APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

Wetland A

SECTION I: BACKGROUN	D INFORMATION
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A. F	REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION	(JD): F	ebruary	15, 201	7.
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B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Seattle District, Ott, Dave (SW 10th Avenue Delineation), NWS-2016-975. Name of water being evaluated on this JD form: Wetland A C. PROJECT LOCATION AND BACKGROUND INFORMATION: State: Washington City: Battle Ground County: Clark Center coordinates of site (lat/long in degree decimal format): Lat: 45.7681 N, Long: -122.5500 W Universal Transverse Mercator: Name of nearest waterbody: Mill Creek. Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Lewis River. Name of watershed or Hydrologic Unit Code (HUC): 17080002. Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with this action and are recorded on a different JD form. List other JDs: _ D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: February 15, 2017. Field Determination. Date(s): November 7, 2016. SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required] B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required] 1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): 1 TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters, including isolated wetlands b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 500 linear feet 3 width (ft) and/or acres. Wetlands: 1.45 acres. c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual. and Pick List Elevation of established OHWM (if known): Unknown. Non-regulated waters/wetlands (check if applicable):³ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: _____.

SECTION III: CWA ANALYSIS

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¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

4.	If t	he aq	nd WETLANDS ADJACENT TO TNWS uatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.
	1.		N atify TNW: Imarize rationale supporting determination:
	2.		land adjacent to TNW marize rationale supporting conclusion that wetland is "adjacent":
В.	СН	ARA	CTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):
	(per	renni	d that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round al) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, ection III.D.4.
	is n sign trib pur	ot an nifica outar pose	d that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. If the waterbody RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a not nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical to the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary and wetlands, or both.
	wet	land	covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a not nexus exists is determined in Section III.C below.
	1.	Cha	racteristics of non-TNWs that flow directly or indirectly into TNW
		(i)	General Area Conditions: Watershed size: 1080 square miles Drainage area: 380 acres Average annual rainfall: 52.6 inches Average annual snowfall: 1.70 inches
		(ii)	Physical Characteristics: (a) Relationship with TNW: ☐ Tributary flows directly into TNW. ☐ Tributary flows through 3 tributaries before entering TNW. Project waters are Project waters cross or serve as state boundaries. Explain: ☐ Tributary flows directly into TNW. Project waters are Project waters are Project waters cross or serve as state boundaries. Explain: ☐ Tributary flows through 3 tributaries before entering TNW. Pick List river miles from RPW. 5-10 aerial (straight) miles from RPW. Pick List aerial (straight) miles from R
			(b) General Tributary Characteristics (check all that apply): Tributary is: Natural Artificial (man-made). Explain: Manipulated (man-altered). Explain: The offsite tributary is an excavated ditch across emergent
	wet	land	Tributary properties with respect to top of bank (estimate): Average width: 3 feet

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

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Average depth: <u>3</u> feet Average side slopes: Vertical (1:1 or less).
Primary tributary substrate composition (check all that apply): Silts Sands Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: silty clay loam (NRCS soil survey Clark County, Washington).
Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: stable banks due to clay content of soils and low gradient to the unnamed tributary. Presence of run/riffle/pool complexes. Explain: No riffle/pool complex due to shallow slope and substrate. Tributary geometry: Relatively straight Tributary gradient (approximate average slope): <2 %
(c) Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 2-5 Describe flow regime: seasonal. Other information on duration and volume: Tributary has persistent flow for 7 to 8 months of the year.
Surface flow is: Confined. Characteristics: well-defined, excavated, channel.
Subsurface flow: Yes . Explain findings: <u>presumed based on location of ditch abutting the wetland</u> . Dye (or other) test performed:
Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank changes in the character of soil destruction of terrestrial vegetation the presence of wrack line shelving vegetation matted down, bent, or absent leaf litter disturbed or washed away leaf litter disturbed or washed away sediment deposition water staining other (list): Discontinuous OHWM. Explain:
If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by:
(iii) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: water color is clear with moderate organic debris; general water quality is good; watershed has been extensively developed for agricultual and residential uses; downstream waters of Mill Creek are on the WA State 303(d) list for temperature and fecal choliform. Identify specific pollutants, if known: Fertilizers, herbicides.
(iv) Biological Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): herbaceous and forest cover with an average width of 150 feet. Wetland fringe. Characteristics: Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:

