Total Cover	r	FACU species	x4 =		
Herb Stratum (Plot siz	e: 10' diameter)				UPL species	x5 =		
1. Polystichum munit		<u>50</u>	<u>yes</u>	FACU	Column Totals:	(A)	· <u>·</u>	(B)
2. Rubus ursinus	<u></u>	<u>15</u>	<u>yes</u>	FACU		ce Index = B/A =		(-)
Digitalis purpurea		<u>10</u> 5	no no	FACU	Hydrophytic Vegetation Inc			
4.		<u>u</u>	110	17100	☐ 1 – Rapid Test for Hyd			
5.					2 - Dominance Test is			
6.								
7.					•	<del>-</del>		
8.						otations¹ (Provide suppo on a separate sheet)	rting	
9					☐ 5 - Wetland Non-Vascu			
					_			
10					☐ Problematic Hydrophyt	ic Vegetation¹ (Explain)		
11		70			<sup>1</sup> Indicators of hydric soil and	wetland hydrology must		
50% = <u>35</u> , 20% = <u>14</u>	'Diet eizer	<u>70</u>	= Total Cover		be present, unless disturbed	or problematic.		
Woody Vine Stratum (	FIOL SIZE)							
1			_		Hydrophytic			
2			<del></del>		Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% = _			= Total Cover	1	Present?			
% Bare Ground in Her	_							
Remarks: T	he hydrophytic vegetation criteria	is not met be	ecause there is	less than 50	% dominance by FAC plant sp	ecies.		

SOIL Sampling Point: TP 41 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 silt loam 0-2 100 2-16 10YR 4/6 <u>100</u> sa silt loam with rocks sa - sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site: <u>NK United</u>			City/Count	ty: <u>Poulsbo/Kitsap</u> Sampling Date: <u>10</u>	0-24-23
Applicant/Owner: Raydient				State: <u>WA</u> Sampling Point: <u>TF</u>	P 42
Investigator(s): <u>J. Bartlett, M. Mill</u>				Section, Township, Range: S 31 T 27 N R 2 EWM	<u>1</u>
Landform (hillslope, terrace, etc.): Hillslope		Loca	I relief (conca	ave, convex, none): <u>convex</u> Slope (%)	): <u>5</u>
Subregion (LRR): MLRA 2	Lat:	_		Long: Datum:	_
Soil Map Unit Name: Poulsbo gravelly sandy loam, 6	15% slopes	<u>i</u>		NWI classification: None	
Are climatic / hydrologic conditions on the site typical for	this time of y	rear? Ye	es 🛛	No	
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 Remarks.)	
SUMMARY OF FINDINGS – Attach site map sh	nowing san	pling point	locations,	transects, important features, etc.	
Hydrophytic Vegetation Present?	Yes	No 🛛	Is the Samp	led Area	
Hydric Soil Present?	Yes	NO 🗵	within a Wet		No 🛛
Wetland Hydrology Present?	Yes 🗌	No 🛛			
				between Poulsbo and Kingston. The site is large so was o	divided into
three segments, most of which are either co	ear cut or fore	ested. Test Pic	ot 42 is locate	ed on the mapped stream in the north segment.	
VEGETATION – Use scientific names of plants		Daminant	l	Г	
<u>Tree Stratum</u> (Plot size: <u>30' diameter</u> )	Absolute <u>% Cover</u>	Dominant Species?	Indicator <u>Status</u>	Dominance Test Worksheet:	
1. Pseudotsuga menziesii	<u>20</u>	<u>yes</u>	<u>FACU</u>	Number of Dominant Species	(A)
2				That Are OBL, FACW, or FAC:   □	(A)
3				Total Number of Dominant	(B)
4				Species Across All Strata:	(5)
50% = <u>10</u> , 20% = <u>4</u>	<u>20</u>	= Total Cove	er	Percent of Dominant Species	(A/B)
Sapling/Shrub Stratum (Plot size: 20' diameter)				That Are OBL, FACW, or FAC:	( /
1. <u>Vaccinium parvifolium</u>	<u>10</u>	<u>yes</u>	<u>FACU</u>	Prevalence Index worksheet:	
2. <u>Gaultheria shallon</u>	<u>5</u>	<u>yes</u>	<u>FACU</u>	Total % Cover of: Multiply by	<u>V:</u>
3				OBL species x1 = _	
4				FACW species x2 = _	
5				FAC species x3 =	
50% = <u>10</u> , 20% = <u>4</u>	<u>20</u>	= Total Cove	er	FACU species x4 = _	
Herb Stratum (Plot size: 10' diameter)				UPL species x5 =	
1. <u>Polystichum munitum</u>	<u>30</u>	<u>yes</u>	<u>FACU</u>	Column Totals:(A)	(B)
2. <u>Rubus ursinus</u>	<u>15</u>	<u>yes</u>	<u>FACU</u>	Prevalence Index = B/A =	
3				Hydrophytic Vegetation Indicators:	
4				☐ 1 – Rapid Test for Hydrophytic Vegetation	
5				2 - Dominance Test is >50%	
6				☐ 3 - Prevalence Index is ≤3.0¹	
7				4 - Morphological Adaptations¹ (Provide supporting	j
8				data in Remarks or on a separate sheet)	
9				5 - Wetland Non-Vascular Plants <sup>1</sup>	
10				☐ Problematic Hydrophytic Vegetation¹ (Explain)	
11				<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
50% = <u>22.5</u> , 20% = <u>9</u>	<u>45</u>	= Total Cove	er	be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size:)					
1				Hydrophytic	
2				Hydrophytic  Vegetation  Yes  □  N	No 🛛
50% =, 20% =		= Total Cove	er	Present?	
% Bare Ground in Herb Stratum <u>55</u>					
Remarks: The hydrophytic vegetation criteria	a is not met b	ecause there is	s less than 50	0% dominance by FAC plant species.	

SOIL Sampling Point: TP 42 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 silt loam 0-3 100 3-16 10YR 4/6 <u>50</u> 7.5YR 4/6 1 С M sa silt loam 10YR 5/6 sa - sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United						City/Coun	ty: <u>Pou</u>	lsbo/Kitsa	<u>ıp</u>	Samplin	g Date:	10-24-	-23
Applicant/Owner:	Raydient								St	ate: <u>WA</u>	Samplin	g Point:	TP 43	
Investigator(s):	J. Bartlett, M. M	<u>lill</u>						S	ection, To	wnship, Ran	ige: <u>S 31</u>	T 27 N R 2 E	<u> </u>	
Landform (hillslope, ter	rrace, etc.): <u>H</u>	<u>lillslope</u>				Loca	al relief (conca	ve, conve	ex, none):	convex		Slope	e (%): <u>5</u>	<u>5</u>
Subregion (LRR):	MLRA 2		Lat:		_			Long:				Datum:		
Soil Map Unit Name:	Poulsbo grave	elly sandy loam, 6	615% sl	opes						NWI clas	ssification:	None None		
Are climatic / hydrologi	c conditions on t	he site typical for	this time	e of ye	ear?	Υ	es 🛛	No	☐ (If	no, explain	in Remark	(s.)		
Are Vegetation $\square$ ,	Soil □,	or Hydrology	□, sig	gnifica	intly di	sturbec	d? Are "N	Normal Ci	rcumstan	ces" present	?	Yes	⊠ N	No 🗆
Are Vegetation $\square$ ,	Soil □,	or Hydrology	□, na	turally	y probl	ematic	? (If nee	eded, exp	lain any a	nswers in R	emarks.)			
SUMMARY OF FIN	DINGS - Attac	ch site map sl	nowing	sam	pling	point	locations,	transec	ts, impo	rtant featu	ıres, etc.	•		
Hydrophytic Vegetation	n Present?		Yes		No	$\boxtimes$	1. 11 0							
Hydric Soil Present?			Yes		No	$\boxtimes$	Is the Samp within a We					Yes		No 🛛
Wetland Hydrology Pre	esent?		Yes		No	$\boxtimes$								
Remarks: North Kits	ap United (NK U	nited) is located	along Sto	ottlem	eyer R	Road ar	nd Bond Road	between	Poulsbo	and Kingstor	n. The site	e is large so v	vas divid	led into
three segr	ments, most of w	hich are either cl	ear cut o	r fore	sted.	Test Pl	ot 43 is locate	d in a de	ciduous a	rea in the no	rtheast co	rner of the no	orth segr	nent.
VEGETATION - Use	scientific na	mes of plants												
Tree Stratum (Plot siz	ze: <u>30' diameter</u> )		Absolu <u>% Cov</u>		Domi Spec		Indicator <u>Status</u>	Domin	ance Tes	t Workshee	t:			
1. Alnus rubra			15	CI	yes	103:	FAC	Numbo	r of Domi	nant Species				
Tsuga heterophyli	la		10		ves		FACU			ACW, or FA		<u>2</u>		(A)
3.	_				_			Total N	umber of	Dominant				
4.									s Across A			<u>4</u>		(B)
50% = <u>17.5</u> , 20% = <u>7</u>			35		= Tot	al Cove	er	Percen	t of Domir	nant Species				
Sapling/Shrub Stratur		diameter)	_							ACW, or FAC		<u>50</u>		(A/B)
Rubus spectabilis			<u>15</u>		yes		FAC	Prevale	ence Inde	x workshee	et:			
2			_						Tota	al % Cover o	f:	Multip	oly by:	
3.								OBL sp			_	x1 =		_
4.								· ·	species		_	x2 =		_
5.								FAC sp	•		_	x3 =		_
50% = <u>7.5</u> , 20% = <u>3</u>			15		= Tot	al Cove	er	FACU			_	x4 =		_
Herb Stratum (Plot siz	ze· 10' diameter)							UPL sp	•		-	x5 =		_
Polystichum muni			50		yes		FACU				(A)			— (B)
	<u>tam</u>		<u>50</u>		<u>y03</u>		17100	Column	n Totals:	Prevalenc		D/Λ -	-	_ (b)
<u></u> -								Herder	- l 4' - 1/-			D/A =		
3								l ·	-	getation Ind				
4								l	-	Test for Hydr		egetation		
5							—		- Domina	nce Test is >	>50%			
6								∐ 3	- Prevale	nce Index is	<u>&lt;</u> 3.0¹			
7												rovide suppo	rting	
8							—			Remarks or o	•	-		
9								□ 5	- Wetland	d Non-Vascu	lar Plants	1		
10								□ Р	roblemati	c Hydrophyti	c Vegetati	ion¹ (Explain)		
11								1 ndicat	toro of by	dria aail and s	uetland hu	idrala mi marra		
50% = <u>25</u> , 20% = <u>10</u>			<u>50</u>		= Tot	al Cove	er			ss disturbed		ydrology mus natic.	L	
Woody Vine Stratum	(Plot size:	_)												
1														
2								Hydrop	-		V		NI-	<b>5</b> 7
50% =, 20% =					= Tot	al Cove	er	Vegeta			Yes		No	
% Bare Ground in He	rb Stratum 50							1103011						
		vegetation criteri	a is not n	net be	ecause	there	is less than 50	l )% domin	ance by F	AC plant sn	ecies.			
% Bare Ground in He		vegetation criteri	a is not n	net be				Presen		FAC plant sp	ecies.			

SOIL Sampling Point: TP 43 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Texture % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/1 sa silt loam 0-3 100 <u>3-7</u> 10YR 6/2 95 10YR 5/4 5 С M sandy loam 7-16 10YR 5/3 69 7.5YR 4/6 1 <u>C</u> Μ sandy loam 10YR 4/6 30 sa - sandy <sup>2</sup>Location: PL=Pore Lining, M=Matrix, RC=Root Channel <sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) Thick Dark Surface (A12) <sup>3</sup>Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) (except MLRA 1, 2, 4A, and 4B) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Section, Township, Range: Sait 127 N R 2 EWM	Project Site:	NK United						City/Count	y: <u>Pou</u>	ılsbo/Kitsa	<u>ap</u>	Samplir	ng Date:	10-24-	<u>-23</u>
Landform (Pillalope, termane, etc.)   Hillalope   Lat:	Applicant/Owner:	Raydient								St	tate: <u>WA</u>	Samplir	ng Point:	<u>TP 44</u>	•
Submeyor   Name	Investigator(s):	J. Bartlett, M. M	<u>/III</u>						S	Section, To	ownship, Rar	nge: <u>S 3</u>	1 T 27 N R 2	<u>EWM</u>	
Solid Map to Name	Landform (hillslope, ter	rrace, etc.): <u></u>	<u> Hillslope</u>				Loca	al relief (conca	ive, conv	ex, none):	: <u>convex</u>		Slope	e (%): <u>5</u>	<u>;</u>
Are climatic / hydrologic conditions on the site typical for this time of year?   Yes   No   (If no, explain in Remarks.)   Are Normal Circumstances* present?   Yes   No   Are Normal Circumstances* present?   Yes   No   Are Normal Circumstances* present?   Yes   No   No   No   No   No   No   No   N	Subregion (LRR):	MLRA 2		Lat:		_			Long:				Datum:		
Sol	Soil Map Unit Name:	Poulsbo grave	elly sandy loam, 6	615% sl	lopes						NWI cla	ssification	: <u>None</u>		
SumMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.	Are climatic / hydrologi	c conditions on t	the site typical for	this time	e of y	ear?	Y	es 🛛	No	☐ (If	f no, explain	in Remar	ks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.  Hydricoptylic Vegetation Present?  Yes   No   2   Is the Sampled Area within a Wetland?  Wetland Hydrology Present?  Wes   No   2   Is the Sampled Area within a Wetland?  Wetland Hydrology Present?  We	Are Vegetation $\square$ ,	Soil □,	or Hydrology	□, sig	gnifica	ntly dis	sturbed	l? Are "N	Normal Ci	ircumstan	ices" present	?	Yes	M M	1o 🗆
Hydric Vegetation Present?    Yes	Are Vegetation □,	Soil □,	or Hydrology	□, na	turally	y probl	ematic′	? (If nee	eded, exp	olain any a	answers in R	emarks.)			
Hydric Vegetation Present?    Yes															
Second   Present   Present   Present   Preser   Presert   Preser			ch site map sh			•		locations,	transec	ts, impo	ortant featu	ures, etc	<b>:</b> .		
Wetland Hydrology Present?  Ves   No     Wetland Wydrology Present?  Remarks: North Kitsap United (NK United) is located along Stottlemeyer Road and Bond Road between Poulsbo and Kingston. The site is large so was divided into three segments, most of which are either idear out of forested. Test Plot 44 is located in a ravine near the middle of the north segment.  **Tee Stratum (Plot size: 20 diameter)  1	, , , ,	1 Present?					_	Is the Samp	led Area						
Remarks: North Kitsap United (NK United) is located along Stottlemeyer Road and Bond Road between Poulsbo and Kingston. The site is large so was divided into three segments, most of which are either clear cut or forested. Test Plot 44 is located in a ravine near the middle of the north segment.    Peter Stratum (Plot size: 30' diameter)	•												Yes	⊔ <b>N</b>	10 🕅
Tree Stratum (Plot size: 30' diameter)	Wetland Hydrology Pre	esent?		Yes	Ц	No	$\bowtie$								
Tree Stratum (Plot size: 30' diameter)														was divid	led into
Dominant	unec segn	nonto, most or w	villori die citilei oi	cai out o	,, 1010	otcu.	103111	01 44 13 100010	u iii u iu	viile fiedi	are middle o	i uic noru	r segment.		
Dominant	VEGETATION - Use	a scientific na	mae of plante												
1.				Absolu					Domin	ance Tes	t Workshee	t:			
2.					<u>/er</u>		ies?								
Total Number of Dominant Species Across All Strata:		<u>iziesii</u>		15		<u>yes</u>		FACU					<u>0</u>		(A)
Species Across All Strata:   All										,	,	·			
50% = 7.5. 20% = 3	· <u>·····</u>												<u>3</u>		(B)
Sapilina   Stratum   Plot size: 20' diameter)   1.   Vaccinium ovatum   20   yes   FACU   Prevalence Index worksheet:   Total % Cover of:   Multiply by:   Nultiply by:				15			al Cove		,						
1. \( \frac{\text{Veccinium ovatum}}{2} \) \(	<del></del>	m (Plot size: 20'	diameter)	<u>13</u>		- 100	ai Cove	51					<u>0</u>		(A/B)
2. Gautheria shallon  5. yes FACU  Cobress   Total % Cover of:   Multiply by:    3.	-		<u>didiffictor</u> )	20		VAS		FACII			-				
3.	<u> </u>	<del>-</del>							1 i cvai				Multir	oly by:	
4		<u>.</u>		<u>~</u>		<u>ycs</u>		17100	∩RI sr		ui 70 00VCi 0	<u></u>		Jiy by.	
5												_			_
50% = 12.5, 20% = 5 Herb Stratum (Plot size: 10' diameter)  1										-		_			_
UPL species				25		= Tot	al Cove					_			_
Column Totals:			١	<u></u>		100	u. 0010	21		•		_			_
2.		e. <u>10 diameter</u> )	,						·			- (A)	X0 -		_ (D)
3.									Column	n rotais:	Dravalana		. D/A =		_ (D)
4													B/A =		
5										-	_				
6	· —									-	-		egetation		
7	5								□ 2	? - Domina	ance Test is :	>50%			
8	6								□ 3	- Prevale	ence Index is	<u>&lt;</u> 3.0¹			
9				-	-				□ 4					orting	
10					•										
11									_						
50% =, 20% = = Total Cover  Woody Vine Stratum (Plot size:)  1 2 = Total Cover  Bare Ground in Herb Stratum 100  The budgraphytic vegetation exitaria is not met because there is less than 50% deminates by EAC short exercise.	' <u></u> '								р Р	roblemati	ic Hydrophyt	ic Vegeta	tion¹ (Explain)	)	
Woody Vine Stratum (Plot size:)  1 2 50% =, 20% = = Total Cover Present?  Hydrophytic Vegetation Yes  No   Present?							al Cove	<del></del>	1Indica	tors of hyd	dric soil and	wetland h	ydrology mus	it	
1	<u></u> -	·	`			- 100	ai Cove	51	be pres	sent, unles	ss disturbed	or proble	matic.		
2		(Plot size:	_)												
So% =, 20% = = Total Cover	·								Hydroi	phytic					
% Bare Ground in Herb Stratum 100  The hydrophytic vegetation criteria is not met because there is less than 50% deminance by EAC plant appeirs.	·									-		Yes		No	
The hydrophytic vegetation exitoric is not met because there is less than 50% deminance by EAC plant appeiles						= I ot	al Cove	er	Preser	nt?					
Remarks: The hydrophytic vegetation criteria is not met because there is less than 50% dominance by FAC plant species.															
	Remarks:	Γhe hydrophytic	vegetation criteria	a is not r	net be	ecause	there i	s less than 50	)% domir	nance by F	FAC plant sp	ecies.			

