WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroel	ectric Project	Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	25-Aug-15	
Applica	nt/Owner: Alaska Energy Auth	ority				Sampling Point: SI	W15_T325_02	
nvestig	gator(s): JGK	,	L	_andform (hill	side, terrac	e, hummocks etc.): Bench		
Local re	elief (concave, convex, none):	hummocky		Slope: 3.5	% / 2.0	° Elevation:		
Subrea	ion: Cook Inlet Mountains	,	Lat.:			Long.: D	atum: WGS84	
_	p Unit Name:					NWI classification: PFO4E		
				. Vaa	No ○		3	
	natic/hydrologic conditions on the egetation $\ \square$, Soil $\ \square$, $\ c$			disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes	No ○	
		, ,, _	naturally pro			ormal Circumstances" present? Yes ded, explain any answers in Remarks.)		
					`	,		
SUMN	IIARY OF FINDINGS - Atta	ch site map shov	ving sam	pling point	locations	s, transects, important features,	etc.	
	Hydrophytic Vegetation Present?	Yes ● No ○)					
	Hydric Soil Present?	Yes ⊙ No C)			npled Area		
	Wetland Hydrology Present?	Yes ● No ○)	wi	ithin a W	etland? Yes No		
Rema				· ·				
VEGE	TATION - Use scientific na	mes of plants. Li	st all spec	cies in the	plot.			
		·	Abaalata	Daminant	T. dianta.	Dominance Test worksheet:		
Tree	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	Picea mariana		35	✓	FACW	That are OBL, FACW, or FAC:	4(A)	
2.			0			Total Number of Dominant Species Across All Strata:	5 (B)	
3.			0			Percent of dominant Species		
4.			0				80.0% (A/B)	
5.			0			Prevalence Index worksheet:		
		Total Cover:	35			Total % Cover of: Multiply	by:	
Sapl	ling/Shrub Stratum 50	% of Total Cover:1	.7.5 20% d	of Total Cover:	7	OBL Species 0 x 1 =	0	
1.	Vaccinium uliginosum		10	✓	FAC	FACW Species 54 x 2 =	108	
	Spiraea stevenii		10	✓	FACU	FAC Species 77 x 3 =	231	
	Picea mariana		10	<u> </u>	FACW	FACU Species 12 x 4 =	48	
4.	Empetrum nigrum		7		FAC	UPL Species 0 x 5 =	0	
5.	Vaccinium vitis-idaea		5		FAC	Column Totals: 143 (A)	387 (B)	
6.	Betula glandulosa		3		FAC			
7.	Salix pulchra		3		FACW	Prevalence Index = B/A =	2.706	
8.	Dasiphora fruticosa		2		FAC	Hydrophytic Vegetation Indicators:		
9.	Rhododendron groenlandicum		2		FAC	✓ Dominance Test is > 50%		
10.	Salix barclayi		1		FAC	✓ Prevalence Index is ≤3.0		
Herl	b Stratum 50	Total Cover:		of Total Cover	: 10.6	Morphological Adaptations (Provide Remarks or on a separate sheet)	supporting data in	
	Corey bigologgii		35	✓	FAC	Problematic Hydrophytic Vegetation	(Explain)	
1	Carriestum anyones		10		FAC	¹ Indicators of hydric soil and wetland hydr	` ' '	
1	Dubus sharessans		5		FACW	be present, unless disturbed or problemati		
4.			2		FAC	Blat of a Codf or a leastly state.		
5.	Outlette and a second a				FACU	Plot size (radius, or length x width)	_10m	
6.	Defendant Control				FACW	% Cover of Wetland Bryophytes (Where applicable)		
7.	Cornus canadensis		1		FACU	% Bare Ground	_25	
8.			0			Total Cover of Bryophytes	75	
9.			0					
10.			0			Hydrophytic		
		Total Cover:		c=		Vegetation Present? Yes • No •		
	50	% of Total Cover: 2	<u>27.5</u> 20% (of Total Cover:	11	Present? Yes ♥ No ○		
Rema	arks: 1% salret							

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SOIL Sampling Point: SW15_T325_02

Profile Description	on: (Describe to t	the depth nee Matrix	eded to doc	ument the ind		ifirm the ab lox Featu		cators)		
Depth (inches)	Color (mo		 %	Color (m		%	Type ¹	Loc ²	Texture	Remarks
0-2	COIOI (III.C	ist <i>j</i>	-70	COIG. (Ulacy	_/_	Турс	LUC	Peat	
2-7									Mucky Peat	
7-12					-				Muck	/some mineral content
	10\/D	2/2	100							w/some mineral content
12-17	10YR	3/3	100						Sandy Loam	Organic inclusions
17-20	5Y	4/2	80	7.5YR	4/6	20	C	PL	Sandy Clay Loam	
								-		
¹Type: C=Con	centration. D=	Depletion.	RM=Redu						annel. M=Matrix	
Hydric Soil In	ndicators:						c Hydric So	oils:³ _	_	
Histosol or	Histel (A1)				a Color Ch				Alaska Gleyed Without H	ue 5Y or Redder
✓ Histic Epipe	edon (A2)				a Alpine sv	-			Underlying Layer	
	Sulfide (A4)			∐ Alask	a Redox W	/ith 2.5Y I	Hue		Other (Explain in Remark	(5)
	Surface (A12)			3 One in	dicator of	hvdrophvl	ric vegetatio	n, one pri	mary indicator of wetland h	vdrology.
Alaska Gley							pe position i			,, a. o. o. g, ,
✓ Alaska Red	lox (A14) yed Pores (A15	5)		4 Give d	etails of co	lor chang	e in Remark	(S		
Restrictive Laye	-	.,								
Type: sand	,								Hydric Soil Present	? Yes • No O
Depth (inch	, ,								nyane son rresene	
Remarks:	· ·									
HYDROLO	GY									
HYDROLOG Wetland Hydr		tors:							_Secondary Indi	cators (two or more are required)
	ology Indica)							cators (two or more are required) ned Leaves (B9)
Wetland Hydr	rology Indica tors (any one i)	☐ Inu	indation Vi	sible on A	erial Image	ry (B7)	Water Stair	
Wetland Hydr	rology Indica tors (any one i ater (A1))				erial Image ncave Surfac		Water Stain Drainage P	ned Leaves (B9)
Wetland Hydr Primary Indicat Surface W ✓ High Wate ✓ Saturation	rology Indicators (any one is dater (A1) er Table (A2))	☐ Spa		etated Cor	-		Water Stail Drainage F Oxidized R Presence o	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
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