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⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

			_			
	(i)	Phy	sical Characteristics:			
	()		General Wetland Characteristics:			
		` '	Properties:			
			Wetland size: 1.42 onsite acres			
			Wetland type. Explain: slope p	alustrine emergent.		
					ed on WDOF Wetland Rating	System using a scale of wetland
cated	orie	s of I	I to IV with Category I being the hig		sed on Whole Wettand Rating	bystem using a scare of wettand
cates	SOTIE	3 01 1	Project wetlands cross or serve as s		n· NA	
			1 Toject wettailes cross of serve as s	tate boundaries. Explai	11. <u>11/1</u> .	
		(b)	General Flow Relationship with No	n TNW		
		(0)	Flow is: Ephemeral flow . Explain		at flow for 7 to 8 months of the	NA9T
			Flow is. Epitemeral now. Explain	1110utary has persister	it flow for 7 to 8 months of the	z year.
			Surface flow is: Overland sheetflo	XX/		
			Characteristics: The sheetflow		annal that is 3 fact wide by 3 fe	eat dean
			Characteristics. The sheethow	nows into the steam en	unier that is 3 feet wide by 3 fe	<u>cet deep</u> .
			Subsurface flow: Yes. Explain fine	lings: presumed based	elevation and provimity of the	ditch in relation to Wetland A
			Dye (or other) test performe		sievation and proximity of the	dien in relation to wettand 74.
			Dye (or other) test performe	d		
		(c)	Wetland Adjacency Determination	with Non-TNW:		
		(0)	Directly abutting	with iton-iitv.		
			☐ Not directly abutting			
			Discrete wetland hydrologi	c connection Evaluin:		
			Ecological connection. Ex	oloin:	·	
			Separated by berm/barrier.	Evnloin:		
			Separated by berni/barrier.	Explain		
		(d)	Proximity (Relationship) to TNW			
		(u)	Project wetlands are 20-25 river m	les from TNW		
			Project waters are 5-10 aerial (stra			
			Flow is from: Wetland to navigab			
			Estimate approximate location of v		0 year or greater floodplain	
			Estimate approximate location of v	cuand as within the 50	o-year or greater moodplain.	
	(ii)	Che	emical Characteristics:			
	(11)		racterize wetland system (e.g., water	color is clear brown	oil film on surface: water quali	tv. general watershed
		Ciia	characteristics; etc.). Explain: water			
			has been extensively developed for			
			State 303(d) list for temperature an		tiai uses, downstream waters o	or with creek are on the wit
		Iden	ntify specific pollutants, if known: For			
		Idei	itily specific politicalits, il known. <u>I v</u>	ertifizers, herbicides.		
	(iii)	Riol	logical Characteristics. Wetland s	unnorts (check all tha	t annly)•	
	(111)		Riparian buffer. Characteristics (ty			
		M	Vegetation type/percent cover. Ex			
			Habitat for:	Jiami. <u>nerodecods (ug id</u>	<u>114)/10070</u> .	
		ш	Federally Listed species. Expla	in findings:		
			Fish/spawn areas. Explain findi			
			Other environmentally-sensitive	ngs s cnecies Evnlain findi	nge.	
			Aquatic/wildlife diversity. Exp		iigs	
			Tiquatie/ withing diversity. Exp	iam imamgs		
3.	Cha	racte	eristics of all wetlands adjacent to	the tributary (if any)		
J.	Ciia		wetland(s) being considered in the c			
			proximately (1.42) acres in total are		cumulative analysis	
		, rbb	organiancity (1.72) acres in total are	oonig considered in the	Camarative analysis.	
		For	each wetland, specify the following			
		1 01		(in acres)	Directly abuts? (Y/N)	Size (in acres)
			Diedry abato. (1/11)	<u> </u>	<u> </u>	Size (iii deles)
			Y 1.42			
			_ 1.72			