nches)	Color (moist)	9/	6	Color (r	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	_ Texture	9		Remarks	3		
0-2	10YR 2/1	10	00						sa silt lo						
2-16	10YR 5/4	8	<u>85</u>	10YR	<u>4/6</u>	<u>3</u>	<u>C</u>	<u>M</u>	sa silt lo	oam					
<u> </u>	10YR 5/1		2							_					
					_					_					
		_			_					_					
		_			_										
		_			_					_					
		_	_		_										
pe: C= Co	ncentration, D=De	pletion,	, RM=R	teduced Ma	atrix, CS	=Covered or Co	ated Sand	d Grains. <sup>2</sup> L		=Pore Lining,				nel	
	ndicators: (Applic	cable to	all LR			· ·				cators for Pro		Hydric S	ioils³:		
Histoso						dy Redox (S5)				2 cm Muck	, ,				
	pipedon (A2)				-	oped Matrix (S6)					t Material (	•			
	listic (A3)					my Mucky Miner	. , .	ccept MLRA 1)		=	ow Dark Su		=12)		
	en Sulfide (A4)					my Gleyed Matri				Other (Exp	lain in Rem	narks)			
-	ed Below Dark Surf		11)		-	oleted Matrix (F3)									
	ark Surface (A12)					lox Dark Surface	` ,		31 m al	inatora of buds	anhutia uaa	atation .	- m d		
-	Mucky Mineral (S1	•			-	leted Dark Surfa				icators of hydr vetland hydrol					
	Gleyed Matrix (S4)				Red	lox Depressions	(F8)	<u> </u>	ι	ınless disturbe	ed or proble	matic.			
	ayer (if present):														
e:												_			
	s):	eets no	one of th	ne hydric so	oil indica	ators because of	the high n	Hydric Soils I	Present?		Yes		No		
pth (inches marks: DROLOG	This soil profile mo		one of the	he hydric so	oil indica	ators because of	the high n		Present?		Yes		NO		
PROLOG'	This soil profile mo	s:					the high n			ndary Indicato					
PROLOG etland Hyd mary Indica	This soil profile months and profile months are soil profile months and profile months are soil profil	s:		check all th	nat apply	y)			Seco	ndary Indicato Water-Stained	rs (2 or moi	re require			
PROLOG tland Hyd mary Indica Surface	Y rology Indicators ators (minimum of	s:			nat apply Wat	y) er-Stained Leave	es (B9)	natrix colors.	Seco	Water-Stained	rs (2 or moi d Leaves (B	re require			
ROLOG' tland Hyd mary Indica Surface High W	This soil profile months and profile months are soil p	s:		check all th	nat apply Wat <b>(exc</b>	y) er-Stained Leave cept MLRA 1, 2,	es (B9)	natrix colors.	Secon	Water-Stained	rs (2 or moi d Leaves (E IA, and 4B,	re require			
PROLOG tland Hyd mary Indica Surface High W Satura	Y  rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3)	s:		check all th	nat apply Wat (exc Salt	y) er-Stained Leave cept MLRA 1, 2, Crust (B11)	es (B9) <b>4A, and</b> 4	natrix colors.	Secol	Water-Stained (MLRA 1, 2, 4 Drainage Patt	rs (2 or moi d Leaves (B <b>IA, and 4B</b> ) erns (B10)	re require 39)			
PROLOGY tland Hyd mary Indica Surface High W Satural Water	Y rology Indicators ators (minimum of e Water (A1) //ater Table (A2) tion (A3) Marks (B1)	s:		check all th	nat apply Wat ( <b>exc</b> Salt Aqu	y) er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrate:	es (B9) <b>4A, and 4</b> s (B13)	natrix colors.	Secon	Water-Stained	rs (2 or mod d Leaves (B <b>IA, and 4B</b> derns (B10) Vater Table	re require 39) ) (C2)	ed)	))	
PROLOG tland Hyd mary Indica Surface High W Satura Water	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	s:		check all th	nat apply Wat (exc Salt Aqu Hyd	er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrates rogen Sulfide Oc	es (B9) <b>4A, and 4</b> s (B13)  dor (C1)	natrix colors.	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis	rs (2 or moi d Leaves (E IA, and 4B; terns (B10) Vater Table sible on Aer	re require 39) ) (C2) ial Image	ed)	))	
PROLOG Itland Hyd mary Indica Surface High W Satura Water I Sedime Drift De	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	s:		check all th	nat apply Wat (exc Salt Aqu Hyd	er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrates rogen Sulfide Oc dized Rhizospher	es (B9) 4A, and 4 s (B13) dor (C1) res along	natrix colors.  4B)  Living Roots (C:	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F	rs (2 or moi d Leaves (E IA, and 4B; terns (B10) Vater Table sible on Aer Position (D2	re require 39) ) (C2) ial Image	ed)	))	
PROLOG Stland Hyd mary Indica Surface High W Satural Water Sedime Drift De Algal M	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4)	s:		check all th	mat apply Wat (exc Salt Aqu Hyd Oxic	y) er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrate trogen Sulfide Oc dized Rhizospher sence of Reduce	es (B9)  4A, and 4  s (B13) dor (C1) res along dd Iron (C4	natrix colors.  4B)  Living Roots (C:	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit	rs (2 or moi d Leaves (B IA, and 4B, erns (B10) Vater Table sible on Aer Position (D2 ard (D3)	re require 39) ) (C2) ial Image	ed)	))	
PROLOG Stland Hyd mary Indica Surface High W Satural Water I Sedime Drift De Algal M Iron De	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	s: one rec		check all th	mat apply Wate (exc Salt Aque Hyd Oxic Pres	y) er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrates rogen Sulfide Oc dized Rhizospher sence of Reduce cent Iron Reduction	es (B9)  4A, and 4  s (B13) dor (C1) res along ed Iron (C4 on in Tilleto	AB) Living Roots (C:	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	rs (2 or more declaration of the series (B10) and the sible on Aere declaration (D2) ard (D3) Test (D5)	re require 39) ) (C2) ial Image	ed) ery (C9	))	
PROLOGY tland Hyd mary Indica Surface High W Satural Water   Sedime Drift De Algal M Iron De	This soil profile more and the soil profile more actors (minimum of the Water (A1) (Ater Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A4) (A3) (A4) (A4) (A4) (A4) (A4) (A4) (A4) (A4	s: one rec	quired;	check all tr	nat apply Wate (exc Salt Aque Hyd Oxic Pres Rec Stur	y) er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrate trogen Sulfide Oc dized Rhizospher sence of Reduce	es (B9)  4A, and 4  s (B13) dor (C1) res along ed Iron (C4 on in Tilled	AB) Living Roots (C:	Secol	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit	rs (2 or more declaration of the state of th	re require 39) ) (C2) ial Image 2)	ed) ery (C9	))	
PROLOG' tland Hyd mary Indica Surface High W Saturar Water   Sedime Drift De Algal M Iron De Surface Inunda	Y rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6)	s: one rec	quired;	check all tr	nat apply Wate (exc Salt Aque Hyd Oxic Pres Rec Stur	er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrates frogen Sulfide Oc dized Rhizospher sence of Reduce ent Iron Reduction	es (B9)  4A, and 4  s (B13) dor (C1) res along ed Iron (C4 on in Tilled	AB) Living Roots (C:	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	rs (2 or more declaration of the state of th	re require 39) ) (C2) ial Image 2)	ed) ery (C9	))	
PROLOG Patland Hyde mary Indica Surface High W Saturar Water I Sedime Drift De Algal M Iron De Surface Inunda	rology Indicators ators (minimum of a Water (A1) / vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aer ly Vegetated Conciliators	s: one rec	quired;	check all tr	nat apply Wate (exc Salt Aque Hyd Oxic Pres Rec Stur	er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrates frogen Sulfide Oc dized Rhizospher sence of Reduce ent Iron Reduction	es (B9)  4A, and 4  s (B13) dor (C1) res along ed Iron (C4 on in Tilled	AB) Living Roots (C:	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	rs (2 or more declaration of the state of th	re require 39) ) (C2) ial Image 2)	ed) ery (C9	))	
PROLOGI Itland Hyd mary Indica Surface High W Satural Water I Sedime Drift De Algal M Iron De Surface Inunda Sparse	This soil profile more ators (minimum of e Water (A1) / vater Table (A2) / vater Table (A2) / vater Deposits (B2) / vater Deposits (B3) / vater Table (B4) / vater Table (B4) / vater Deposits (B5) / vater Deposits (B5) / vater Deposits (B5) / vater Deposits (B5) / vater Deposits (B6) /	s: one rec	quired;	check all tr	mat apply Wate (exc Salt Aque Hyd Oxic Pres Rec Stur Othe	er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrates frogen Sulfide Oc dized Rhizospher sence of Reduce ent Iron Reduction	es (B9)  4A, and 4  s (B13) dor (C1) res along ed Iron (C4 on in Tilled	AB) Living Roots (C:	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	rs (2 or more declaration of the state of th	re require 39) ) (C2) ial Image 2)	ed) ery (C9	))	
PROLOGI Itland Hyd mary Indica Surface High W Satural Water I Sedime Drift De Algal M Iron De Surface Inunda Sparse	This soil profile more and the soil profile more actors (minimum of the Water (A1) (Ater Table (A2) (A3) (A3) (A4) (A3) (A4) (A4) (A4) (A4) (A4) (A4) (A4) (A4	s: one rec rial Imaç cave Su	quired; gery (B urface (	check all tr	mat apply Wat (exc Salt Aqu Hyd Oxic Pres Rec Stur Othe	er-Stained Leave cept MLRA 1, 2, Crust (B11) latic Invertebrate: lrogen Sulfide Oc dized Rhizospher sence of Reduce lent Iron Reduction ted or Stresses er (Explain in Re	es (B9)  4A, and 4  s (B13) dor (C1) res along ed Iron (C4 on in Tilled	AB) Living Roots (C:	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	rs (2 or more declaration of the state of th	re require 39) ) (C2) ial Image 2)	ed) ery (C9	))	
PROLOGI Mary Indica Surface High W Satural Water I Sedime Drift De Algal M Iron De Surface Inunda Sparse Id Observe face Water	rology Indicators ators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aerely Vegetated Concations:	one rec	quired; gery (B urface (	check all tr	mat apply Wate (exc Salt Aqu Hyd Oxic Pres Rec Stur Othe	y) er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrates rogen Sulfide Oc dized Rhizospher sence of Reduce cent Iron Reduction ted or Stresses er (Explain in Re	es (B9)  4A, and 4  s (B13) dor (C1) res along ed Iron (C4 on in Tilled	AB) Living Roots (C:	Secon Control	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	rs (2 or mor d Leaves (B IA, and 4B, terns (B10) Vater Table sible on Aer Position (D2 ard (D3) Test (D5) ounds (D6) Hummocks	re require 39) ) (C2) ial Image 2)	ed) ery (C9	No.	
PROLOGO  Stland Hyde  Mary Indicate  Surface  High W  Saturate  Sedime  Drift De  Algal M  Iron De  Surface  Inunda  Sparsee  Id Observe  face Water  ter Table Featuration Procludes cap	This soil profile more and the soil profile more actors (minimum of the Water (A1) (A2) (A3) (A3) (A3) (A3) (A4) (A3) (A4) (A4) (A4) (A4) (A4) (A4) (A4) (A4	one reconstruction of the control of	quired; gery (B urface (	check all tr	nat apply Wat (exc Salt Aqu Hyd Oxic Pres Rec Stur Othe	y) er-Stained Leave cept MLRA 1, 2, Crust (B11) atic Invertebrates rogen Sulfide Oc dized Rhizospher sence of Reduce ent Iron Reduction ted or Stresses er (Explain in Re  Depth (inches): Depth (inches):	es (B9)  4A, and 4 s (B13) dor (C1) res along del Iron (C4 on in Tillec Plants (D	AB) Living Roots (C:	Secon Control	Water-Stained (MLRA 1, 2, 4) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave H	rs (2 or mor d Leaves (B IA, and 4B, terns (B10) Vater Table sible on Aer Position (D2 ard (D3) Test (D5) ounds (D6) Hummocks	re require (C2) ial Image (2) (LRR A	ed) ery (C9	,	

Project Site:	NK United						City/Coun	ty:	Pouls	sbo/Kitsa	<u>ap</u>	S	Sampling	Date:	<u>10-2</u>	<u> 24-23</u>	
Applicant/Owner:	Raydient									St	tate: WA	<u>A</u> S	Sampling	Point:	TP.	<u>45</u>	
Investigator(s):	J. Bartlett, M. M	<u>iill</u>							Se	ction, To	ownship,	Range	: <u>S 31 7</u>	Г 27 N R 2 I	<u>EWM</u>		
Landform (hillslope, terr	race, etc.): <u></u>	<u>lillslope</u>				Local	relief (conca	ave,	conve	x, none)	: con	vex		Slope	e (%):	<u>5</u>	
Subregion (LRR):	MLRA 2		Lat:		_			L	ong:					Datum:			
Soil Map Unit Name:	Poulsbo grave	lly sandy loam, 6	15% sl	lopes							NWI	I classif	ication:	<u>None</u>			
Are climatic / hydrologic	c conditions on t	he site typical for	this time	e of ye	ear?	Υe	es 🛛	1	No	☐ (I	f no, exp	olain in I	Remarks	.)			
Are Vegetation □,	Soil □,	or Hydrology	□, sig	gnifica	ntly dis	sturbed'	? Are "I	Norm	nal Cir	cumstan	ces" pre	sent?		Yes	$\boxtimes$	No	
Are Vegetation □,	Soil □,	or Hydrology	□, na	turally	/ proble	ematic?	(If ne	eded	d, expl	ain any a	answers	in Rem	arks.)				
SUMMARY OF FINE	DINGS - Attac	ch site map sh	owing	sam	pling	point	locations,	trar	nsect	s, impo	ortant fe	eature	s, etc.				
Hydrophytic Vegetation			Yes		. No	🛛											
Hydric Soil Present?			Yes		No		Is the Samp							Yes		No	$\boxtimes$
Wetland Hydrology Pre	sent?		Yes		No		within a We	tland	d?								_
		nitad) ia laastad s					d Dand Dage	d bat		Daulaha	and Kina	anton '	The site i	ia larga aa v	الم ممان	امما	into
Remarks: North Kitsa three segm		nited) is located a hich are either cle													was di	viaea	into
										••			Ü				
VEGETATION - Use		mes of plants	Absolu	ıto	Domi	nant	Indicator	T									
Tree Stratum (Plot size	e: <u>30' diameter</u> )		% Cov		Spec		Status	Do	omina	nce Tes	t Works	sheet:					
Pseudotsuga men.	ziesii		<u>10</u>		yes		<u>FACU</u>				nant Spe			<u>o</u>			(A)
2								Th	hat Are	OBL, F	ACW, or	r FAC:		<u>u</u>			(八)
3								To	otal Nu	ımber of	Domina	int		4			(D)
4								Sp	pecies	Across	All Strata	a:		<u>4</u>			(B)
50% = <u>5,</u> 20% = <u>2</u>			<u>10</u>		= Tot	al Cove	r	Pe	ercent	of Domi	nant Spe	ecies		0			/ / /D \
Sapling/Shrub Stratum	<u>n</u> (Plot size: <u>20' o</u>	<u>diameter</u> )						Th	hat Are	OBL, F	ACW, or	r FAC:		<u>0</u>			(A/B)
1. Vaccinium ovatum	<u>1</u>		<u>25</u>		yes		<u>FACU</u>	Pr	revale	nce Inde	ex works	sheet:					
2										Tota	al % Cov	ver of:		Multip	oly by:		
3								OI	BL spe	ecies	_			x1 =	_		
4								FA	ACW s	pecies				x2 =			
5								FA	AC spe	ecies				x3 =			
50% = <u>12.5</u> , 20% = <u>5</u>			<u>25</u>		= Tot	al Cove	r	F.A	ACU s	pecies				x4 =			
Herb Stratum (Plot siz	e: 10' diameter)								PL spe					x5 =			
1. Polystichum munit			<u>10</u>		yes		FACU		•	Totals:	_		A)			(	'B)
Galium triflorum			<u>10</u>		yes		FACU	00	Olullill	TOTAIS.	Preva			/A =			.5)
3.			10		<u>yes</u>		1700		vdron	hytia Va							
' <u></u>										-	getation		hytic Ved	estation			
4									_	•	ance Tes	, ,	, ,	jetation			
5									-								
6									J 3.	- Prevale	ence Inde	ex is <u>&lt;</u> 3	.0¹				
7									3 4-					ovide suppo	orting		
8									_				·	te sheet)			
9									5 -	- Wetlan	d Non-Va	ascular	Plants <sup>1</sup>				
10									] Pr	oblemati	ic Hydrop	phytic ∖	egetatio	n¹ (Explain)	)		
11								11									
50% = <u>10</u> , 20% = <u>4</u>			<u>20</u>		= Tot	al Cove	r						tiand nyd problema	lrology mus atic.	τ		
Woody Vine Stratum (	Plot size:	_)								,							
1																	
2								_	ydrop	-		.,		_			-
50% =, 20% =					= Tot	al Cove	r		egetat resent			Ye	S		No	•	
% Bare Ground in Her								[	COCIII	•							
т		vegetation criteria	is not r	net ha	Calleo	there is	s less than 5	ا 0% م	domina	ance by I	FΔC plan	nt snaci	AS				
Remarks:	ne nyuropnyuc	vegetation criteria	1 1011 61 1	HEL DE	cause	uicie iš	o icoo illali D	U /0 U	JUITILIE	ance by I	AO PIAI	in speci	cs.				

