WETLAND DETERMINATION DATA FORM - Alaska Region

roject/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 27-Jun-12			
pplicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T22_07			
vestigator(s): JGK		Landform (hill	form (hillside, terrace, hummocks etc.): Hillside				
ocal relief (concave, convex, none):		Slope:	% / 28.2	2 ° Elevation: 664			
ubregion : Interior Alaska Mountains	Lat.:	 62.75977134 <i>°</i>		Long.: -147.726112433 Datum: NAD83			
bil Map Unit Name:	_	NWI classification: Upland					
re climatic/hydrologic conditions on the site typical for this tii	me of year	? Yes	No ○	(If no, explain in Remarks.)			
Are Vegetation \square , Soil \square , or Hydrology \square s	significantly	y disturbed?	Are "N	lormal Circumstances" present? Yes ● No ○			
Are Vegetation $\ \square$,Soil $\ \square$,or Hydrology $\ \square$,	naturally pr	oblematic?	(If nee	eded, explain any answers in Remarks.)			
UMMARY OF FINDINGS - Attach site map show	wing sam	nolina point	locations	s. transects, important features, etc.			
Hydrophytic Vegetation Present? Yes No		, , , , , , , , , , , , , , , , , , ,		,,,,,			
Hydric Soil Present? Yes No •		Is the Sampled Area					
Wetland Hydrology Present? Yes No •		within a Wetland? Yes ○ No •					
Remarks:	/	ı,					
EGETATION -Use scientific names of plants. Li	•		•	Dominance Test worksheet:			
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species			
1. Betula neoalaskana	35	V	FACU	That are OBL, FACW, or FAC: (A)			
2. Picea glauca	2		FACU	Total Number of Dominant Species Across All Strata: 3 (B)			
3.				Percent of dominant Species			
4.	0			That Are OBL, FACW, or FAC: 33.3% (A/B)			
5	0			Prevalence Index worksheet:			
Total Cover:				Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover:	18.5 20%	of Total Cover	7.4	OBL Species x 1 =			
1. Rosa acicularis	5		FACU	FACW Species 0 x 2 = 0			
Vaccinium vitis-idaea	40	✓	FAC	FAC Species <u>43</u> x 3 = <u>129</u>			
3. Linnaea borealis			FACU	FACU Species <u>58</u> x 4 = <u>232</u>			
4. Alnus viridis	2		FAC	UPL Species			
5. Rhododendron groenlandicum	_1_		FAC	Column Totals:101 (A)361 (B)			
6	0						
7	0			Prevalence Index = B/A =3.574_			
8	0			Hydrophytic Vegetation Indicators:			
9				☐ Dominance Test is > 50%			
10.				☐ Prevalence Index is ≤3.0			
Total Cover:		6 of Total Cover	:10	 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 			
Cornus canadensis	_10_	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2. Chamaenerion angustifolium	_		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3. Geocaulon lividum	2		FACU	be present, unless disturbed or problematic.			
4				Plot size (radius, or length x width)			
5	•			% Cover of Wetland Bryophytes			
6	_			(Where applicable)			
7				% Bare Ground			
8.				Total Cover of Bryophytes			
9	0						
10	14		Hydrophytic Vegetation				
Total Cover:							

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SOIL Sampling Point: SW12_T22_07

		the depth no	eeded to docu	ment the indicator or co	nfirm the ab		ators)				
Depth (inches)				Color (moist) %		Type 1 Loc 2		- Texture	Remarks		
0-1	Color (IIIO	.50,	100	color (moise)		1700	200	Fibric Organics			
1-2			80					Hemic Organics	20% roots		
2-3		 5/2	100		-			Fine Sandy Loam			
									bits of charcoal in upper part of horizon		
3-6	7.5YR	3/3	90					Sandy Loam	10% sub ang grvl		
6-17	2.5Y	4/4	80					Sandy Loam	10% coarse sand-sub ang cobble		
¹Type: C=Con	ncentration. D=	:Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil Ir	ndicators:			Indicators for Pr	oblemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4 4)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remark	(S)		
☐ Thick Dark	Surface (A12)			30	b			and the least of the state of the	of the		
Alaska Gle				and an appropriat				nary indicator of wetland hesent	iyarology,		
Alaska Red						·					
	yed Pores (A15	5)		⁴ Give details of co	olor chang	е ін кешагк	is				
Restrictive Laye	er (if present):								0 0		
Type:	\							Hydric Soil Present	? Yes ○ No •		
Depth (inch	ies):										
HYDROLO	GY										
Wetland Hydr	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one i	s sufficien	t)					Water Stai	ned Leaves (B9)		
Surface W	☐ Surface Water (A1) ☐ Inundation Visible on Aerial Imagery (B						ry (B7)				
	er Table (A2)			Sparsely Veg		ncave Surfac	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	` '			Marl Deposits	, ,				of Reduced Iron (C4)		
Water Mai				☐ Hydrogen Su				Salt Depos			
Drift Depo	Deposits (B2)			☐ Dry-Season \☐ Other (Explai					Stressed Plants (D1) ic Position (D2)		
	or Crust (B4)			Uther (Explai	n in kema	rks)			quitard (D3)		
☐ Iron Depo									graphic Relief (D4)		
	oil Cracks (B6)								al Test (D5)		
Field Observa											
Surface Water	Present?	Yes C	No ●	Depth (inche	s):						
Water Table P	resent?	Yes C	No ●	Depth (inche	·s)·		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre		_	No •	, ,	,			, 5,			
(includes capil				Depth (inche							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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