Summarize overall biological, chemical and physical functions being performed: <u>The wetland directly abuts an excavated channel that receives sub-surface and surface flows, which drain directly into Mill Creek.</u>

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C.	SIGNIFICANT	NEXUS	DETERMINATION	

	1.	Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
	2.	Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
	3.	Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
D.		TERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL AT APPLY):
	1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft), or acres. Wetlands adjacent to TNWs: acres.
	2.	RPWs that flow directly or indirectly into TNWs. ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide rationale indicating that tributary flows perennial: ☐ Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: Tributary has persistent flow for 7 to 8 months of the year. Photograph taken July 11, 2016 shows water within drainage ditch. Provide estimates for jurisdictional waters in the review area (check all that apply): ☐ Tributary waters: 500 linear feet 3 width (ft).
	3.	Other non-wetland waters: acres. Identify type(s) of waters: Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
		Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters:
	4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
		Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: Wetland edge is contiguous with RPW with no intervening uplands.
		Provide acreage estimates for jurisdictional wetlands in the review area: <u>1.42</u> acres.
	5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.
		Provide acreage estimates for jurisdictional wetlands in the review area: acres.
	6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

⁸See Footnote # 3. Version 2-8-08

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			Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.
		Prov	vide estimates for jurisdictional wetlands in the review area: acres.
	7.	As a	boundments of jurisdictional waters. ⁹ a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).
E.	SUC	GRA CH W which from which Inters	TED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY WATERS (CHECK ALL THAT APPLY): 10 h are or could be used by interstate or foreign travelers for recreational or other purposes. which fish or shellfish are or could be taken and sold in interstate or foreign commerce. h are or could be used for industrial purposes by industries in interstate commerce. state isolated waters. Explain: r factors. Explain:
	Iden	ntify v	water body and summarize rationale supporting determination:
		Tribu Othe Id	estimates for jurisdictional waters in the review area (check all that apply): utary waters: linear feet width (ft). r non-wetland waters: acres. dentify type(s) of waters: ands: acres.
F.		If po Wet Revi	URISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): Detential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers cland Delineation Manual and/or appropriate Regional Supplements. Detential wetlands were assessed within the review area did not meet the criteria in the 1987 Corps of Engineers cland Delineation Manual and/or appropriate Regional Supplements. Detential wetlands were assessed within the review area did not meet the criteria in the 1987 Corps of Engineers cland Delineation Manual and/or appropriate Regional Supplements. Detential wetlands were assessed within the review area did not meet the criteria in the 1987 Corps of Engineers cland Delineation Manual and/or appropriate Regional Supplements. Detential wetlands were assessed within the review area did not meet the criteria in the 1987 Corps of Engineers cland Delineation Manual and/or appropriate Regional Supplements. Detential wetlands were assessed within the review area did not meet the criteria in the 1987 Corps of Engineers cland Delineation Manual and/or appropriate Regional Supplements. Detential wetlands were assessed within the review area did not meet the criteria in the 1987 Corps of Engineers cland Delineation Manual and/or appropriate Regional Supplements. Delineation Manual And/or appropriate Regional Suppleme
	facto judg	ors (i gment Non Lake Othe	acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR .e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional t (check all that apply): 1-wetland waters (i.e., rivers, streams): linear feet width (ft). 1-wetland waters: acres. 1-wetland waters: acres. List type of aquatic resource:
	a fin	nding Non Lake Othe	acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such is required for jurisdiction (check all that apply): n-wetland waters (i.e., rivers, streams): linear feet width (ft). es/ponds: acres. er non-wetland waters: acres. List type of aquatic resource: ellands: acres.
SE	CTIO	N IV	7: DATA SOURCES.
A.	and	reque Map	TING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked ested, appropriately reference sources below): os, plans, plots or plat submitted by or on behalf of the applicant/consultant: Vicinity map, Wetland Delineation map, USGS hic and soils map, USFWS wetland map, Clark County wetland map, wetland hydrographic map, wetland rating land use map.