Depth Matrix Redox Features    Color (moist)   %   Color (moist)   %   Type¹	Indicators for Problematic Hydric Soils³:  2 cm Muck (A10)  Red Parent Material (TF2)
0-3 7.5YR 2.5/2 100 3-8 10YR 3/4 100  ype: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Gravitic Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	silt loam sandy loam rock at 8"
3-8 10YR 3/4 100	sandy loam rock at 8"
//pe: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Gradric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	Grains.   2Location: PL=Pore Lining, M=Matrix, RC=Root Channe  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10)  Red Parent Material (TF2)  Pept MLRA 1) Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	Indicators for Problematic Hydric Soils³:  2 cm Muck (A10)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	Indicators for Problematic Hydric Soils³:  2 cm Muck (A10)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	Indicators for Problematic Hydric Soils³:  2 cm Muck (A10)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	Indicators for Problematic Hydric Soils³:  2 cm Muck (A10)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	Indicators for Problematic Hydric Soils³:  2 cm Muck (A10)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	Indicators for Problematic Hydric Soils³:  2 cm Muck (A10)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)  Histosol (A1)	Indicators for Problematic Hydric Soils³:  2 cm Muck (A10)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Sandy Gleyed Matrix (S4)  Redox Depressions (F8)	2 cm Muck (A10) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Below Dark Surface (F6)  Redox Dark Surface (F7)  Sandy Gleyed Matrix (S4)  Redox Depressions (F8)  Strictive Layer (if present):	Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
Black Histic (A3)	Pept MLRA 1)
Hydrogen Sulfide (A4)	Other (Explain in Remarks)  3Indicators of hydrophytic vegetation and wetland hydrology must be present,
Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Strictive Layer (if present):  Depleted Dark Surface (F7)  Redox Depressions (F8)  Hy	wetland hydrology must be present,
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8)  strictive Layer (if present):  Detroit (inches): Hy	wetland hydrology must be present,
Sandy Gleyed Matrix (S4) Redox Depressions (F8)  strictive Layer (if present):  De:  pth (inches): Hy	wetland hydrology must be present,
strictive Layer (if present):  De:  pth (inches):  Hy	
pe: bth (inches): Hy	
oth (inches):	
· /	
marks: This soil profile meets none of the hydric soil indicators because of the high matrix	Hydric Soils Present? Yes ☐ No
DROLOGY etland Hydrology Indicators:	
mary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1) Water-Stained Leaves (B9)	☐ Water-Stained Leaves (B9)
High Water Table (A2) (except MLRA 1, 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 (C9)
Drift Deposits (B3) ☐ Oxidized Rhizospheres along Livin	
Algal Mat or Crust (B4)  Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5) Recent Iron Reduction in Tilled Soi	
	_
Surface Soil Cracks (B6) Stunted or Stresses Plants (D1) (Li	
Surface Soil Cracks (B6)  Inundation Visible on Aerial Imagery (B7)  Stunted or Stresses Plants (D1) (Li	☐ Frost-Heave Hummocks (D7)
	☐ Frost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery (B7)	☐ Frost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery (B7)	Frost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery (B7)	☐ Frost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery (B7)	☐ Frost-Heave Hummocks (D7)  Wetland Hydrology Present? Yes ☐ N
Inundation Visible on Aerial Imagery (B7)	Wetland Hydrology Present? Yes □ N

Project Site:	NK United						City/Cour	nty:	Poul	sbo/Kits	<u>ap</u>		Samplin	g Date:	<u>10-</u>	24-23	
Applicant/Owner:	<u>Raydient</u>									S	tate: <u>V</u>	<u>NA</u>	Samplin	g Point:	TP	46	
Investigator(s):	J. Bartlett, M. M	<u>1iII</u>							Se	ection, T	ownship	p, Rang	je: <u>S 31</u>	T 27 N R 2	<b>EWM</b>		
Landform (hillslope, terr	race, etc.): <u>F</u>	<u>Hillslope</u>				Loca	I relief (cond	cave,	conve	x, none	): <u>co</u>	nvex		Slop	e (%):	<u>5</u>	
Subregion (LRR):	MLRA 2		Lat:		_			L	Long:					Datum:		_	
Soil Map Unit Name:	Poulsbo grave	elly sandy loam,	615% sl	opes							NV	VI class	sification:	None			
Are climatic / hydrologic	conditions on t	the site typical fo	r this time	e of ye	ear?	Y	es 🛛	I	No		If no, ex	xplain in	Remark	(s.)			
Are Vegetation ☐,	Soil □,	or Hydrology	□, sig	nifica	ntly di	sturbed	? Are '	"Norn	nal Cir	cumstar	nces" pr	resent?		Yes	$\boxtimes$	No	
Are Vegetation ☐,	Soil □,	or Hydrology	□, nat	turally	probl	ematic?	? (If ne	eedeo	d, expl	ain any	answer	s in Rei	marks.)				
SUMMARY OF FIND	DINGS – Atta	ch site map s	howing	sam	pling	point	locations	, traı	nsect	s, imp	ortant	featur	es, etc				
Hydrophytic Vegetation			Yes		No.	🛛							<u> </u>				
Hydric Soil Present?			Yes		No		Is the Samp							Yes		No	$\boxtimes$
Wetland Hydrology Pres	sent?		Yes		No		within a We	etlan	d?						_		_
							d Danid Dan			Dl-b-	I IZ:		Th14	. :- !			
Remarks: North Kitsa three seam		nited) is located hich are either c													was d	iviaea	into
g	,								-								
VEGETATION – Use	scientific na	mes of plants	Absolu	ıto	Domi	nont	Indicator										
Tree Stratum (Plot size	e: <u>30' diameter</u> )		% Cov		Spec		Status	D	omina	nce Te	st Work	ksheet:					
1								N	umber	of Dom	inant S	pecies		1			<b>(\\</b> )
2								TI	hat Are	e OBL, F	ACW,	or FAC:		<u>1</u>			(A)
3								To	otal Nu	umber of	f Domin	nant					(D)
4								S	pecies	Across	All Stra	ata:		<u>4</u>			(B)
50% =, 20% = _					= Tot	al Cove	er	P	ercent	of Dom	inant Sr	pecies		0.5			(4 (5)
Sapling/Shrub Stratum	<u>n</u> (Plot size: <u>20'</u>	<u>diameter</u> )								e OBL, F				<u>25</u>			(A/B)
1. Rubus spectabilis			<u>50</u>		yes		FAC	Pi	revale	nce Ind	ex wor	ksheet	:				
2. <u>Mahonia nervosa</u>			<u>15</u>		yes		FACU			Tot	al % Co	over of:		Multi	iply by:	<u>:</u>	
3. Vaccinium ovatum	1		<u></u>		no		FACU	0	BL spe	ecies				x1 =		='	
4. Sambucus racemo	osa		<u>5</u>		no		FACU	F	ACW s	species				x2 =			
5.			_					F	AC spe	ecies				x3 =			
50% = <u>37.5,</u> 20% = <u>15</u>	;		<u>75</u>		= Tot	al Cove	er		-	pecies				x4 =			
Herb Stratum (Plot size	=								PL spe	•				x5 =			
Polystichum munitu			25		VOC		<u>FACU</u>						(A)	λο			(D)
·	<del>um</del>		<u>25</u>		<u>yes</u>		<u> </u>	C	olumn	Totals:	Drav			D/A =			(D)
2. <u>Rubus ursinus</u>			<u>10</u>		<u>yes</u>		FACU FACU	<u> </u>						B/A =	-		
3. <u>Dryopteris expansa</u>	<u>a</u>		<u>5</u>		<u>no</u>		<u>FACW</u>			hytic Ve	_						
4									_	•		,	. ,	egetation			
5									_ 2. _	- Domina	ance re	est is >5	00%				
6									J 3.	- Prevale	ence Ind	dex is ≤	:3.0 <sup>1</sup>				
7									٦ 4					rovide supp	orting		
8								-	_	data in	Remar	ks or or	n a sepai	rate sheet)			
9									5	- Wetlan	d Non-	Vascula	ar Plants	1			
10									] Pr	oblemat	ic Hydr	ophytic	Vegetat	ion¹ (Explain	1)		
11								4.									
50% = <u>20</u> , 20% = <u>8</u>			<u>40</u>		= Tot	al Cove	er						etland hy r problen	/drology mu: natic	st		
Woody Vine Stratum (I	Plot size:	_)							o proo	orit, ariic	oo alou	arboa o	Problem	idio.			
1																	
2									ydrop	-							
50% =, 20% = _					= Tot	al Cove	er		egetat			Y	es		N	0	$\boxtimes$
% Bare Ground in Herl								1	resent	ır							
		vogototion!t	io io n-t	204 L	00::-	thar- '	o loop #5 *	500/	dom:	ones L.	EAO :-!	ont a:-:	oioc				
Remarks:	ne nyarophytic	vegetation criter	a is not n	iet be	cause	ınere i	s iess than 5	ou% (	uomina	ance by	FAC pla	ant spe	cies.				

