## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling Date: 29-Aug-15				
Applica	nt/Owner: Alaska Energy Authority	Sampling Point: SW15_T344_05					
	gator(s): JGK	e, hummocks etc.): Shoulder slope					
Local re	elief (concave, convex, none): hummocky		Slope: 5.2	% / 3.0	) ° Elevation:		
Subreg	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84		
_	p Unit Name:				NWI classification: Upland		
Are Vo	egetation , Soil , or Hydrology  MARY OF FINDINGS - Attach site map show the Hydrophytic Vegetation Present? Yes No	significant naturally p wing sar	tly disturbed? problematic? mpling point	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.)  Iormal Circumstances present? Yes No Oeded, explain any answers in Remarks.)		
	Hydric Soil Present? Yes No		Is the Sampled Area within a Wetland? Yes ○ No ●				
Rema	Wetland Hydrology Present? Yes   No C	W	Willing a Welland?				
	TATION -Use scientific names of plants. Li	Absolute	e Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species		
1.	e Stratum	% Cove	r Species?	Status	That are OBL, FACW, or FAC:3 (A)		
2.		-			Total Number of Dominant		
3.			. 📙		Species Across All Strata:3 (B)		
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)		
5.							
,	Total Cover	:			Prevalence Index worksheet:  Total % Cover of: Multiply by:		
Sapl	ling/Shrub Stratum 50% of Total Cover:	0 209	= % of Total Cover:	: 0	001.0		
-					OBL Species 0 x 1 = 0 FACW Species 41 x 2 = 82		
	Rhododendron tomentosum	40		FACW	FAC Species 95 x 3 = 285		
	Vaccinium uliginosum	25	. 🔻	FAC	FACU Species 1 x 4 = 4		
	Vaccinium vitis-idaea	15 20	. 📙	FAC FAC	UPL Species 0 x 5 = 0		
	Betula nana Spiraea stevenii	1		FACU			
'	F		·	FAC	Column Totals: <u>137</u> (A) <u>371</u> (B)		
7.	Empetrum nigrum	0	·	TAC	Prevalence Index = B/A = 2.708		
0					Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
		0			✓ Prevalence Index is ≤3.0		
	Total Cover  50% of Total Cover:	: 21.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)				
1.	Carex bigelowii	30	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)		
	Rubus chamaemorus			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.		0			be present, unless disturbed or problematic.		
		0	. 📃		Plot size (radius, or length x width)		
					% Cover of Wetland Bryophytes 2		
					(Where applicable)		
					% Bare Ground5		
					Total Cover of Bryophytes35		
		0					
10.	Total Cover		. ⊔		Hydrophytic		
	<b>Total Cover</b> 50% of Total Cover:	6.2	Vegetation Present? Yes ● No ○				
_				<u> </u>	1		
Rema	arks: 5% Sphagnum10% lichen cover						

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SOIL Sampling Point: SW15\_T344\_05

	on: (Describe to	the depth n	eeded to docu	ment the inc		firm the abs		ators)			
Depth Color (moist)		oist)		Color (moist)		%			Texture	Remarks	
0-1		,,,			<u> </u>		-71	Loc <sup>2</sup>	Hemic Organics		
1-4	7.5YR	2.5/3	100						Loamy Sand		
4-11	2.5Y	3/2	85 -	10YR	3/4	15		PL	Sandy Clay Loam		
11-20	2.5Y	3/2	95	10YR	3/4	5	C	PL	Sandy Clay Loam	Sand inclusions (fine to medium)	
	2.51	<u> </u>		TUTK				- FL	Salidy Clay Loalii	Sand inclusions (fine to medium)	
Type: C=Cor	 ncentration. D	=Depletion	. RM=Reduc	ed Matrix	2 Location	: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix		
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix <sup>2</sup> Location: PL=Pore Lining. RC=Root Channel. M=Matrix  Hydric Soil Indicators: Indicators for Problematic Hydric Soils:											
Hydric Soil In							4	Jiis. 	Alaska Clayed Without H	us FV or Padder	
	Histel (A1)				Alaska Color Change (TA4)  Alaska Alpine swales (TA5)						
Histic Epip	Sulfide (A4)				ka Redox W		•		Other (Explain in Remarks)		
	Surface (A4)	1			ta recoox W	101 2.51 1	iuc		<b>、</b>	,	
Alaska Gle	-	,		<sup>3</sup> One ir	ndicator of h	nydrophyt	ic vegetatio	n, one pri	mary indicator of wetland h	ydrology,	
Alaska Red				and an	appropriate	: landscap	e position r	must be pr	esent		
	yed Pores (A1	5)		4 Give d	etails of co	lor change	e in Remark	(S			
Restrictive Laye	er (if present):				-						
Type: sand	dy clay loam			l l					<b>Hydric Soil Present</b>	? Yes ○ No •	
Depth (inch	nes): 4										
HYDROLO											
Wetland Hydr	rology Indica	itors:							Secondary Indi	cators (two or more are required)	
Primary Indicat		is sufficien	t)							ned Leaves (B9)	
Surface W		Inundation Visible on Aerial Imagery (B7)					☐ Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)						hizospheres along Living Roots (C3)	
Saturation	. ,			Marl Deposits (B15)					☐ Presence of Reduced Iron (C4) ☐ Salt Deposits (C5)		
Water Mai				☐ Hydrogen Sulfide Odor (C1)							
Drift Depo	Deposits (B2)			Dry-Season Water Table (C2)						Stressed Plants (D1) ic Position (D2)	
	or Crust (B4)			Under (Explain in Remarks)					✓ Shallow Ac	` '	
☐ Iron Depo								graphic Relief (D4)			
	oil Cracks (B6)								✓ FAC-neutra	, , ,	
Field Observa		'							The neutro		
Surface Water		Yes C	No ●	De	pth (inches	s):					
Water Table P			No •			•		Wetla	nd Hydrology Presen	t? Yes • No O	
Saturation Pre				DE	epth (inches	.):		- Tota	na rryarology r resen	103 0 110 0	
Saturation Present? (includes capillary fringe) Yes No •				Depth (inches):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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