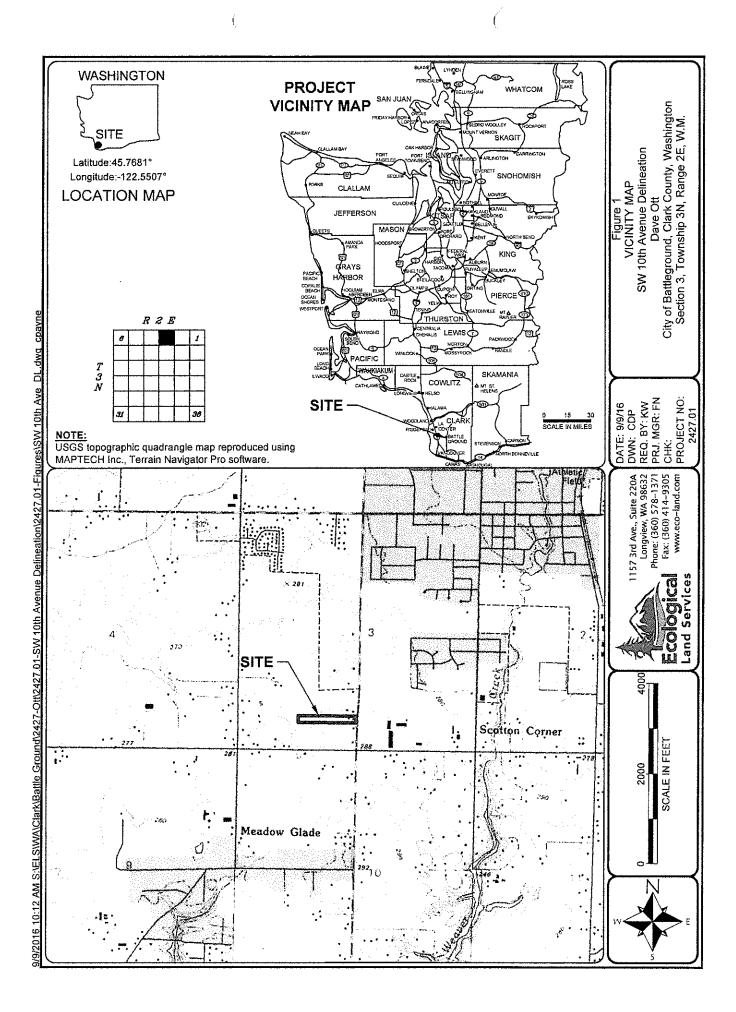
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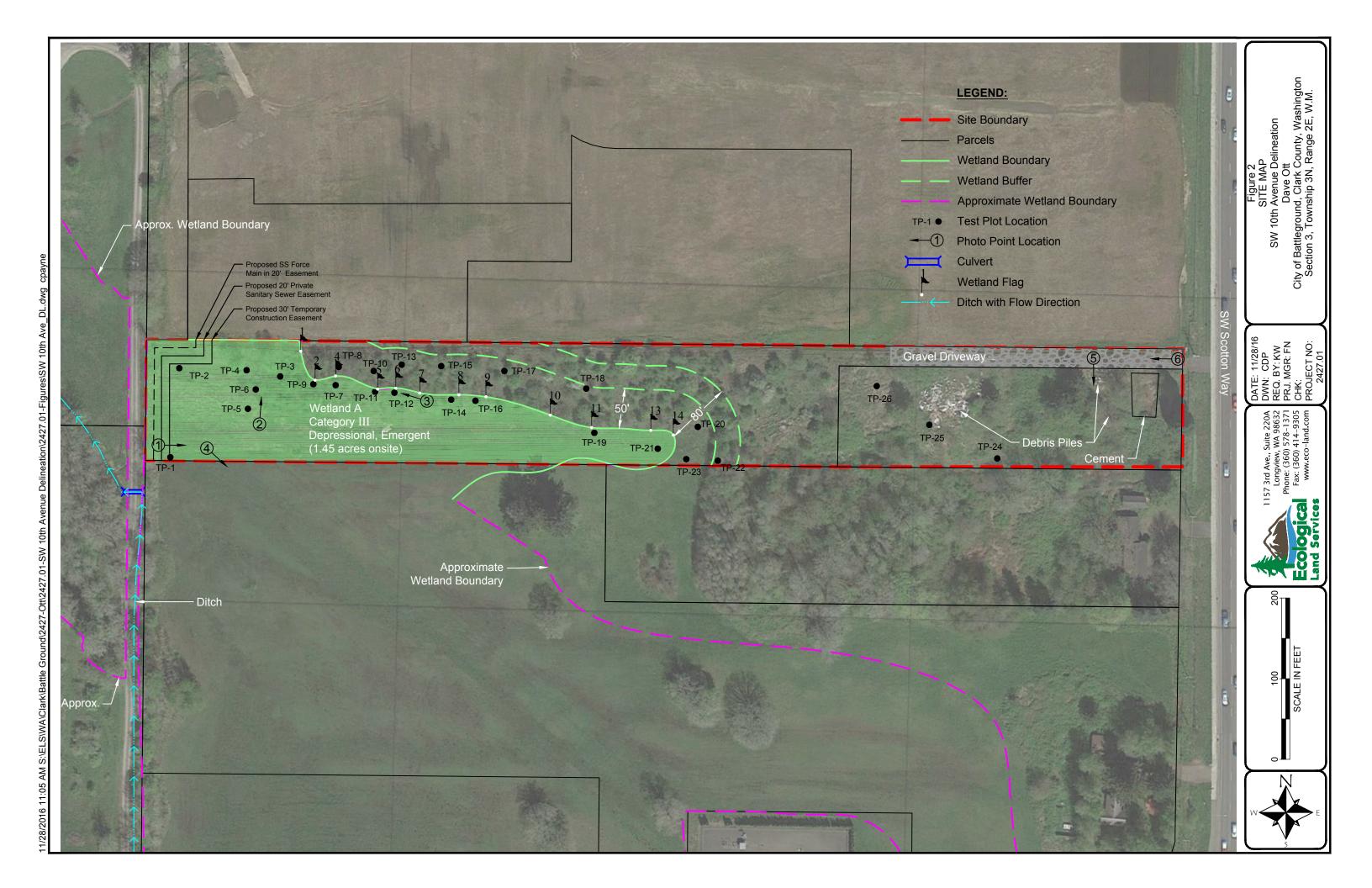
⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