Depth	Matrix				Redox Featu	ires						
nches)	Color (moist)	%	Color (	moist)	%	Type <sup>1</sup> Loc <sup>2</sup>	 Texture	e		Remarks	;	
0-16	10YR 3/2	100					sandy l					
				<u> </u>								
				_								
	<u> </u>			_				<u> </u>				
	<u></u>			_				<u> </u>				
								_				
				<u> </u>	<u> </u>							
				<u> </u>								
pe: C= C	Concentration, D=Deple	tion, RM=	Reduced M	atrix, CS=	Covered or Coa	ted Sand Grains.	<sup>2</sup> Location: PL	=Pore Lining,	M=Matrix, F	RC=Root	Channel	
dric Soil	Indicators: (Applicab	le to all L	.RRs, unle:	s otherw	ise noted.)		Ind	icators for Pro	oblematic F	lydric S	oils³:	
Histos	sol (A1)			Sand	y Redox (S5)			2 cm Muck	(A10)			
Histic	Epipedon (A2)			Stripp	ed Matrix (S6)			Red Paren	t Material (1	ΓF2)		
Black	Histic (A3)			Loam	y Mucky Minera	I (F1) (except MLRA	.1)	Very Shallo	ow Dark Su	rface (TF	F12)	
Hydro	gen Sulfide (A4)			Loam	y Gleyed Matrix	(F2)		Other (Exp	lain in Rem	arks)		
Deple	ted Below Dark Surface	∍ (A11)		Deple	eted Matrix (F3)							
Thick	Dark Surface (A12)			Redo	x Dark Surface (	(F6)						
Sandy	y Mucky Mineral (S1)			Deple	eted Dark Surfac	e (F7)		dicators of hydr				
Sandy	y Gleyed Matrix (S4)			Redo	x Depressions (F	F8)		wetland hydrol unless disturbe	0,		t,	
strictive	Layer (if present):						<u> </u>	arriodo diotarbe	or problem	mano.		
e:												
oth (inche	es):					Hydric So	ils Present?		Yes		No	
marks:	This soil profile meet:	s none of	the hydric s	soil indicate	ors because of t	he high matrix colors						
DROLOG	gy	s none of	the hydric s	oil indicati	ors because of the	he high matrix colors						
ROLOG	GY vdrology Indicators:					he high matrix colors		ndary Indicato	rs (2 or mor	re require	ed)	
PROLOG tland Hy mary Indi	GY /drology Indicators: icators (minimum of one		l; check all f	hat apply)			Seco	ndary Indicato	•		ed)	
ROLOG tland Hy nary Indi Surfa	GY /drology Indicators: icators (minimum of one ice Water (A1)			hat apply)	r-Stained Leaves	s (B9)		Water-Stained	d Leaves (B	9)	ed)	
PROLOG tland Hy mary Indi Surfa High <sup>1</sup>	GY vdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2)		l; check all f	hat apply)   Water (exce	r-Stained Leaves ept MLRA 1, 2, 4	s (B9)	Seco	Water-Stained (MLRA 1, 2, 4	d Leaves (B	9)	ed)	
PROLOG tland Hy mary Indi Surfa High '	drology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3)		l; check all f	hat apply)   Water (exce	r-Stained Leaves ept MLRA 1, 2, 4 Crust (B11)	s (B9) <b>1A</b> , and <b>4B</b> )	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt	d Leaves (B IA, and 4B) terns (B10)	9)	ed)	
ROLOG tland Hy mary Indi Surfa High Satur Water	drology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3) ir Marks (B1)		l; check all t	hat apply)   Water   (exce   Salt (	r-Stained Leaves ept MLRA 1, 2, 4 Crust (B11) tic Invertebrates	s (B9) <b>1A, and 4B)</b> (B13)	Seco	Water-Stained (MLRA 1, 2, 4) Drainage Patt Dry-Season V	d Leaves (B IA, and 4B) terns (B10) Vater Table	(C2)		
ROLOG tland Hy mary Indi Surfa High ' Satur Water Sedin	rdrology Indicators: icators (minimum of one one one Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2)		l; check all t	hat apply)   Water (exce   Salt (	r-Stained Leaves ept MLRA 1, 2, 4 Crust (B11) tic Invertebrates ogen Sulfide Odd	s (B9) <b>1A, and 4B)</b> (B13)  or (C1)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis	d Leaves (B IA, and 4B) terns (B10) Vater Table sible on Aeri	(C2)		
PROLOG tland Hy mary Indi Surfa High ' Satur Water Sedin Drift I	rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3)		I; check all I	hat apply)   Water (exce   Salt C   Aquar   Hydro	r-Stained Leaves ept MLRA 1, 2, 4 Crust (B11) tic Invertebrates ogen Sulfide Odo zed Rhizosphere	s (B9) <b>IA, and 4B)</b> (B13)  or (C1)  es along Living Roots	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F	d Leaves (B IA, and 4B) terns (B10) Vater Table sible on Aeri Position (D2	(C2)		
PROLOG tland Hy mary Indi Surfa High Satur Water Sedin Drift [	rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3) ir Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)		l; check all f	hat apply)  Water (exce Salt C Aquar Hydro	r-Stained Leaves  pt MLRA 1, 2, 4  Crust (B11)  tic Invertebrates  ogen Sulfide Odo  zed Rhizosphere  ence of Reduced	s (B9)  IA, and 4B)  (B13)  or (C1)  es along Living Roots	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit	d Leaves (B IA, and 4B) terns (B10) Vater Table sible on Aeri Position (D2 ard (D3)	(C2)		
PROLOG Stland Hy mary Indi Surfa High Satur Water Sedin Drift [ Algal Iron [	rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3) ir Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)		l; check all f	hat apply)   Water (exce   Salt C   Aquar   Hydro	r-Stained Leaves  pt MLRA 1, 2, 4  Crust (B11)  tic Invertebrates  ogen Sulfide Odo  zed Rhizosphere  ence of Reduced  nt Iron Reduction	s (B9) IA, and 4B)  (B13) or (C1) es along Living Roots I Iron (C4) n in Tilled Soils (C6)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	d Leaves (B AA, and 4B) terns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5)	(C2) ial Image	ery (C9)	
PROLOG tland Hy mary Indi Surfa High Satur Water Sedin Drift I Algal Iron I Surfa	rdrology Indicators: icators (minimum of one	e required	l; check all t	hat apply)  Water (exce Salt C Aquai Hydro Oxidi Prese Recei	r-Stained Leaves  pt MLRA 1, 2, 4  Crust (B11)  tic Invertebrates  ogen Sulfide Odo  zed Rhizosphere  ence of Reduced  nt Iron Reduction  ed or Stresses F	s (B9)  IA, and 4B)  (B13)  or (C1)  es along Living Roots  I Iron (C4)  n in Tilled Soils (C6)  Plants (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	d Leaves (B IAA, and 4B) terns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5) ounds (D6)	(C2) ial Image	ery (C9)	
PROLOG Itland Hy mary Indi Surfa High ' Satur Water Sedin Drift [ Algal Iron [ Surfa Inund	rdrology Indicators: icators (minimum of one one Water (A1) Water Table (A2) ration (A3) or Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6) dation Visible on Aerial	e required	l; check all t	hat apply)  Water (exce Salt C Aquai Hydro Oxidi Prese Recei	r-Stained Leaves  pt MLRA 1, 2, 4  Crust (B11)  tic Invertebrates  ogen Sulfide Odo  zed Rhizosphere  ence of Reduced  nt Iron Reduction	s (B9)  IA, and 4B)  (B13)  or (C1)  es along Living Roots  I Iron (C4)  n in Tilled Soils (C6)  Plants (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	d Leaves (B IAA, and 4B) terns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5) ounds (D6)	(C2) ial Image	ery (C9)	
PROLOG Istland Hy mary Indi Surfa High ' Satur Water Sedin Drift I Algal Iron I Surfa Inund Spars	cators (minimum of one	e required	l; check all t	hat apply)  Water (exce Salt C Aquai Hydro Oxidi Prese Recei	r-Stained Leaves  pt MLRA 1, 2, 4  Crust (B11)  tic Invertebrates  ogen Sulfide Odo  zed Rhizosphere  ence of Reduced  nt Iron Reduction  ed or Stresses F	s (B9)  IA, and 4B)  (B13)  or (C1)  es along Living Roots  I Iron (C4)  n in Tilled Soils (C6)  Plants (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	d Leaves (B IAA, and 4B) terns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5) ounds (D6)	(C2) ial Image	ery (C9)	
PROLOG Stland Hy mary Indi Surfa High ' Satur. Water Sedin Drift I Algal Iron I Surfa Inund Spars	ry rdrology Indicators: icators (minimum of one one of the water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Indeposits (B5) Indeposits (B6) Indeposits (B	e required Imagery (I e Surface	l; check all f	hat apply)  Water (exce   Salt C   Aquar   Hydro   Oxidi;   Prese   Recer   Stunt	r-Stained Leaves  pt MLRA 1, 2, 4  Crust (B11)  tic Invertebrates  ogen Sulfide Odd  zed Rhizosphere  ence of Reduced  nt Iron Reduction  ed or Stresses F  (Explain in Rem	s (B9)  IA, and 4B)  (B13)  or (C1)  es along Living Roots  I Iron (C4)  n in Tilled Soils (C6)  Plants (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	d Leaves (B IAA, and 4B) terns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5) ounds (D6)	(C2) ial Image	ery (C9)	
PROLOC tland Hy mary Indi Surfa High Satur Water Sedin Drift I Algal Iron I Surfa Inund Spars Id Obser	rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3) ir Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6) dation Visible on Aerial I sely Vegetated Concave rvations: ter Present? Yes	e required	l; check all t	hat apply)   Water (exce   Salt C   Aquai   Hydro   Oxidi;   Prese   Recer   Stunt   Other	r-Stained Leaves pt MLRA 1, 2, 4 Crust (B11) tic Invertebrates ogen Sulfide Odo zed Rhizosphere ence of Reduced nt Iron Reduction ed or Stresses F (Explain in Rem	s (B9)  IA, and 4B)  (B13)  or (C1)  es along Living Roots  I Iron (C4)  n in Tilled Soils (C6)  Plants (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	d Leaves (B IAA, and 4B) terns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5) ounds (D6)	(C2) ial Image	ery (C9)	
PROLOC tland Hy mary Indi Surfa High V Satur Water Sedin Drift I Algal Iron I Surfa Inund Spars Id Obser face Wat	rdrology Indicators: icators (minimum of one ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6) dation Visible on Aerial I sely Vegetated Concavervations: ter Present? Present?  Present?  Ves	e required Imagery (E	I; check all I	hat apply)  Water (exce Salt C Aquar Oxidia Prese Recer Stunt	r-Stained Leaves ept MLRA 1, 2, 4 Crust (B11) tic Invertebrates ogen Sulfide Odo zed Rhizosphere ence of Reduced int Iron Reduction ed or Stresses F (Explain in Rem Depth (inches):	s (B9)  IA, and 4B)  (B13)  or (C1)  es along Living Roots  I Iron (C4)  n in Tilled Soils (C6)  Plants (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave H	d Leaves (B IA, and 4B) erns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5) ounds (D6) Hummocks	(C2) (C2) (ial Image	ery (C9)	
PROLOG  Itland Hy mary Indi Surfa- High Satur. Water Sedin Drift [ Algal Iron [ Surfa- Inund Spars- Id Obser rface Water Table	ration (A3) Mat or Crust (B4) Deposits (B5) Mat or Crust (B6) Mation Visible on Aerial I sely Vegetated Concave rvations: Present? Vesely Vesel Present?	e required	I; check all I	hat apply)  Water (exce Salt C Aquar Hydro Recer Recer Stunt Other	r-Stained Leaves pt MLRA 1, 2, 4 Crust (B11) tic Invertebrates ogen Sulfide Odo zed Rhizosphere ence of Reduced nt Iron Reduction ed or Stresses F (Explain in Rem	s (B9)  IA, and 4B)  (B13)  or (C1)  es along Living Roots  I Iron (C4)  n in Tilled Soils (C6)  Plants (D1) (LRR A)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M	d Leaves (B IA, and 4B) erns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5) ounds (D6) Hummocks	(C2) ial Image	ery (C9)	o
PROLOG  Stland Hy mary Indi Surfa High  Satur Water Sedin Drift [ Algal Iron [ Surfa Inund Spars  Id Obser rface Wat ster Table turation P	ration (A3) Mat or Crust (B4) Deposits (B5) Mat or Crust (B6) Mation Visible on Aerial of Sely Vegetated Concavervations: Ter Present?  Ves	Imagery (Iee Surface	l; check all f	hat apply)   Water (exce   Salt C   Aqual   Hydro   Oxidi:   Prese   Recer   Stunt   Other	r-Stained Leaves pt MLRA 1, 2, 4 Crust (B11) tic Invertebrates ogen Sulfide Odo zed Rhizosphere ence of Reduced int Iron Reduction ed or Stresses F (Explain in Ren Depth (inches): Depth (inches):	s (B9)  IA, and 4B)  (B13)  or (C1)  es along Living Roots  I Iron (C4)  n in Tilled Soils (C6)  Plants (D1) (LRR A)  narks)	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave H	d Leaves (B IA, and 4B) erns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5) ounds (D6) Hummocks	(C2) (C2) (ial Image	ery (C9)	0
DROLOG etland Hy mary Indi Surfa High \ Satur. Water Sedin Drift [ Algal Iron [ Surfa Inund Spars eld Obser rface Wat ater Table turation P cludes ca	rdrology Indicators: icators (minimum of one occupations) water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6) dation Visible on Aerial I sely Vegetated Concave rvations: ter Present? Present? Yes Present? Yes Present? Yes	Imagery (fee Surface	I; check all f	hat apply)  Water (exce Salt C Aquar Hydro Recel Stunt Other  C C C C C C C C C C C C C C C C C C	r-Stained Leaves  pt MLRA 1, 2, 4  Crust (B11)  tic Invertebrates  pgen Sulfide Odd  zed Rhizosphere  ence of Reduced  nt Iron Reduction  ed or Stresses F  (Explain in Rem  Depth (inches):  Depth (inches):	s (B9)  AA, and 4B)  (B13)  or (C1)  es along Living Roots I Iron (C4)  n in Tilled Soils (C6)  Plants (D1) (LRR A)  narks)   nspections), if availab	Seco	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant M Frost-Heave H	d Leaves (B IA, and 4B) erns (B10) Vater Table sible on Aeri Position (D2 ard (D3) Test (D5) ounds (D6) Hummocks	(C2) (C2) (ial Image	ery (C9)	<b>D</b>

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-24-23	
Applicant/Owner:	Raydient				State: WA	Sampling Point:	<u>TP 47</u>	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Rai	nge: <u>S 31 T 27 N R 2 E</u>	<u>WM</u>	
Landform (hillslope, te	rrace, etc.): <u>Hillslope</u>		Local	l relief (conca	ive, convex, none): <u>convex</u>	Slope	: (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	-15% slopes			NWI cla	ssification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛚	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	Soil □, or Hydrology [	☐, significa	ntly disturbed	? Are "N	Normal Circumstances" present	? Yes	⊠ No	
Are Vegetation ☐,	Soil □, or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in R	emarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ıres, etc.		
Hydrophytic Vegetation	n Present?	Yes	No 🖾		Lat A			
Hydric Soil Present?		Yes		Is the Sampl within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pro	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlem	eyer Road and	d Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided	into
	ments, most of which are either cle	ar cut or fore	sted. Test Plo	ot 47 is locate	d on the mapped stream next	to the service road inters	section in th	he
northern s	segment.							
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: 30' diameter)	Absolute	Dominant Species 2	Indicator	Dominance Test Workshee	t:		
1. Alnus rubra		<u>% Cover</u> <u>10</u>	Species? yes	Status FAC	Number of Deminant Species			
2			<u></u>		Number of Dominant Species That Are OBL, FACW, or FA			(A)
3.					Total Number of Dominant			
4.					Species Across All Strata:	<u>8</u>		(B)
50% = <u>5</u> , 20% = <u>2</u>		10	= Total Cove		Percent of Dominant Species			
	m (Plot size: 20' diameter)	_			That Are OBL, FACW, or FA			(A/B)
Sambucus racem		<u>25</u>	<u>yes</u>	FACU	Prevalence Index workshe	 et:		
Rubus spectabilis		<u>10</u>	<u>yes</u>	FACU	Total % Cover of		lv bv:	
3. Rubus parviflorus	_	<u>10</u>	<u>yes</u>	FACU	OBL species	x1 =	. <u>,, ~,.</u>	
4. Rubus armeniacu		<u>5</u>	no no	FACU	FACW species	x2 =		
5.	_	_	_		FAC species	- x3 =		
50% = <u>25</u> , 20% = <u>10</u>		<u>50</u>	= Total Cove		FACU species	_ x4 =		
Herb Stratum (Plot si	ze: 10' diameter)				UPL species	x5 =		
1. Rubus ursinus	201 <u>10 diameter</u> )	<u>15</u>	VAS	<u>FACU</u>	•	_ (A)		(B)
Carex deweyana			<u>yes</u>	FAC	Column Totals:	(^) ce Index = B/A =		(D)
		<u>10</u>	<u>yes</u>					
3. Polystichum mun		<u>10</u>	<u>yes</u>	<u>FACU</u> <u>FAC</u>	Hydrophytic Vegetation Inc			
4. Geum macrophyl		<u>10</u>	<u>yes</u>		1 – Rapid Test for Hyd			
5. Athyrium cyclosol	<u>rum</u>	<u>5</u>	<u>no</u>	FAC	2 - Dominance Test is			
6. <u>Lactuca serriola</u>		<u>5</u>	<u>no</u>	<u>FACU</u>	☐ 3 - Prevalence Index is	<u>&lt;</u> 3.0¹		
7						otations¹ (Provide suppor on a separate sheet)	rting	
8					_			
9					5 - Wetland Non-Vascu	ilar Plants		
10					☐ Problematic Hydrophyt	ic Vegetation¹ (Explain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must		
50% = <u>27.5</u> , 20% = <u>1</u>	<del>_</del>	<u>55</u>	= Total Cove	r	be present, unless disturbed			
Woody Vine Stratum	(Plot size:)							
1					H. dan best			
2					Hydrophytic Vegetation	Yes 🗆	No	
50% =, 20% =	·		= Total Cove	r	Present?	_		_
% Bare Ground in He	erb Stratum <u>45</u>							
Remarks:	The hydrophytic vegetation criteria	is not met be	ecause there is	s less than 50	0% dominance by FAC plant sp	ecies.		
1								

