WETLAND DETERMINATION DATA FORM - Alaska Region

roject	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Aug-15			
pplica	int/Owner: Alaska Energy Authority				Sampling Point: SW15_T309_05			
vesti	gator(s): JGK		Landform (hil	lside, terrac	e, hummocks etc.): Bench			
	elief (concave, convex, none): undulating		Slope: 0.0	% / 0.0	° Elevation:			
uhrec	ion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84			
	p Unit Name:	-						
	•		o V	● No ○	NWI classification: Upland			
Are V Are V	egetation , Soil , or Hydrology , or Hydrology	significantly naturally pr wing san	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No)						
	Hydric Soil Present? Yes O No •)	Is the Sampled Area					
	Wetland Hydrology Present? Yes O No •)	W	ithin a W	Vetland? Yes ○ No •			
Rema			<u>"</u>					
EGE	ETATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.	Dominance Test worksheet:			
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)			
	Picea mariana			FACW	Total Number of Dominant			
2.		0			Species Across All Strata: 4 (B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC:			
5.					Prevalence Index worksheet:			
	Total Cover		(= , , , ,		Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0.05 20%	of Total Cover	:0.02	OBL Species x 1 =			
1.	Vaccinium uliginosum	20	✓	FAC	FACW Species 1.1 x 2 = 2.200			
2.	Rhododendron groenlandicum	15	✓	FAC	FAC Species 60 x 3 = 180			
3.	Arctostaphylos uva-ursi			UPL	FACU Species <u>5</u> x 4 = <u>20</u>			
4.	Empetrum nigrum	5		FAC	UPL Species <u>7</u> x 5 = <u>35</u>			
5.	Vaccinium vitis-idaea	3		FAC	Column Totals: <u>73.1</u> (A) <u>237.2</u> (B)			
6.	Betula glandulosa	2		FAC	Prevalence Index = B/A = 3.245			
7.	Picea mariana			FACW				
	Picea glauca			FACU	Hydrophytic Vegetation Indicators:			
9.					✓ Dominance Test is > 50%			
10.	Total Cover				Prevalence Index is ≤3.0			
Her	b Stratum 50% of Total Cover:		6 of Total Cove	r: 10.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
	Cornus suecica	10	✓	FAC	Problematic Hydrophytic Vegetation (Explain)			
	Festuca altaica		<u></u>	FAC	¹ Indicators of hydric soil and wetland hydrology must			
	Geocaulon lividum	2		FACU	be present, unless disturbed or problematic.			
	Chamaenerion angustifolium			FACU	District of all and booth with the			
5.		-			Plot size (radius, or length x width) 10m			
		_			% Cover of Wetland Bryophytes (Where applicable)			
					% Bare Ground1			
					Total Cover of Bryophytes 10			
		0						
40		0			Hydrophytic			
10.	Tatal Carrain	19			Vegetation			
10.	Total Cover 50% of Total Cover:				Present? Yes No			

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SOIL Sampling Point: SW15_T309_05

		the depth n	eeded to docu	ment the indicator or co	nfirm the ab		cators)				
Depth (inches)	Color (mo	ist)		Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks		
0-1	Color (IIIO	isty		color (moist)		1700	200	Sapric Organics			
1-3	7.5YR	4/6	100					Loamy Sand			
		<u> </u>		-	-			· -			
3-4	5YR	3/4	100					Coarse Loamy Sand			
4-12	7.5YR	5/6						Coarse Loamy Sand	Gravel and cobbles throughout		
¹Type: C=Con	centration. D=	-Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for P	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4)4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)	Underlying Layer				
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y I	Hue		Other (Explain in Remark	rs)		
Thick Dark	Surface (A12))		3 One indicator of	budrophu	ic vogotatio	n one prin	mary indicator of wetland h	wdralogy		
Alaska Gle				and an appropria	te landscar	ne position i	must be pro	esent	lydi ology,		
Alaska Red				⁴ Give details of c	olor chang	o in Domark	, . , c				
☐ Alaska Gle	yed Pores (A15	5)		- Give details of C	olor chang	e iii Keiliaik	.				
Restrictive Laye	r (if present):										
Type:	,							Hydric Soil Present	? Yes ○ No •		
Depth (inch	es):										
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat		s sufficien	t)					Water Stai	ned Leaves (B9)		
Surface Water (A1)				Inundation V		_		☐ Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Veg		ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
Saturation (A3)				☐ Marl Deposit	` '			_	of Reduced Iron (C4)		
	Water Marks (B1) Hydrogen Sulfi							Salt Depos			
☐ Sediment Deposits (B2) ☐ Dry-Season Water Tab						. ,		_	Stressed Plants (D1) ic Position (D2)		
	or Crust (B4)			U Other (Expla	ın ın kema	rks)			juitard (D3)		
Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)							✓ FAC-neutra			
Field Observa								The neutro			
Surface Water		Yes C	No ●	Depth (inche	es):						
Water Table P			No •		•		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre		_	_	Depth (inche	25):		TT CCIA	na riyarology r resen	t. 163 © 110 ©		
(includes capil		Yes C	No 💿	Depth (inche	es):						
Describe Record	ded Data (stre	am gauge	, monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											

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