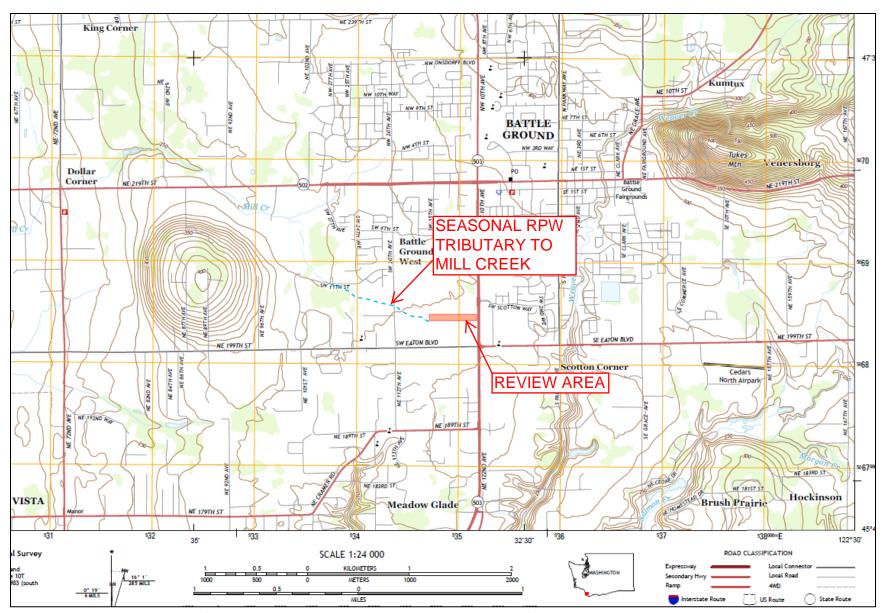
\boxtimes	Data sheets prepared/submitted by or on behalf of the applicant/consultant.
	☐ Office concurs with data sheets/delineation report.
	Office does not concur with data sheets/delineation report.
	Data sheets prepared by the Corps:
	Corps navigable waters' study:
	U.S. Geological Survey Hydrologic Atlas:
	USGS NHD data.
	USGS 8 and 12 digit HUC maps.
	U.S. Geological Survey map(s). Cite scale & quad name:
	USDA Natural Resources Conservation Service Soil Survey. Citation:
	National wetlands inventory map(s). Cite name:
\boxtimes	State/Local wetland inventory map(s): <u>Clark County GIS</u>
	FEMA/FIRM maps:
	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
\boxtimes	Photographs: Aerial (Name & Date): Google Earth,
	or \boxtimes Other (Name & Date): <u>11 July 2016</u> .
	Previous determination(s). File no. and date of response letter:
	Applicable/supporting case law:
	Applicable/supporting scientific literature:
	Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: Wetland A extends offsite to the south and east, abutting a drainage ditch adjacent to a maintenance road that forms the western wetland boundary. Water enters this ditch from the offsite portion of Wetland A then flows under the maintenance road through two 12-inch diameter culverts. The culverts, located approximately 40 feet south of the southwest corner of the review area, allow water to drain northwesterly from Wetland A and into an excavated channel that continues to flow for approximately 1.8 mile where it merges with Mill Creek, a perennial water. Mill Creek flows in a general southwesterly direction for approximately 5.0 miles and merges with Salmon Creek, which flows into Lake River, a tributary of the Columbia River, a TNW. The presence of water within the drainage ditch and channel during July confirms water would be present within the wetland at drainage channel for a minimum of three months and provide, at least, a seasonal connection to permanent waters and TNWs. The subject tributary has been documented to have a seasonal flow, originating from the wetland and persisteing form more than 3 continuous months of the year. The subject wetland extends to edge of the tributary with no intervening uplands. Based on these findings, Wetland A is a regulated water of the U.S.