Depth	Matrix	(				Redox Feat	tures							
nches)	Color (moist)	%		Color (mo	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	e	ı	Remarks	1	
<u>8-0</u>	7.5YR 3/2	<u>100</u>							sa silt le	<u></u>				
<u>8-16</u>	2.5YR 6/2	<u>63</u>		7.5YR 5	<u>/6</u>	<u>7</u>	<u>C</u>	<u>M</u>	sa silt l	oam				
	<u>10YR 5/4</u>	<u>30</u>												
			_											
			-											
		-	-		•									
		-	_			<del></del>								
me: C= C	oncentration, D=De	epletion R	– ≀M=Redu	ced Mat	rix CS=Cc	overed or Co	ated Sand	I Grains 2	l ocation: PI	– ₋=Pore Lining, I	M=Matrix F	RC=Root	Channel	
	Indicators: (Appli	-								icators for Pro				
	ol (A1)		,			Redox (S5)				2 cm Muck		.,		
	Epipedon (A2)				-	d Matrix (S6)				Red Parent		ΓF2)		
Black	Histic (A3)				Loamy N	Mucky Miner	al (F1) <b>(ex</b>	cept MLRA 1)		Very Shallo	w Dark Su	rface (TF	12)	
Hydro	gen Sulfide (A4)				Loamy (	Gleyed Matri	ix (F2)			Other (Exp	lain in Rem	arks)		
Deplet	ted Below Dark Sur	face (A11	)		Depleted	d Matrix (F3)	)							
Thick I	Dark Surface (A12)	)			Redox D	Dark Surface	e (F6)							
Sandy	Mucky Mineral (S	1)			Depleted	d Dark Surfa	ace (F7)			dicators of hydr				
Sandy	Gleyed Matrix (S4	•)			Redox D	Depressions	(F8)			wetland hydrold unless disturbe			Ι,	
strictive	Layer (if present):													
e:														
oth (inche	es):							Hydric Soils	Present?		Yes		No	
emarks:	This soil profile m	neets none	e of the h	ydric soil	l indicators	s because of	the high m	natrix colors.						
DROLOG	GY .		of the h	ydric soil	I indicators	s because of	the high m	natrix colors.						
OROLOG etland Hy	GY drology Indicators	s:				s because of	the high n	natrix colors.	Sano		(2 or mon		-d\	
DROLOG etland Hy mary Indic	SY drology Indicators cators (minimum of	s:		ck all tha	at apply)			natrix colors.		ndary Indicator			ed)	
PROLOG etland Hy mary India Surfac	GY drology Indicators cators (minimum of ce Water (A1)	s:			at apply) Water-S	Stained Leav	es (B9)		Seco	Water-Stained	Leaves (B	9)	ed)	
ROLOG tland Hy mary Indio Surfac High N	drology Indicators cators (minimum of ce Water (A1) Water Table (A2)	s:		ck all tha	at apply) Water-S (except	Stained Leave	es (B9)			Water-Stained (MLRA 1, 2, 4	Leaves (B	9)	ed)	
ROLOG tland Hy nary Indio Surfac High V	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3)	s:		ck all tha	at apply) Water-S ( <b>except</b> Salt Cru	Stained Leave : <b>MLRA 1, 2,</b> ıst (B11)	es (B9) <b>4A</b> , and 4			Water-Stained (MLRA 1, 2, 4 Drainage Patte	Leaves (B A, and 4B) erns (B10)	9)	ed)	
ROLOG tland Hy nary India Surfac High V Satura Water	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1)	s:		ck all tha	at apply)  Water-S  (except  Salt Cru  Aquatic	Stained Leave : <b>MLRA 1, 2,</b> ust (B11) Invertebrate	es (B9) <b>4A, and 4</b> es (B13)			Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W	Leaves (B A, and 4B) erns (B10) /ater Table	(C2)		
ROLOG tland Hy mary India Surfac High V Satura Water Sedim	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2)	s:		ck all tha	at apply)  Water-S (except Salt Cru Aquatic Hydroge	Stained Leave : MLRA 1, 2, ust (B11) Invertebrate en Sulfide Oc	es (B9) <b>4A, and 4</b> es (B13) dor (C1)	<b>1</b> B)		Water-Stained (MLRA 1, 2, 4 Drainage Pattr Dry-Season W Saturation Vis	A, and 4B) erns (B10) /ater Table ible on Aeri	(C2)		
PROLOG tland Hy mary Indio Surfac High V Satura Water Sedim Drift E	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3)	s:		ck all tha	at apply)  Water-S (except Salt Cru Aquatic Hydroge Oxidized	Stained Leave MLRA 1, 2, ast (B11) Invertebrate en Sulfide Od d Rhizosphe	es (B9)  4A, and 4 es (B13) dor (C1) res along l	<b>IB)</b> Living Roots (C		Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P	Leaves (B A, and 4B) erns (B10) /ater Table ible on Aeri Position (D2	(C2)		
PROLOG etland Hy mary Indio Surfac High \ Satura Water Sedim Drift E	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4)	s:		Ck all tha	at apply)  Water-S (except Salt Cru Aquatic Hydroge Oxidized Presence	Stained Leave • MLRA 1, 2, Ist (B11) Invertebrate en Sulfide Od d Rhizosphe ce of Reduce	es (B9)  4A, and 4 es (B13) dor (C1) eres along I ed Iron (C4	JB) Living Roots (C		Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita	A, and 4B) erns (B10) /ater Table ible on Aeri Position (D2 ard (D3)	(C2)		
PROLOG etland Hy mary Indio Surfac High \ Satura Water Sedim Drift D Algal Iron D	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4)	s: f one requi		ck all tha	at apply)  Water-S (except Salt Cru Aquatic Hydroge Oxidized Presenc	Stained Leave MLRA 1, 2, ist (B11) Invertebrate en Sulfide Od d Rhizosphe ce of Reduce Iron Reduction	es (B9)  4A, and 4 es (B13) dor (C1) eres along led Iron (C4 on in Tillec	Living Roots (C		Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T	A, and 4B) erns (B10) /ater Table ible on Aeri Position (D2 ard (D3)	(C2) ial Image	ery (C9)	
PROLOG Intland Hy mary India Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6)	s: f one requi	ired; ched	ck all tha	water-S (except Salt Cru Aquatic Hydroge Oxidized Presence Recent I Stunted	Stained Leave MLRA 1, 2, ist (B11) Invertebrate en Sulfide Od d Rhizosphe ce of Reduce Iron Reduction Stresses	es (B9)  4A, and 4 es (B13) dor (C1) res along led Iron (C4 on in Tillec Plants (D1	Living Roots (C		Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) /ater Table ible on Aeri Position (D2 ard (D3) Fest (D5) bunds (D6)	(C2) ial Image	ery (C9)	
PROLOG Itland Hy mary India Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Ae	s: f one requi	ired; chec	ck all tha	water-S (except Salt Cru Aquatic Hydroge Oxidized Presence Recent I Stunted	Stained Leave MLRA 1, 2, ist (B11) Invertebrate en Sulfide Od d Rhizosphe ce of Reduce Iron Reduction	es (B9)  4A, and 4 es (B13) dor (C1) res along led Iron (C4 on in Tillec Plants (D1	Living Roots (C		Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T	Leaves (B A, and 4B) erns (B10) /ater Table ible on Aeri Position (D2 ard (D3) Fest (D5) bunds (D6)	(C2) ial Image	ery (C9)	
PROLOG etland Hy mary India Surfar High N Satura Water Sedim Drift E Algal Iron D Surfar Inund Spars	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) Deposits (B3) Mat or Crust (B4) Deposits (B5) Dec Soil Cracks (B6) ation Visible on Aeiely Vegetated Con	s: f one requi	ired; chec	ck all tha	water-S (except Salt Cru Aquatic Hydroge Oxidized Presence Recent I Stunted	Stained Leave MLRA 1, 2, ist (B11) Invertebrate en Sulfide Od d Rhizosphe ce of Reduce Iron Reduction Stresses	es (B9)  4A, and 4 es (B13) dor (C1) res along led Iron (C4 on in Tillec Plants (D1	Living Roots (C		Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) /ater Table ible on Aeri Position (D2 ard (D3) Fest (D5) bunds (D6)	(C2) ial Image	ery (C9)	
PROLOG  Strand Hy mary Indio  Surfac  High \ Satura  Water  Sedim  Drift E  Algal  Iron E  Surfac  Inund  Spars	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Ae	s: f one requi	ry (B7) ace (B8)	ck all tha	at apply)  Water-S (except Salt Cru Aquatic Hydroge Oxidized Presenc Recent I Stunted Other (E	Stained Leave • MLRA 1, 2, Invertebrate en Sulfide Od d Rhizosphe te of Reduce Iron Reduction or Stresses Explain in Re	es (B9)  4A, and 4 es (B13) dor (C1) res along led Iron (C4 on in Tillec Plants (D1	Living Roots (C		Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) /ater Table ible on Aeri Position (D2 ard (D3) Fest (D5) bunds (D6)	(C2) ial Image	ery (C9)	
PROLOG  Stland Hy mary India  Surfac  High \ Satura  Vater  Sedim  Drift E  Algal  Iron D  Surfac  Inund  Spars	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Ae sely Vegetated Con vations:	s: f one requi  rial Image cave Surfa	ry (B7) ace (B8)	ck all tha	at apply)  Water-S (except Salt Cru Aquatic Hydroge Oxidized Presenc Recent I Stunted Other (E	Stained Leave  MLRA 1, 2, st (B11) Invertebrate en Sulfide Oc d Rhizosphe ce of Reduce Iron Reduction or Stresses Explain in Re	es (B9)  4A, and 4 es (B13) dor (C1) eres along led Iron (C4 on in Tillec Plants (D1 emarks)	Living Roots (C		Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) /ater Table ible on Aeri Position (D2 ard (D3) Fest (D5) bunds (D6)	(C2) ial Image	ery (C9)	
PROLOG  Stland Hy mary India  Surfac  High \ Satura  Vater  Sedim  Drift D  Surfac  Iron D  Surfac  Inund  Spars  Eld Obser  rface Wat  ster Table  turation P	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Ae sely Vegetated Con vations: ter Present? Present?	s: f one requi  rial Image cave Surfa  Yes [ Yes [	ry (B7) ace (B8)	ck all tha	at apply)  Water-S (except Salt Cru Aquatic Hydroge Oxidized Presenc Recent I Stunted Other (E	Stained Leave • MLRA 1, 2, Invertebrate en Sulfide Od d Rhizosphe te of Reduce Iron Reduction or Stresses Explain in Re	es (B9)  4A, and 4 es (B13) dor (C1) eres along led Iron (C4 on in Tilled Plants (D1 emarks)	Living Roots (Co.) d Soils (C6) d) (LRR A)	3)	Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	Leaves (B A, and 4B) erns (B10) /ater Table fible on Aeri Position (D2 ard (D3) est (D5) bunds (D6) dummocks	(C2) ial Image	ery (C9)	Φ
DROLOG etland Hy mary India Surfac High V Satura Water Sedim Drift D Surfac Inund Spars eld Obser rface Wat ater Table turation P cludes cap	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) Deposits (B3) Mat or Crust (B4) Deposits (B5) Dec Soil Cracks (B6) ation Visible on Aerely Vegetated Convations: ter Present? Present?	s: f one requi  rial Image cave Surfa  Yes [ Yes [ Yes [	ry (B7) ace (B8) No	ck all tha	at apply)  Water-S (except Salt Cru Aquatic Hydroge Oxidized Presenc Recent I Stunted Other (E	Stained Leave  MLRA 1, 2,  ist (B11)  Invertebrate en Sulfide Od d Rhizosphe be of Reduce Iron Reducti or Stresses Explain in Re  oth (inches): oth (inches):	es (B9)  4A, and 4 es (B13) dor (C1) eres along led Iron (C4 on in Tillec Plants (D1 emarks)	Living Roots (C.) d Soils (C6) l) (LRR A)	G3) G G G G G G G G G G G G G G G G G G	Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (B A, and 4B) erns (B10) /ater Table fible on Aeri Position (D2 ard (D3) est (D5) bunds (D6) dummocks	(C2) (C2) (ial Image	ery (C9)	0
imary India    Surface   High     Satura   Water   Sedim   Drift [   Algal   Iron [   Surface   Inund   Spars   eld Obser   urface Water Table   aturation Paciludes cap	drology Indicators cators (minimum of ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Ae sely Vegetated Con vations: ter Present? Present? pillary fringe)	s: f one requi  rial Image cave Surfa  Yes [ Yes [ Yes [	ry (B7) ace (B8) No	ck all tha	at apply)  Water-S (except Salt Cru Aquatic Hydroge Oxidized Presenc Recent I Stunted Other (E	Stained Leave  MLRA 1, 2,  ist (B11)  Invertebrate en Sulfide Od d Rhizosphe be of Reduce Iron Reducti or Stresses Explain in Re  oth (inches): oth (inches):	es (B9)  4A, and 4 es (B13) dor (C1) eres along led Iron (C4 on in Tillec Plants (D1 emarks)	Living Roots (C.) d Soils (C6) l) (LRR A)	G3) G G G G G G G G G G G G G G G G G G	Water-Stained (MLRA 1, 2, 4 Drainage Patte Dry-Season W Saturation Vis Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo Frost-Heave H	Leaves (B A, and 4B) erns (B10) /ater Table fible on Aeri Position (D2 ard (D3) est (D5) bunds (D6) dummocks	(C2) (C2) (ial Image	ery (C9)	0

Project Site:	NK United						City/Coun	ty: <u>Pou</u>	Isbo/Kitsa	<u>ap</u>	Sa	mpling I	Date:	10-2	<u> 24-23</u>	2
Applicant/Owner:	Raydient								St	ate: <u>WA</u>	Sa	mpling I	Point:	TP ·	<u>48</u>	
Investigator(s):	J. Bartlett, M. N	<u>/lill</u>						S	ection, To	ownship, Ra	ange:	S 31 T	27 N R 2	<u>EWM</u>		
Landform (hillslope, te	rrace, etc.):	<u>Hillslope</u>				Loca	al relief (conca	ave, conve	ex, none)	: convex	<u> </u>		Slop	e (%):	<u>5</u>	
Subregion (LRR):	MLRA 2		Lat:		_			Long:					Datum:		-	
Soil Map Unit Name:	Poulsbo grave	elly sandy loam,	615% s	<u>lopes</u>						NWI cl	lassific	ation:	<u>None</u>			
Are climatic / hydrolog	ic conditions on	the site typical for	or this time	e of y	ear?	Y	′es ⊠	No	☐ (It	f no, explaiı	n in Re	emarks.)	)			
Are Vegetation ☐,	Soil □,	or Hydrology	□, sig		-			Normal Ci	rcumstan	ces" preser	nt?		Yes	$\boxtimes$	No	
Are Vegetation ☐,	Soil □,	or Hydrology	□, na	turally	y probl	ematic	? (If ne	eded, exp	olain any a	answers in	Rema	rks.)				
SUMMARY OF FIN		ich site map s			•		locations,	transec	ts, impo	ortant fea	tures	, etc.				
Hydrophytic Vegetation	n Present?		Yes		No		Is the Samp	led Area						_		_
Hydric Soil Present?	10		Yes		No		within a We						Yes		No	$\boxtimes$
Wetland Hydrology Pre	esent?		Yes		No	$\boxtimes$										
Remarks: North Kits		Jnited) is located which are either or												was di	vided	into
triree segi	nents, most of v	vilicii are elliler (	ciear cut c	or iore	siea.	i est Pi	101 46 IS 10Cate	ea in the n	iorinwesi	em portion	or the	central	segment.			
/EGETATION - Use	e scientific na	ames of plant	<b>S</b> Absolu	ıt.o	Domi	nant	Indicator	1								
Tree Stratum (Plot size	ze: <u>30' diameter</u>	)	% Cov		Spec		Indicator <u>Status</u>	Domin	ance Tes	t Workshe	et:					
1. Pseudotsuga mei	nziesii		<u>25</u>		<u>yes</u>		<u>FACU</u>			nant Specie			<u>0</u>			(A)
2								That Ar	re OBL, F	ACW, or FA	AC:		<u> </u>			(/ ()
3										Dominant			<u>4</u>			(B)
4			-	•				Species	s Across A	All Strata:			<u> </u>			(5)
50% = <u>12.5</u> , 20% = <u>5</u>			<u>25</u>		= Tot	al Cov	er			nant Specie			<u>0</u>			(A/B)
Sapling/Shrub Stratui	<u>m</u> (Plot size: <u>20'</u>	<u>diameter</u> )						That Ar	re OBL, F.	ACW, or FA	AC:					( /
1. <u>Vaccinium ovatur</u>	<u>n</u>		<u>15</u>		<u>yes</u>		<u>FACU</u>	Prevale	ence Inde	ex workshe	eet:					
2									<u>Tota</u>	al % Cover	of:		<u>Multi</u>	ply by:		
3			-					OBL sp			_		x1 =	_		
4									species		_		x2 =	_		
5								FAC sp	ecies		_		x3 =	_		
50% = <u>25</u> , 20% = <u>10</u>			<u>15</u>		= Tot	al Cov	er	FACU	•		_		x4 =	_		
Herb Stratum (Plot size	ze: <u>10' diameter</u>	)						UPL sp	ecies		_		x5 =			
1. Rubus ursinus			<u>10</u>		yes		<u>FACU</u>	Column	n Totals:		(A	)		_		(B)
2. Polystichum muni	<u>itum</u>		<u>10</u>		<u>yes</u>		<u>FACU</u>			Prevaler	nce Ind	dex = B/	A =			
3								Hydrop	ohytic Ve	getation Ir	ndicat	ors:				
4								□ 1	- Rapid	Test for Hy	drophy	tic Vege	etation			
5								□ 2	- Domina	ince Test is	s >50%	o o				
6								□ 3	- Prevale	nce Index i	is <u>&lt;</u> 3.0	)1				
7								_ 4	- Morpho	logical Ada	aptatio	ns¹ (Pro	vide suppo	orting		
8									data in	Remarks o	r on a	separat	e sheet)			
9								□ 5	- Wetland	d Non-Vaso	cular F	lants¹				
10								□ Р	roblemati	ic Hydrophy	ytic Ve	getation	¹ (Explain	)		
11																
50% = <u>10</u> , 20% = <u>4</u>			<u>20</u>		= Tot	al Cov	er			dric soil and ss disturbed				st		
Woody Vine Stratum	(Plot size:	_)						be pres	orn, unio	oo alotalbe	u oi pi	obicilia				
1																
2								Hydrop	-				_			_
50% =, 20% =					= Tot	al Cov	er	Vegeta Presen			Yes			No	0	$\boxtimes$
0070 =, 2070 =								i resem								
% Bare Ground in He	rb Stratum 80															

