WETLAND DETERMINATION DATA FORM - Alaska Region

roject	/Site: Susitna-Watana Hydroelectric Project	Вс	prough/City:	Matanusk	ca-Susitna Borough Sampling Date: 01-Aug-13
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T141_08
nvesti	gator(s): BAB	L	andform (hill	side, terrac	e, hummocks etc.): Flat
-	elief (concave, convex, none): concave		Slope: 0.0	% / 0.0	
	ion : Interior Alaska Mountains		· 3.220472652		Long.: -148.263772856 Datum: WGS84
_			13.220472032		
	p Unit Name:			No ○	NWI classification: Upland
Are V Are V		significantly naturally pro wing sam	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No ded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydric Soil Present? Yes ○ No ④		Is	the Sam	pled Area
			wi	thin a W	etland? Yes ○ No •
Rem					
	TATION -Use scientific names of plants. L	Absolute	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species
1.	e Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC: 4 (A)
2.		0			Total Number of Dominant
3.					Species Across All Strata: 6 (B)
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)
5.		0			
0.	Total Cover				Prevalence Index worksheet:
San	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:
Зар					OBL Species 0 x 1 = 0
	Spiraea stevenii	0.1		FACU	FAC Species 15.1 x 2 = 30.20
	Salix pulchra	15	✓	FACW	FAC Species 19.1 x 3 = 51.30 FACU Species 19.1 x 4 = 76.40
3.	Betula nana	<u>5</u> 5	✓	FAC	
4.	Vaccinium uliginosum		✓	FAC	
5.	Empetrum nigrum			FAC	Column Totals: <u>53.3</u> (A) <u>167.9</u> (B)
6.	Vaccinium vitis-idaea			FAC	Prevalence Index = B/A = 3.150
7.		0			
8. 9.		0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
10.					Prevalence Index is ≤ 3.0
	Total Cover 50% of Total Cover:	31.1	of Total Cover	: 6.22	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Artemisia norvegica	2		FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Viola canadensis	1		FAC	Indicators of hydric soil and wetland hydrology must
3.	Solidago multiradiata	10	<u> </u>	FACU	be present, unless disturbed or problematic.
4.	Gentiana glauca	0.1		FAC	
5.	Anemone narcissiflora	-		FACU	Plot size (radius, or length x width) 10m
6.	Antennaria friesiana	2		UPL	% Cover of Wetland Bryophytes (Where applicable)
7.	Carex atrofusca			FACW	% Bare Ground
8.	Sibbaldia procumbens	4	✓	FACU	Total Cover of Bryophytes5
9.	Rubus arcticus (IAM)	2		FACU	
10.		0			Hydrophytic
	Total Cover				Vegetation Present? Yes ● No ○
	50% of Total Cover:			4.44	

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SOIL Sampling Point: SW13_T141_08

O-3		Matrix	leeded to docum	ent the indicator or c	onfirm the abserted on the control of the control o		itors)		
0-3	Color (m	oist)	<u></u> %	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks
0.5			100					Fibric Organics	Fibric Organics
3-4			100					Hemic Organics	Hemic Organics
4-14	7.5YR	2.5/3	100					Loamy Sand	
								Loamy Sand	
14-18	10YR	3/3						Loanly Sand	-
¹Type: C=Con	ncentration. D	=Depletion	n. RM=Reduce	d Matrix ² Location	on: PL=Pore l	_ining. RC=	=Root Cha	nnel. M=Matrix	
Hydric Soil In	ndicators:			Indicators for P	roblematic I	Hydric Soi	ils: ³		
Histosol or	Histel (A1)			Alaska Color (Change (TA4)	ı		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipe				Alaska Alpine	swales (TA5)			Underlying Layer	
	Sulfide (A4)			Alaska Redox	With 2.5Y Hu	e		Other (Explain in Remark	rs)
Thick Dark	Surface (A12	2)							
Alaska Gley	yed (A13)			One indicator of and an appropria				nary indicator of wetland h	ydrology,
Alaska Red	lox (A14)				·	•		esent	
Alaska Gle	yed Pores (A	L5)		⁴ Give details of	color change i	n Remarks	5		
Restrictive Laye	er (if present)	:							
Type:								Hydric Soil Present	? Yes ○ No •
Depth (inch	nes):								
HYDROLO									
Wetland Hydr	rology Indic								cators (two or more are required)
Wetland Hydr Primary Indicat	rology Indic tors (any one		nt)					Water Stai	ned Leaves (B9)
Primary Indicat Surface W	r ology Indic tors (any one /ater (A1)		nt)		Visible on Aeri			Water Stai Drainage F	ned Leaves (B9) Patterns (B10)
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