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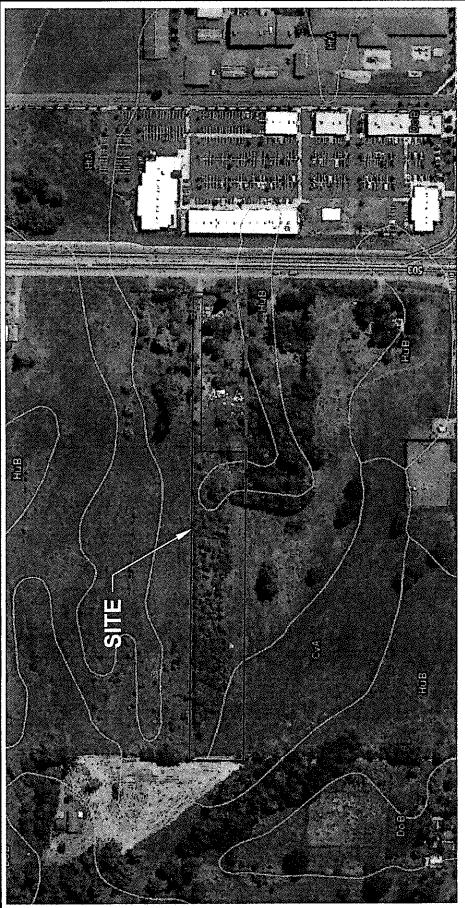






Source: USGS Topographic Map (Battle Ground Quadrangle; Washington, Clark County)

Figure 3



LEGEND:

Cove silty clay loam, 0 to 3 percent slopes. Hydric. CVA DoB HuB

Dollar loam, 0 to 5 percent slopes. Not hydric.