SOIL Sampling Point: TP 48 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/1 sa silt loam 0-2 100 2-16 2.5YR 6/2 <u>40</u> 10YR 4/6 5 С M sa silt loam 2.5YR 5/4 <u>55</u> <sup>2</sup>Location: PL=Pore Lining, M=Matrix, RC=Root Channel <sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United			City/Count	y: <u>Poulsbo/Kitsap</u>	Sampling Date:	10-24-23	<u>3</u>
Applicant/Owner:	Raydient				State: WA	Sampling Point:	TP 49	
Investigator(s):	J. Bartlett, M. Mill				Section, Township, Ra	nge: <u>S 31 T 27 N R 2 E</u>	<u>-WM</u>	
Landform (hillslope, te	errace, etc.): <u>Hillslope</u>		Loca	l relief (conca	ive, convex, none): <u>convex</u>	Slope	e (%): <u>5</u>	
Subregion (LRR):	MLRA 2	Lat:	_		Long:	Datum: _		
Soil Map Unit Name:	Poulsbo gravelly sandy loam, 6-	15% slopes			NWI cla	assification: <u>None</u>		
Are climatic / hydrolog	ic conditions on the site typical for	this time of y	ear? Ye	es 🛛	No 🔲 (If no, explain	in Remarks.)		
Are Vegetation ☐,	, Soil □, or Hydrology [	☐, significa	intly disturbed	? Are "N	Normal Circumstances" presen	t? Yes	☑ No	
Are Vegetation ☐,	, Soil $\square$ , or Hydrology [	☐, naturall	y problematic?	(If nee	eded, explain any answers in F	lemarks.)		
SUMMARY OF FIN	IDINGS – Attach site map sh	owing sam	pling point	locations,	transects, important feat	ures, etc.		
Hydrophytic Vegetation	n Present?	Yes	No 🖾		Lad Assa			
Hydric Soil Present?		Yes		Is the Sampl within a Wet		Yes	☐ No	$\boxtimes$
Wetland Hydrology Pro	esent?	Yes 🗌	No 🛛					
Remarks: North Kits	sap United (NK United) is located a	long Stottlem	eyer Road and	d Bond Road	between Poulsbo and Kingsto	n. The site is large so w	as divided	into
•	ments, most of which are either cle	ear cut or fore	sted. Test Plo	ot 49 is loccat	ed in the deciduous forest nea	r the western boundary	of the cent	ral
segment.								
VEGETATION - Us	e scientific names of plants							
Tree Stratum (Plot size	ze: <u>30' diameter</u> )	Absolute	Dominant Species 2	Indicator	Dominance Test Workshee	et:		
1. Alnus rubra		<u>% Cover</u> 20	Species? yes	Status FAC	Number of Dominant Specie	ie.		
Pseudotsuga mei	nziesii	<u>5</u>	ves	FACU	That Are OBL, FACW, or FA			(A)
3.	<u></u>	-	<del></del>		Total Number of Dominant			
4.					Species Across All Strata:	<u>6</u>		(B)
50% = <u>12.5</u> , 20% = <u>5</u>	<b>,</b>	25	= Total Cove		Percent of Dominant Specie	e		
	<u>m</u> (Plot size: <u>20' diameter</u> )	_			That Are OBL, FACW, or FA			(A/B)
Sambucus racem		<u>25</u>	<u>yes</u>	FACU	Prevalence Index workshe	et:		
Ilex aquifolium	- <del></del>	<u>15</u>	yes	FACU	Total % Cover of		ılv bv:	
3		<u></u>	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	. 7 100	OBL species	x1 =	<u>., ~, .</u>	
4.					FACW species	x2 =		
5.					FAC species	x3 =		
50% = <u>20</u> , 20% = <u>8</u>		40	= Total Cove		FACU species	x4 =		
Herb Stratum (Plot si	ze: 10' diameter)	_			UPL species	x5 =		
Polystichum mun.		<u>25</u>	VAC	FACU		(A)		(B)
	<u>itam</u>		<u>yes</u>	FACU	Column Totals:	(^) ce Index = B/A =		(D)
Rubus ursinus     Residium aguilinus		<u>20</u>	<u>yes</u>					
3. <u>Pteridium aquilinu</u>	<u> </u>	<u>5</u>	<u>no</u>	<u>FACU</u>	Hydrophytic Vegetation Inc			
4 5.					☐ 1 – Rapid Test for Hyd☐ 2 - Dominance Test is	. , ,		
<u> </u>								
6					☐ 3 - Prevalence Index is	; <u>&lt;</u> 3.0¹		
7						ptations <sup>1</sup> (Provide suppo on a separate sheet)	rting	
8					_			
9					5 - Wetland Non-Vasci	ular Plants¹		
10					☐ Problematic Hydrophy	tic Vegetation¹ (Explain)		
11					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must		
50% = <u>25</u> , 20% = <u>10</u>		<u>50</u>	= Total Cove	r	be present, unless disturbed			
Woody Vine Stratum	(Plot size:)							
1					Hadronka dia			
2					Hydrophytic Vegetation	Yes 🗆	No	$\boxtimes$
50% =, 20% =	·		= Total Cove	r	Present?			_
% Bare Ground in He	erb Stratum <u>50</u>							
Remarks:	The hydrophytic vegetation criteria	is not met be	ecause there is	s less than 50	)% dominance by FAC plant ទរុ	pecies.		
I								

SOIL Sampling Point: TP 49 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 silt loam 0-3 100 3-16 2.5YR 5/4 <u>80</u> 10YR 5/6 20 С Μ sa silt loam <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland hydrology.

Project Site:	NK United						City/Coun	ty: <u>Pou</u>	Isbo/Kitsa	<u> 1</u>	36	ampling I	Jale.	10-2	<u> 24-23</u>	<u> </u>
Applicant/Owner:							St	ate: WA	Sa	ampling I	Point:	TP	<u>50</u>			
Investigator(s):	J. Bartlett, M. N	<u>/IiII</u>						S	ection, To	ownship, R	ange:	S 31 T	27 N R 2	<u>EWM</u>		
Landform (hillslope, te	rrace, etc.): <u>l</u>	<u>Hillslope</u>				Loca	al relief (conca	ave, conve	ex, none)	: conve	<u>x</u>		Slop	e (%):	<u>5</u>	
Subregion (LRR):	MLRA 2		Lat:		-			Long:					Datum:		-	
Soil Map Unit Name:	Poulsbo grave	<u>elly sandy loam,</u>	615% sl	<u>lopes</u>						NWI c	lassific	cation:	<u>None</u>			
Are climatic / hydrolog	ic conditions on	the site typical f	or this time	e of ye	ear?	Υ	'es ⊠	No	☐ (It	f no, explai	in in R	emarks.)	)			
Are Vegetation ☐,	Soil □,	or Hydrology	□, sig	gnifica	ntly dis	sturbed	d? Are "N	Normal Ci	ircumstan	ces" prese	nt?		Yes	$\boxtimes$	No	
Are Vegetation ☐,	Soil □,	or Hydrology	□, na	turally	proble	ematic	? (If nee	eded, exp	lain any a	answers in	Rema	rks.)				
SUMMARY OF FIN	DINGS – Atta	ch site map s	showing	sam	pling	point	locations,	transec	ts, impo	rtant fea	tures	, etc.				
Hydrophytic Vegetation	n Present?		Yes		No	$\boxtimes$	la 4h a Oaman	lad A								
Hydric Soil Present?			Yes		No	$\boxtimes$	Is the Samp within a We						Yes		No	$\boxtimes$
Wetland Hydrology Pre	esent?		Yes		No	$\boxtimes$										
Remarks: North Kits	ap United (NK L	Jnited) is located	l along Sto	ottlem	eyer R	oad ar	nd Bond Road	l between	Poulsbo	and Kingst	ton. T	he site is	large so	was di	vided	into
three segr	ments, most of w	vhich are either	clear cut o	r fore	sted.	Γest Pl	ot 50 is locate	ed in a low	v area we	st of Derai	led tra	il.				
/EGETATION - Use	e scientific na	ames of plant	s													
Tree Stratum (Plot size	ze: <u>30' diameter</u> )	)	Absolu % Cov		Domii Speci		Indicator Status	Domin	ance Tes	t Workshe	eet:					
Tsuga heterophyl	lla		10	<u>rei</u>	yes	<u>es :</u>	FACU	Numbo	r of Domi	nant Spaci	ioc					
Pseudotsuga mei			10		ves		FACU			nant Speci ACW, or F			<u>0</u>			(A)
3.	<u></u>						<u></u>	Total N	umbor of	Dominant						
4.				•						All Strata:			<u>6</u>			(B)
50% = <u>10</u> , 20% = <u>4</u>			20		= Tota	al Cov	er	Percen	t of Domi	nant Speci	00					
Sapling/Shrub Stratu	m (Plot size: 20'	diameter)								ACW, or F			<u>0</u>			(A/B)
Gaultheria shallor			20		yes		FACU	Prevale	ence Inde	ex worksh	eet:					
Vaccinium ovaturi	<del>_</del>		<u>15</u>		yes		FACU			al % Cover			Multi	ply by:		
Vaccinium parvifo	<del>_</del> '		<u>10</u>		no		FACU	OBL sp		21 70 00101	<u> </u>		x1 =	<del>,, ,,,</del>		
4. Rubus armeniacu			10		no		FAC		species				x2 =			
5. Frangula purshiai	<del></del> '		<u></u> <u>5</u>		no		FAC	FAC sp					x3 =			
50% = 30, 20% = 12			<u>-</u>			al Cov	<u> </u>	FACU					x4 =			
Herb Stratum (Plot size	ze: 10' diameter	)	<u>55</u>				-	UPL sp	•				x5 =			
1. Rubus ursinus	es. <u>10 diameter</u>	,	<u>20</u>		VAS		<u>FACU</u>				(A	١	ХО			(B)
<u> </u>	it				<u>yes</u>		· · · · · · · · · · · · · · · · · · ·	Column	n Totals:	Dravala		-	^ _	_		(D)
2. Polystichum muni			<u>15</u>		<u>yes</u>		<u>FACU</u>			Prevale			A =			
3. <u>Chamaenerion ar</u>	<u>igustifolium</u>		<u>5</u>		<u>no</u>		<u>FACU</u>			getation li						
4										Test for Hy		_	etation			
5									- Domina	nce Test is	s >50%	0				
6			-		—		—	□ 3	- Prevale	nce Index	is <u>&lt;</u> 3.0	) <sup>1</sup>				
7										logical Ada				orting		
8										Remarks o			e sneet)			
9			-					□ 5	- Wetland	d Non-Vas	cular F	Plants <sup>1</sup>				
10								□ Р	roblemati	ic Hydroph	ytic Ve	egetation	¹ (Explain	)		
11								11mdiaat	toro of bu	dria aail an	ما المريد ام	ما امم	alamı marı			
$50\% = \underline{20}, 20\% = \underline{8}$			<u>40</u>		= Tota	al Cov	er			dric soil an ss disturbe				ot.		
Woody Vine Stratum	(Plot size:	_)														
1																
2			-					Hydrop	-		Vaa			NI.	_	<b>⊠</b>
50% =, 20% =			-		= Tota	al Cov	er	Vegeta Presen			Yes			No	U	
% Bare Ground in He	erb Stratum 60															

Depth	Matri	x				Redox Fea	tures							
nches)	Color (moist)	%		Color (mo	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u> </u>		Remark	s	
0-2	10YR 2/2	100	0						silt loa	<u>m</u>				
<u>2-6</u>	10YR 3/3	100	<u>0</u>		=				sa silt lo	<u></u>	•			
<u>6-16</u>	10YR 5/3	<u>95</u>	<u> 5</u>	10YR 4	<u>/6</u>	<u>5</u>	<u>C</u>	<u>M</u>	sa silt lo	<u> </u>				
			_		-					- —				
		-	_		-				-					
			_		-					<u>sa - sa</u>	<u>anay</u>			
			_		-						•			
 /ne: C= C	oncentration, D=D	enletion	— RM=Redi	ıced Mat	rix CS=C	overed or Co	nated Sand	Grains 2	ocation: PI :	=Pore Lining,	M=Matrix	RC=Roo	t Channel	ı
-	Indicators: (Appl	-								cators for Pro				
	ol (A1)					Redox (S5)				2 cm Muck		•		
Histic	Epipedon (A2)				Strippe	d Matrix (S6)	)			Red Paren	t Material (	(TF2)		
Black	Histic (A3)				Loamy	Mucky Miner	ral (F1) <b>(ex</b>	cept MLRA 1)		Very Shallo	ow Dark Su	urface (T	F12)	
Hydro	gen Sulfide (A4)				Loamy	Gleyed Matri	ix (F2)			Other (Exp	lain in Ren	narks)		
Deplet	ed Below Dark Su	rface (A1	1)		Deplete	ed Matrix (F3	)							
Thick I	Dark Surface (A12	)			Redox	Dark Surface	e (F6)							
Sandy	Mucky Mineral (S	1)			Deplete	ed Dark Surfa	ace (F7)			icators of hydr vetland hydrol				
Sandy	Gleyed Matrix (S4	<del>1</del> )			Redox	Depressions	(F8)			ınless disturbe			,	
	Layer (if present)	:												
rpe:									_		Yes		No	[
								Hydric Soils						
Depth (inche	This soil profile r	neets nor	ne of the h	ydric soi	l indicator	s because of	the high m							
emarks:	This soil profile r	neets nor	ne of the h	ydric soi	I indicator	s because of	the high m							
DROLOG	This soil profile r	rs:				s because of	the high m							
'DROLOG Vetland Hydrimary India	This soil profile r  SY  drology Indicator cators (minimum o	rs:		ck all tha	at apply)				Secor	ndary Indicator	-		ed)	
EDROLOG /etland Hyrrimary India	This soil profile r  This soil profile r  This soil profile r  This soil profile r	rs:			at apply) Water-\$	Stained Leav	res (B9)	natrix colors.	Secon	Water-Stained	d Leaves (E	39)	ed)	
DROLOG letland Hyr rimary India ] Surfac ] High \	This soil profile r  This soil profile r  Gradient of the soil profile r  This soil profile r  This soil profile r	rs:		ck all tha	at apply) Water-{	Stained Leav t MLRA 1, 2,	res (B9)	natrix colors.	Secon	Water-Stained	d Leaves (I	39) <b>3)</b>	ed)	
DROLOG fetland Hyr rimary India Surfac High \	This soil profile r  This soil profile r  This soil profile r  This soil profile r	rs:		ck all tha	at apply) Water-{ (excep Salt Cru	Stained Leav t <b>MLRA 1, 2,</b> ust (B11)	es (B9) 4 <b>A</b> , and 4	natrix colors.	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt	d Leaves (B IA, and 4B terns (B10)	39) 3)	ed)	
DROLOG Tetland Hydrimary India Surfac High \ Satura Water	This soil profile r This soil profile r  drology Indicator cators (minimum o ce Water (A1)  Vater Table (A2) ation (A3)  Marks (B1)	's: f one requ		ck all tha	at apply)  Water-{ (excep Salt Cro Aquatic	Stained Leav t MLRA 1, 2, ust (B11) c Invertebrate	es (B9) , <b>4A, and 4</b> l	natrix colors.	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season V	d Leaves (I IA, and 4B erns (B10) Vater Table	39) 3) ⇒ (C2)	·	
DROLOG etland Hydrimary India   Surfac   High \   Satura   Water   Sedim	This soil profile r	's: f one requ		ck all tha	at apply)  Water-S (excep Salt Crr Aquatic Hydrog	Stained Leav t MLRA 1, 2, ust (B11) c Invertebrate gen Sulfide O	es (B9) , <b>4A, and 4</b> es (B13) dor (C1)	natrix colors.	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis	d Leaves (I IA, and 4B terns (B10) Vater Table sible on Ae	39)  (C2)  (C3)	·	
DROLOG Tetland Hyr Timary India Timary India Timary Surface Timary India Timary India Timary India Timary India	This soil profile r	's: f one requ		ck all tha	at apply) Water-S (excep Salt Cn Aquatic Hydrog Oxidize	Stained Leav  t MLRA 1, 2,  ust (B11)  c Invertebrate  len Sulfide Oct	res (B9) , <b>4A, and 4</b> es (B13) dor (C1) eres along L	B)	Secor	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F	d Leaves (I IA, and 4B Jerns (B10) Vater Table Sible on Ae Position (D2	39)  (C2)  (C3)	·	
DROLOG /etland Hy rimary India   Surfac   High \   Satura   Water   Sedim   Drift □	This soil profile r	's: f one requ		ck all tha	at apply)  Water-5 (excep Salt Cro Aquatic Hydrog Oxidize Presen	Stained Leav  It MLRA 1, 2, ust (B11) Invertebrate gen Sulfide Or ed Rhizosphe ice of Reduce	es (B9) 4A, and 4 es (B13) dor (C1) eres along L ed Iron (C4)	B)  Living Roots (C)	Secor	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit	d Leaves (I IA, and 4B erns (B10) Vater Table sible on Ae Position (D2) ard (D3)	39)  (C2)  (C3)	·	
DROLOG  /etland Hy rimary India  Surfac  High \ Satura  Water  Sedim  Drift C  Algal   Iron D	This soil profile r This soil profile r drology Indicator cators (minimum of ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) deposits (B5)	r <b>s:</b> f one requ		ck all tha	at apply)  Water-S (excep Salt Cro Aquatic Hydrog Oxidize Present	Stained Leav  t MLRA 1, 2, ust (B11) c Invertebrate gen Sulfide Or ed Rhizosphe cce of Reduce	es (B9)  4A, and 4  es (B13)  dor (C1)  eres along L  ed Iron (C4)  on in Tilled	B) Living Roots (C) Soils (C6)	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	d Leaves (I IAA, and 4B terns (B10) Vater Table sible on Ae Position (D: ard (D3)	39)  (C2)  (C2)  (C3)	ery (C9)	
DROLOG /etland Hydrimary Indic   Surfac   High \   Satura   Water   Sedim   Drift D   Algal     Iron D	This soil profile r	rs: f one requ	uired; che	ck all tha	at apply)  Water-C (excep Salt Cri Aquatic Hydrog Oxidize Present Recent Stunted	Stained Leav  t MLRA 1, 2, ust (B11) c Invertebrate ten Sulfide Or ed Rhizosphe ce of Reduce thron Reduction	es (B9)  4A, and 4  es (B13) dor (C1) eres along L ed Iron (C4) on in Tilled Plants (D1	B) Living Roots (C) Soils (C6)	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo	d Leaves (I IAA, and 4B terns (B10) Vater Table sible on Ae Position (D: ard (D3) Test (D5) ounds (D6)	39)  (C2)  (C2)  (I)  (LRR A	ery (C9)	
EDROLOG  /etland Hydrimary India    Surface   Water   Sedim   Drift D   Algal     Iron D   Surface   Inunda	This soil profile r	rs: f one requ	uired; che	ck all tha	at apply)  Water-C (excep Salt Cri Aquatic Hydrog Oxidize Present Recent Stunted	Stained Leav  t MLRA 1, 2, ust (B11) c Invertebrate gen Sulfide Or ed Rhizosphe cce of Reduce	es (B9)  4A, and 4  es (B13) dor (C1) eres along L ed Iron (C4) on in Tilled Plants (D1	B) Living Roots (C) Soils (C6)	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	d Leaves (I IAA, and 4B terns (B10) Vater Table sible on Ae Position (D: ard (D3) Test (D5) ounds (D6)	39)  (C2)  (C2)  (I)  (LRR A	ery (C9)	
DROLOG  Tetland Hyr rimary India  Surfac  High \ Satura  Vater  Sedim  Drift D  Algal   Iron D  Surfac  Inunda	This soil profile r	rs: f one requ	uired; che	ck all tha	at apply)  Water-C (excep Salt Cri Aquatic Hydrog Oxidize Present Recent Stunted	Stained Leav  t MLRA 1, 2, ust (B11) c Invertebrate ten Sulfide Or ed Rhizosphe ce of Reduce thron Reduction	es (B9)  4A, and 4  es (B13) dor (C1) eres along L ed Iron (C4) on in Tilled Plants (D1	B) Living Roots (C) Soils (C6)	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo	d Leaves (I IAA, and 4B terns (B10) Vater Table sible on Ae Position (D: ard (D3) Test (D5) ounds (D6)	39)  (C2)  (C2)  (I)  (LRR A	ery (C9)	
DROLOG /etland Hy- rimary India   Surfac   High \   Satura   Water   Sedim   Drift D   Algal     Iron D   Surfac   Inund:   Spars   Spars	This soil profile r	rs:  If one requestions  Prial Imagence Sur	uired; che ery (B7) rface (B8)	ck all tha	at apply)  Water-5 (excep Salt Cro Aquatic Hydrog Oxidize Presen Recent Stuntec Other (i	Stained Leav  It MLRA 1, 2, ust (B11) Invertebrate gen Sulfide O ed Rhizosphe ice of Reduce Iron Reducti d or Stresses Explain in Re	es (B9) 4A, and 4 es (B13) dor (C1) eres along L ed Iron (C4) on in Tilled Plants (D1 emarks)	B) Living Roots (C) Soils (C6)	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo	d Leaves (I IAA, and 4B terns (B10) Vater Table sible on Ae Position (D: ard (D3) Test (D5) ounds (D6)	39)  (C2)  (C2)  (I)  (LRR A	ery (C9)	
DROLOG Tetland Hydrimary India Surface High V Sedim Drift D Sedim Drift D Surface I Surface I Surface Surface Sparse	This soil profile r	rs: f one requ  rial Image ncave Sur	uired; che lery (B7) rface (B8)	ck all tha	at apply)  Water-5 (excep Salt Cro Aquatic Hydrog Oxidize Presen Recent Stuntec Other (i	Stained Leav  t MLRA 1, 2, ust (B11) c Invertebrate gen Sulfide Or ed Rhizosphe ce of Reduce i Iron Reducti d or Stresses Explain in Re	res (B9)  4A, and 4  es (B13)  dor (C1) eres along Led Iron (C4) fon in Tilled  Plants (D1  emarks)	B) Living Roots (C) Soils (C6)	Secon	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo	d Leaves (I IAA, and 4B terns (B10) Vater Table sible on Ae Position (D: ard (D3) Test (D5) ounds (D6)	39)  (C2)  (C2)  (I)  (LRR A	ery (C9)	
PROLOGIVE INTERPOLOGIVE INTERP	This soil profile r	ers:  If one required from the requirement of the r	uired; che ery (B7) rface (B8)	ck all tha	at apply)  Water-s  (excep  Salt Cn  Aquatic  Hydrog  Oxidize  Presen  Recent  Stunted  Other (I	Stained Leav  It MLRA 1, 2, ust (B11) Invertebrate gen Sulfide O ed Rhizosphe ice of Reduce Iron Reducti d or Stresses Explain in Re	res (B9) 4A, and 4 es (B13) dor (C1) eres along L ed Iron (C4) on in Tilled Plants (D1 emarks)	B) Living Roots (C) Soils (C6) (LRR A)	Secor	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo	d Leaves (I IA, and 4B Ierns (B10) Vater Table Sible on Ae Position (D: ard (D3) Test (D5) ounds (D6) Hummocks	39)  (C2)  (C2)  (I)  (LRR A	ery (C9)	
EMARKS:  EMA	This soil profile r	rs: f one requ  rial Image ncave Sur  Yes  Yes  Yes	uired; che	ck all that	at apply) Water-S (excep Salt Cro Aquatic Hydrog Oxidize Present Stunted Other (I	Stained Leav  It MLRA 1, 2, ust (B11) Invertebrate ten Sulfide Or It Reducte Iron Reducte Iron Reducte Iron Reducti n Iron Reduction Iron Reduction Iron Reduction Iron Iron Iron Iron Iron Iron Iron Ir	es (B9)  4A, and 4  es (B13)  dor (C1) eres along Led Iron (C4) fon in Tilled Plants (D1 emarks)	B) Living Roots (C) Soils (C6) (LRR A)	Secor	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo Frost-Heave H	d Leaves (I IA, and 4B Ierns (B10) Vater Table Sible on Ae Position (D: ard (D3) Test (D5) ounds (D6) Hummocks	39)  (C2)  (C2)  (Fial Image (C2)  (LRR A	ery (C9)	
EMARKS:  EMA	This soil profile r	rs: f one requ  rial Image ncave Sur  Yes  Yes  Yes	uired; che	ck all that	at apply) Water-S (excep Salt Cro Aquatic Hydrog Oxidize Present Stunted Other (I	Stained Leav  It MLRA 1, 2, ust (B11) Invertebrate ten Sulfide Or It Reducte Iron Reducte Iron Reducte Iron Reducti n Iron Reduction Iron Reduction Iron Reduction Iron Iron Iron Iron Iron Iron Iron Ir	es (B9)  4A, and 4  es (B13)  dor (C1) eres along Led Iron (C4) fon in Tilled Plants (D1 emarks)	B) Living Roots (C) Soils (C6) (LRR A)	Secor	Water-Stained (MLRA 1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo Frost-Heave H	d Leaves (I IA, and 4B Ierns (B10) Vater Table Sible on Ae Position (D: ard (D3) Test (D5) ounds (D6) Hummocks	39)  (C2)  (C2)  (Fial Image (C2)  (LRR A	ery (C9)	

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

Project Site:	NK United						City/Coun	ty: <u>Po</u>	ulsbo/Kitsa	<u>ар</u>	Sampl	ling Date:	10-	24-23	
Applicant/Owner:	Raydient								S	tate: <u>WA</u>	Sampl	ling Point:	TP	<u>51</u>	
Investigator(s):	J. Bartlett, M. M	<u>lill</u>						,	Section, To	ownship, Rai	nge: <u>S (</u>	31 T 27 N R 2	2 EWM		
Landform (hillslope, terr	race, etc.): <u>H</u>	<u>lillslope</u>				Loca	al relief (conca	ave, con	vex, none)	: <u>convex</u>		Slo	pe (%):	<u>5</u>	
Subregion (LRR):	MLRA 2		Lat:		_			Long	:			Datum:		_	
Soil Map Unit Name:	Poulsbo grave	lly sandy loam, 6	615% sl	lopes						NWI cla	ssificatio	n: <u>None</u>			
Are climatic / hydrologic	c conditions on t	he site typical fo	r this time	e of y	ear?	Υ	′es ⊠	No	☐ (I	f no, explain	in Rema	ırks.)			
Are Vegetation ☐,	Soil □,	or Hydrology	□, sig	gnifica	ntly dis	sturbed	d? Are "N	Normal C	Circumstar	ces" presen	t?	Yes	$\boxtimes$	No	
Are Vegetation ☐,	Soil □,	or Hydrology	□, na	turally	y probl	ematic	? (If nee	eded, ex	plain any	answers in R	emarks.	)			
SUMMARY OF FINE	DINGS – Attac	ch site map s	howing	sam	pling	point	locations,	transe	cts, impo	ortant feat	ures, et	c.			
Hydrophytic Vegetation	Present?		Yes		No	$\boxtimes$	Is the Samp	lad Arac	_						
Hydric Soil Present?			Yes		No	$\boxtimes$	within a We		2			Yes		No	$\boxtimes$
Wetland Hydrology Pre	sent?		Yes		No	$\boxtimes$									
Remarks: North Kitsa													was di	ivided	into
three segm	nents, most of wi	hich are either c	lear cut o	r fore	sted.	Test Pl	lot 51 is locate	ed in map	pped strea	m area in no	orthern se	egment.			
<u> 'EGETATION – Use</u>	scientific na	mes of plants						1							
Tree Stratum (Plot size	e: 30' diameter)		Absolu % Cov		Domi Speci		Indicator <u>Status</u>	Domii	nance Tes	st Workshee	et:				
1. Pseudotsuga men	ıziesii		<u>10</u>		yes		FACU	Numb	er of Dom	inant Specie	s				(4)
2										ACW, or FA		<u>0</u>			(A)
3								Total I	Number of	Dominant		_			<b>(D)</b>
4								Specie	es Across	All Strata:		<u>5</u>			(B)
50% = <u>5,</u> 20% = <u>2</u>			<u>10</u>		= Tot	al Cov	er	Perce	nt of Domi	nant Species	3				(A (D)
Sapling/Shrub Stratum	<u>n</u> (Plot size: <u>20' c</u>	<u>diameter</u> )								ACW, or FA		<u>0</u>			(A/B)
1. Tsuga heterophylla	<u>a</u>		<u>35</u>		yes		<u>FACU</u>	Preva	lence Ind	ex workshe	et:				
2. Gaultheria shallon	<u>!</u>		<u>20</u>		yes		<u>FACU</u>		Tot	al % Cover o	of:	Mul	tiply by:	<u>.</u>	
3. Alnus rubra			<u>15</u>		<u>no</u>		<u>FAC</u>	OBL s	pecies		_	x1 =	<u> </u>		
4. Vaccinium ovatum	<u>1</u>		<u>10</u>		no		<u>FACU</u>	FACW	/ species		_	x2 =	<u> </u>		
5. Vaccinium parvifol	<u>lium</u>		<u>10</u>		no		<u>FACU</u>	FAC s	pecies		_	x3 =	<u> </u>		
50% = <u>45,</u> 20% = <u>18</u>			90		= Tot	al Cov	er	FACU	species		_	x4 =	<u> </u>		
Herb Stratum (Plot siz	ze: 10' diameter)							UPL s	pecies			x5 =	=		
1. Rubus ursinus			<u>10</u>		yes		FACU		n Totals:		(A)				(B)
Polystichum munit	tum		<u>10</u>				FACU	Colum	in rotais.	Prevalend	_ , ,	= R/Δ =			(5)
·	<u>,um</u>		10		yes		IACO	Llyde	nbutio Va				_		
3										getation Ind					
4									-	Test for Hyd		vegetation			
5									2 - Domina	ance Test is	>50%				
6								⊔ :	3 - Prevale	ence Index is	s <u>&lt;</u> 3.0¹				
7												(Provide supp	porting		
8											-	arate sheet)			
9									5 - Wetlan	d Non-Vascı	ılar Plant	ts <sup>1</sup>			
10									Problemat	ic Hydrophyt	ic Vegeta	ation¹ (Explai	n)		
11								4							
50% = <u>10</u> , 20% = <u>4</u>			<u>20</u>		= Tot	al Cov	er			dric soil and ss disturbed		hydrology mu ematic.	ıst		
Woody Vine Stratum (	Plot size:	_)													
1															
2								_	phytic			_	_		_
50% =, 20% = _					= Tot	al Cov	er	Veget			Yes		N	0	$\boxtimes$
% Bare Ground in Her	rb Stratum 80							Prese	nit f						
т	The hydrophytic v	vegetation criteri	a is not n	net he	ecause	there	is less than 50	I )% domi	nance by	FAC plant er	ecies				
Remarks:	no nyaropnyuo v	Togolalion onlon	a 10 110t 11		Juuse		io iooo tilali ot	. 70 GOIII	nance by	. , to plant st	,				
romano.															

Project Site: NK United

SOIL Sampling Point: TP 51 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Texture Color (moist) % Color (moist) % Type<sup>1</sup> Loc<sup>2</sup> Remarks 10YR 2/2 silt loam 0-2 100 2-16 2.5YR 6/2 <u>30</u> 10YR 4/6 <u>15</u> C Μ sa silt loam 2-16 10YR 5/4 <u>55</u> sa - sandy <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, RC=Root Channel Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Loamy Gleyed Matrix (F2) Hydrogen Sulfide (A4) 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, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: **Hydric Soils Present?** Yes No  $\boxtimes$ Depth (inches): Remarks: This soil profile meets none of the hydric soil indicators because of the high matrix colors. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) П Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) (MLRA 1, 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 (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stresses 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?  $\boxtimes$ Depth (inches): Yes No  $\boxtimes$ Water Table Present? Yes No Depth (inches): Saturation Present? Wetland Hydrology Present? No  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: There was no hydrology present and there were no indicators of wetland or stream hydrology.

# APPENDIX D

WASHINGTON DEPARTMENT OF ECOLOGY, WETLAND RATING FORM & FIGURES

# **RATING SUMMARY – Western Washington**

Name of wetland (or ID #): NK United		Date of site	visit: <u>October 19, 2023</u>
Rated by <u>: J. Bartlett</u>	Trained by Ecology? <u>X</u>	_Yes _No	Date of training: 11/14
HGM Class used for rating: Depressional	Wetland has multiple	e HGM class	es?Y <u>X</u> N

**NOTE**: Form is not complete without the required figures (figures can be combined).

Source of base aerial photo/map: Google Earth

#### **OVERALL WETLAND CATEGORY IV** (based on functions X or special characteristics \_\_\_)

#### 1. Category of wetland based on FUNCTIONS

FUNCTION	Improving Water Quality		Hydrologic		Habitat					
				C	ircle t	he app	roprio	ate rati	ngs	
Site Potential	Н	M	L	Н	М	L	Н	М	L	
Landscape Potential	Н	M		Η	М		$\equiv$	М	П (	
Value	$\pm$	М	L	Н	М	(L)	Η	M	L	TOTAL
Score Based on Ratings		6			3			6		15

Score for each function based on three ratings (order of ratings is not important) 9 = H, H, H8 = H, H, M7 = H, H, L 7 = H, M, M6 = H, M, L6 = M, M, M5 = H, L, L 5 = M, M, L4 = M, L, L3 = L, L, L

## 2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	CATEGORY		
Estuarine	I	II	
Wetland of High Conservation Value		I	
Bog		I	
Mature Forest		I	
Old Growth Forest		I	
Coastal Lagoon	I	II	
Interdunal	I II	III IV	
None of the above		X	

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

<u>Depressional Wetlands</u>

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	D-1
Hydroperiods	D 1.4, H 1.2	D-1
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	D-1
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	D-1
Map of the contributing basin	D 4.3, D 5.3	D-2
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	D-2
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	D-3
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	D-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 polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
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 polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
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 dense trees, shrubs, and herbaceous plants	S 1.3	
Plant cover of <b>dense, rigid</b> trees, shrubs, and herbaceous plants (can be added to figure above)	S 4.1	
Boundary of 150 ft buffer (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 polygons for accessible habitat and total habitat	H 2.1, H 2.2, H 2.3	
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 Wetlands in Western Washington**

For questions 1-7, the criteria described must apply to the entire unit being rated.

If the 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

YES – the wetland class is Tidal Fringe – 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)?

#### NO – Saltwater Tidal Fringe (Estuarine)

YES - Freshwater Tidal Fringe

If your wetland can be classified as a Freshwater Tidal Fringe use the forms for **Riverine** wetlands. If it is Saltwater Tidal Fringe, it is an **Estuarine** wetland and is not scored. This method **cannot** be used to score functions for estuarine wetlands.

2. The entire wetland unit is flat, and precipitation is the only source (>90%) of water to it. Groundwater and surface water runoff are NOT sources of water to the unit.

NO – go to 3

YES - The wetland class is Flats

If your wetland can be classified as a Flats wetland, use the form for **Depressional** wetlands.

- 3. Does the entire wetland unit **meet all** of the following criteria?
  - \_\_The vegetated part of the wetland is on the shores of a body of permanent open water (without any plants on the surface at any time of the year) at least 20 ac (8 ha) in size,
  - \_\_At least 30% of the open water area is deeper than 6.6 ft (2 m).

NO – go to 4

YES - The wetland class is Lake Fringe (Lacustrine Fringe)

- 4. Does the entire wetland unit meet all of the following criteria?
  - The wetland is on a slope (slope can be very gradual),
  - \_\_\_\_The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheet flow, or in a swale without distinct banks,
    - The water leaves the wetland without being impounded.

NO - go to 5

**YES** – The wetland class is **Slope** 

**NOTE**: Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks (depressions are usually <3 ft diameter and less than 1 ft deep).