Hockinson loam, moderately well drained, 0 to 8 percent slopes. Not hydric.

NOTE(S):

Map provided on-line by NRCS at web address: http://websoilsurvey.nrcs.usda.gov/app/

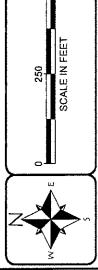
SW 10th Avenue Delineation SOIL SURVEY MAP Dave Ott

DATE: 9/9/16 DWN: CDP REQ. BY: KW PRJ. MGR: FN CHK:

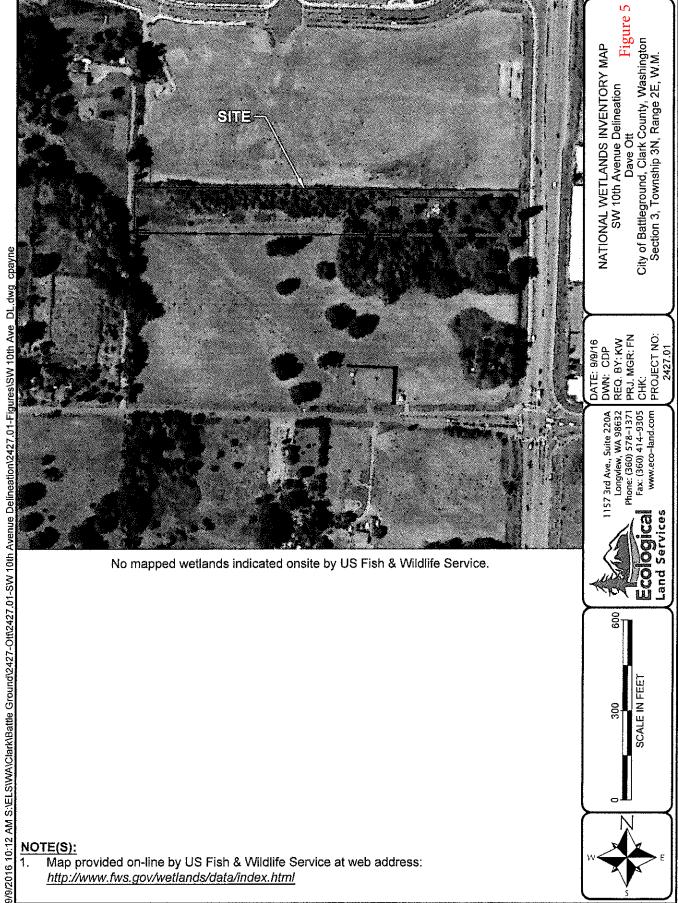
PROJECT NO: 2427.01

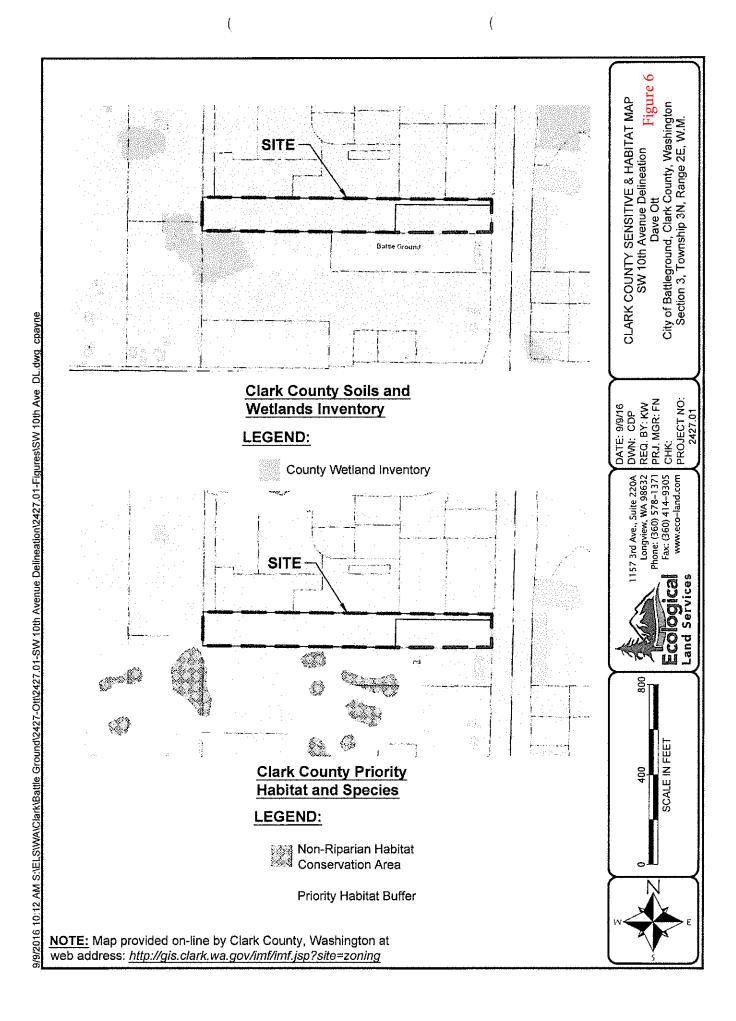
Figure 4

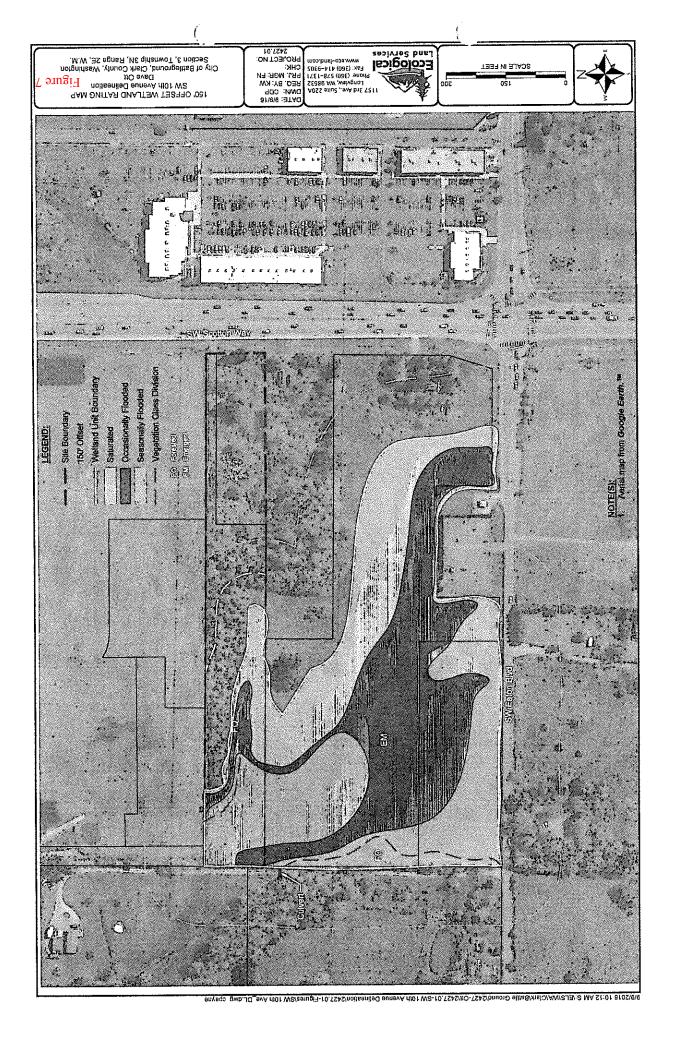
City of Battleground, Clark County, Washington Section 3, Township 3N, Range 2E, W.M.













Source: Google Earth (7/23/2016): Showing review area (red) and photo point location and direction (yellow).

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Photo 1: Looking southeast from offsite maintenance road showing west portion of emergent Wetland A.



Photo 2: Looking southt from offsite maintenance road showing water level adjacent to offsite portion of Wetland A.

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Photo 3: Looking westerly from offsite maintenance road outlet drainage channel from Wetland A and shotgun culverts.

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