W	etland name or number
5.	Does the entire wetland unit <b>meet all</b> of the following criteria? The unit is in a valley, or stream channel, where it gets inundated by overbank flooding from that stream or river, The overbank flooding occurs at least once every 2 years.
	NO – go to 6  YES – The wetland class is Riverine  NOTE: The Riverine unit can contain depressions that are filled with water when the river is not flooding

6. Is the entire wetland unit in a topographic depression in which water ponds, or is saturated to the surface, at some time during the year? This means that any outlet, if present, is higher than the interior of the wetland.

NO - go to 7

YES – The wetland class is **Depressional** 

7. Is the entire wetland unit located in a very flat area with no obvious depression and no overbank flooding? The unit does not pond surface water more than a few inches. The unit seems to be maintained by high groundwater in the area. The wetland may be ditched but has no obvious natural outlet.

NO - go to 8

YES – The wetland class is Depressional

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.

Water Quality Functions - Indicators that the site functions to improve water quality  D 1.0. Does the site have the potential to improve water quality?  D 1.1. Characteristics of surface water outflows from the wetland:  Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet).  points = 3  Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet.	2
D 1.1. Characteristics of surface water outflows from the wetland:  Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet).  points = 3	2
Wetland is a depression or flat depression (QUESTION 7 on key) with no surface water leaving it (no outlet).  points = 3	2
points = 3	
Wetland has an intermittently flowing stream or ditch, OR highly constricted permanently flowing outlet.	
points = 2	
Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing points = 1 Wetland is a flat depression (QUESTION 7 on key), whose outlet is a permanently flowing ditch. points = 1	
D 1.2. The soil 2 in. below the surface (or duff layer) is true clay or true organic (use NRCS definitions). Yes = 4 No = 0	0
D 1.3. Characteristics and distribution of persistent plants (Emergent, Scrub-shrub, and/or Forested Cowardin classes):	5
Wetland has persistent, ungrazed plants > 95% of area points = 5	
Wetland has persistent, ungrazed plants > ½ of area points = 3	
Wetland has persistent, ungrazed plants $\geq \frac{1}{10}$ of area points = 1	
Wetland has persistent, ungrazed plants $<^1/_{10}$ of area points = 0	
D 1.4. Characteristics of seasonal ponding or inundation:	4
This is the area that is ponded for at least 2 months. See description in manual.	
Area seasonally ponded is > ½ total area of wetland points = 4	
Area seasonally ponded is ≥ ¼ total area of wetland points = 2	
Area seasonally ponded is < ¼ total area of wetland points = 0	
Total for D 1 Add the points in the boxes above	11

D 2.0. Does the landscape have the potential to support the water quality function of the site?				
D 2.1. Does the wetland unit receive stormwater discharges?	Yes = 1 No = 0	0		
D 2.2. Is > 10% of the area within 150 ft of the wetland in land uses that generate pollutants?	Yes = 1 No = 0	0		
D 2.3. Are there septic systems within 250 ft of the wetland?	Yes = 1 No = 0	0		
D 2.4. Are there other sources of pollutants coming into the wetland that are not listed in question	ons D 2.1-D 2.3?	0		
Source	Yes = 1 No = 0			
Total for D 2 Add the points	in the boxes above	0		

Rating of Landscape Potential If score is: \_\_3 or 4 = H \_\_1 or 2 = M \_X\_0 = L Record the rating on the first page

D 3.0. Is the water quality improvement provided by the site valuable to society?		
D 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the		0
303(d) list?	Yes = 1 No = 0	
D 3.2. Is the wetland in a basin or sub-basin where an aquatic resource is on the 303(d) list?	Yes = 1 No = 0	0
D 3.3. Has the site been identified in a watershed or local plan as important for maintaining water	r quality? (Answer YES	2
if there is a TMDL in development or in effect for the basin in which the unit is found.)	Yes = 2 No = 0	
Total for D 3 Add the points	in the boxes above	2

Rating of Value If score is: X 2-4 = H 1 = M 0 = L

Record the rating on the first page

DEPRESSIONAL AND FLATS WETLANDS	
Hydrologic Functions - Indicators that the site functions to reduce flooding and stream degradat	ion
D 4.0. Does the site have the potential to reduce flooding and erosion?	
D 4.1. Characteristics of surface water outflows from the wetland:  Wetland is a depression or flat depression with no surface water leaving it (no outlet)  Wetland has an intermittently flowing stream/ditch, OR highly constricted permanently flowing outlet points = 2  Wetland is a flat depression (question 7 on key), whose outlet is a permanently flowing ditch  Wetland has an unconstricted, or slightly constricted, surface outlet that is permanently flowing  points = 0	2
D 4.2. Depth of storage during wet periods: Estimate the height of ponding above the bottom of the outlet. For wetlands with no outlet, measure from the surface of permanent water or if dry, the deepest part.  Marks of ponding are 3 ft or more above the surface or bottom of outlet  Marks of ponding between 2 ft to < 3 ft from surface or bottom of outlet  Marks are at least 0.5 ft to < 2 ft from surface or bottom of outlet  The wetland is a "headwater" wetland  Wetland is flat but has small depressions on the surface that trap water  Marks of ponding less than 0.5 ft (6 in)  D 4.2. Depth of storage during wet periods:  Points = 7  Points = 5  Points = 3  Points = 3  Points = 1  Points = 0	3
D 4.3. Contribution of the wetland to storage in the watershed: Estimate the ratio of the area of upstream basin contributing surface water to the area of the wetland unit itself.  The area of the basin is less than 10 times the area of the unit points = 5  The area of the basin is 10 to 100 times the area of the unit points = 3  The area of the basin is more than 100 times the area of the unit points = 0  Entire wetland is in the Flats class points = 5	0
Total for D 4 Add the points in the boxes above	5
Rating of Site Potential If score is:12-16 = H6-11 = MX_0-5 = L	Jirst page
D 5.0. Does the landscape have the potential to support hydrologic functions of the site?  D 5.1. Does the wetland receive stormwater discharges?  Yes = 1 No = 0	0
	0
D 5.2. Is >10% of the area within 150 ft of the wetland in land uses that generate excess runoff?  Ves = 1 No = 0  D 5.3. Is more than 25% of the contributing basin of the wetland covered with intensive human land uses (residential at >1 residence/ac, urban, commercial, agriculture, etc.)?  Yes = 1 No = 0	0
Total for D 5 Add the points in the boxes above	0
Rating of Landscape Potential If score is:3 = H1 or 2 = MX_0 = L	first page
D 6.0. Are the hydrologic functions provided by the site valuable to society?	
D 6.1. Is the unit in a landscape that has flooding problems? Choose the description that best matches conditions around the wetland unit being rated. Do not add points. Choose the highest score if more than one condition is met.  The wetland captures surface water that would otherwise flow downgradient into areas where flooding has damaged human or natural resources (e.g., houses or salmon redds):  Flooding occurs in a sub-basin that is immediately downgradient of unit.  Surface flooding problems are in a sub-basin farther downgradient.  Flooding from groundwater is an issue in the sub-basin.  The existing or potential outflow from the wetland is so constrained by human or natural conditions that the	0
<ul> <li>water stored by the wetland cannot reach areas that flood. Explain why points = 0</li> <li>There are no problems with flooding downstream of the wetland. points = 0</li> </ul>	
D 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan?  Yes = 2 No = 0	0
Total for D 6 Add the points in the boxes above	0

Rating of Value If score is: \_\_\_2-4 = H \_\_\_\_1 = M \_\_X\_0 = L

Record the rating on the first page

#### 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 0 Cowardin plant classes in the wetland. Up to 10 patches may be combined for each class to meet the threshold of ¼ ac if the unit is at least 2.5 ac, or more than 10% of the unit if it is smaller than 2.5 ac. \_\_\_\_Aquatic bed 4 structures or more: points = 4 \_\_\_Emergent 3 structures: points = 2 X 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/groundcover) that each cover 20% within the Forested polygon 0 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 if the unit is < 2.5 ac, or ¼ ac if the unit is at least 2.5 ac to count (see text for descriptions of hydroperiods). Permanently flooded or inundated 4 or more types present: points = 3 X Seasonally flooded or inundated 3 types present: points = 2 Occasionally flooded or inundated 2 types present: points = 1 Saturated only 1 type present: points = 0 Permanently flowing stream or river in, or adjacent to, the wetland Intermittently or seasonally flowing stream in, or adjacent to, the wetland Lake Fringe wetland 2 points Freshwater tidal wetland 2 points 1 H 1.3. Richness of plant species Count the number of plant species in the wetland that cover at least 10 ft<sup>2</sup>. 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, Canada thistle If you counted: > 19 species points = 2 5 - 19 species points = 1 < 5 species points = 0 H 1.4. Interspersion of habitats 0 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. Moderate = 2 points None = 0 points Low = 1 point All three diagrams in this row are High = 3 points

H 1.5. Special habitat features:	2
Check the habitat features that are present in the wetland. The number of checks is the number of points.	
$\underline{X}$ Large, downed, woody debris within the wetland (> 4 in. diameter and 6 ft long).	
Standing snags (dbh > 4 in.) within the wetland	
Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extend at least 3.3 ft (1 m) over open water or 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)	
At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas that are permanently or seasonally inundated (structures for egg-laying by amphibians) XInvasive plants cover less than 25% of the wetland area in every stratum of plants (see H 1.1 above for the list of strata and H 1.5 in the manual for the list of aggressive plant species)	
Total for H 1 Add the points in the boxes above	3

Rating of Site Potential If score is: 15-18 = H 7-14 = M X 0-6 = L

Record the rating on the first page

H 2.0. Does the landscape have the potential to support the habitat functions of	f the site?	
H 2.1. Accessible habitat (include only habitat polygons accessible from the wetland.		3
Calculate: % relatively undisturbed habitat 64.7 + [(% moderate and low intensity	y land uses)/2] <u>12.4</u> = <u>77.1</u> %	
Total accessible habitat is:		
$> \frac{1}{3}$ (33.3%) of 1 km Polygon	points = 3	
20-33% of 1 km Polygon	points = 2	
10-19% of 1 km Polygon	points = 1	
< 10% of 1 km Polygon	points = 0	
H 2.2. Total habitat in 1 km Polygon around the wetland.		3
Calculate: % relatively undisturbed habitat 69.6 + [(% moderate and low intensit	y land uses)/2] <u>13.8</u> = <u>83.4</u> %	
Total habitat > 50% of Polygon	points = 3	
Total habitat 10-50% and in 1-3 patches	points = 2	
Total habitat 10-50% and > 3 patches	points = 1	
Total habitat < 10% of 1 km Polygon	points = 0	
H 2.3. Land use intensity in 1 km Polygon:		0
> 50% of 1 km Polygon is high intensity land use	points = (- 2)	
≤ 50% of 1 km Polygon is high intensity	points = 0	
Total for H 2 Add	the points in the boxes above	6

Rating of Landscape Potential If score is: X 4-6 = H 1-3 = M < 1 = L

Record 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 data — 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) within 100 m points = 1 Site does not meet any of the criteria above

Rating of Value If score is: \_\_2 = H \_X 1 = M \_\_\_0 = L

Record the rating on the first page

# **WDFW Priority Habitats**

**See complete descriptions of Priority Habitats listed by WDFW**, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008 (current year, as revised). Priority Habitat and Species List. 133 This list was updated for consistency with guidance from WDFW.

This question is independent of the land use between the wetland unit and the Priority Habitat. All vegetated wetlands are by definition a Priority Habitat but are not included in this list because they are addressed by this rating system.

Count how many of the following Priority Habitats are within 330 ft (100 m) of the wetland unit:

- **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. This habitat automatically counts if mapped on the PHS online map within 100m of the wetland. If not mapped, a determination can be made in the field.
- **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.
- Fresh Deepwater: Lands permanently flooded with freshwater, including environments where surface water is permanent and often deep, so that water, rather than air, is the principal medium within which the dominant organisms live. Substrate does not support emergent vegetation. Do not select if Instream habitat is also present, or if the entire Deepwater feature is included in the wetland unit being rated (such as a pond with a vegetated fringe).
- Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
- 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. Do not select if Fresh Deepwater habitat is also present.
- Nearshore: Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore.
- 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) diameter at breast height (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.

http://wdfw.wa.gov/publications/00165/wdfw00165.pdf
 Wetland Rating System for Western WA: 2014 Update
 Rating Form – Version 2, July 2023

Wetland	name	or	number	
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- Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important. For single oaks or oak stands <0.4 ha in urban areas, <u>WDFW's</u> <u>Management Recommendations for Oregon White Oak</u> provides more detail for determining if they are Priority Habitats
- **Riparian:** The area adjacent to freshwater aquatic systems with flowing or standing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
- X 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.
- **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.
- **Westside Prairies:** Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie.

<sup>&</sup>lt;sup>134</sup> https://wdfw.wa.gov/publications/00030/wdfw00030.pdf Wetland Rating System for Western WA: 2014 Update Rating Form – Version 2, July 2023

### **CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS**

CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS	
Wetland Type	Category
Check off any criteria that apply to the wetland. Circle the category when the appropriate criteria are met.	
SC 1.0. 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 <b>SC 1.1</b> No= <b>Not an estuarine wetland</b>	
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?	Cat. I
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	Cat. I
than 10% cover of non-native plant species. If non-native species are <i>Spartina</i> , see chapter 4.8 in the manual.	
— 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.	Cat. II
— 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 2.0. Wetlands of High Conservation Value (WHCV)	
SC 2.1. Does the wetland overlap with any known or historical rare plant or rare & high-quality ecosystem polygons	
on the WNHP <u>Data Explorer</u> ? <sup>135</sup> Yes = <b>Category I</b> No – Go to <b>SC 2.2</b>	Cat. I
SC 2.2. Does the wetland have a rare plant species, rare ecosystem (e.g., plant community), or high-quality common	
ecosystem that may qualify the site as a WHCV? Contact WNHP for resources to help determine the	
presence of these elements.	
Yes – <u>Submit data to WA Natural Heritage Program for determination</u> , <sup>136</sup> Go to SC 2.3 No = Not a WHCV	
SC 2.3. Did WNHP review the site within 30 days and determine that it has a rare plant or ecosystem that meets their criteria?	
Yes = Category I No = Not a WHCV	
SC 3.0. Bogs	
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 wetland based on its functions.	
SC 3.1. Does an area within the wetland unit have organic soil horizons, either peats or mucks, that compose 16 in	
or more of the first 32 in. of the soil profile? Yes – Go to <b>SC 3.3</b> No – Go to <b>SC 3.2</b> SC 3.2. Does an area within the wetland unit have organic soils, either peats or mucks, that are 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 = Not a bog	<b>&gt;</b>
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 = Category I bog No – Go to SC 3.4	
NOTE: 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	Cat. I
the plant species in Table 4 are present, the wetland is a bog.  SC 3.4. Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir, western red cedar,	Cat. I
western hemlock, lodgepole pine, quaking aspen, Engelmann 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 = Category I bog No = Not a bog	
Yes = Category I bog NO = Not a bog	

<sup>135</sup> https://www.dnr.wa.gov/NHPdata

<sup>&</sup>lt;sup>136</sup> https://www.dnr.wa.gov/Publications/amp\_nh\_sighting\_form.pdf Wetland Rating System for Western WA: 2014 Update Rating Form – Version 2, July 2023

SC 4.0. 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 answer YES, you will still need to rate the wetland based on its functions.</i>	
— 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.	
<ul> <li>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).</li> </ul>	
Yes = Category I No = Not a forested wetland for this section	Cat. I
SC 5.0. Wetlands in Coastal Lagoons	
Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?	
<ul> <li>The wetland lies in a depression adjacent to marine waters that is wholly or partially separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently, rocks</li> </ul>	
<ul> <li>The lagoon in which the wetland is located contains ponded water that is saline or brackish (&gt; 0.5 ppt)</li> <li>during most of the year in at least a portion of the lagoon (needs to be measured near the bottom)</li> </ul>	
<ul> <li>The lagoon retains some of its surface water at low tide during spring tides</li> </ul>	
Yes – Go to SC 5.1 No = Not a wetland in a coastal lagoon	Cat. I
SC 5.1. Does the wetland meet all of the following three conditions?	-
— The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less than 20% cover of aggressive, opportunistic plant species (see list of species in H 1.5 in the manual).	
— At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or unmowed grassland.	Cat. II
— The wetland is larger than $^{1}/_{10}$ ac (4350 ft <sup>2</sup> )	
Yes = Category I No = Category II	
SC 6.0. Interdunal Wetlands  Is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? If  you answer YES, you will still need to rate the wetland based on its habitat functions.  In practical terms that means the following geographic areas:  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 and Ocean Shores Blvd SW, including lands west	Cat I
of E. Oceans Shores Blvd SW.  Yes – Go to SC 6.1  No = Not an interdunal wetland for rating	
	Cat. II
SC 6.1. 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)?  Yes = Category I  No – Go to SC 6.2	Cat. III
SC 6.2. Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger?  Yes = Category II  No – Go to SC 6.3	Cat. III
SC 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	Cat. IV
Category of wetland based on Special Characteristics If you answered No for all types, enter "Not Applicable" on Summary Form	

