WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 09-Jul-13								
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T123_08								
Investigator(s): WAD, BAB Landform (hillside, terrace, hummocks etc.): Hillside													
Local relief (concave, convex, none): hummocky Slope: 17.6 % / 10.0 ° Elevation: 1036													
	ion: Southcentral Alaska		62.75545001		Long.: -149.406677008 Datum: WGS84								
		Lat	02.75545001										
Soil Map Unit Name:													
	Are Climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (If no, explain in Remarks.) Are "Normal Circumstances" present? Yes No (If no, explain in Remarks.)												
Are V	egetation . , Soil . , or Hydrology .	naturally pr	oblematic?	(If nee	ded, explain any answers in Remarks.)								
SUMN	MARY OF FINDINGS - Attach site map sho	wing sam	nolina point	locations	s, transects, important features, etc.								
			, , , , , , , , , , , , , , , , , , ,		,,,,,,,,								
	() () () () () () () () () ()	the Sam	pled Area										
	· · · · · · · · · · · · · · · · · · ·	_	within a Wetland? Yes ○ No ●										
Wetland Hydrology Present? Yes O No Within a Wetland?													
Rem	arks:												
└ VEGETATION - Use scientific names of plants. List all species in the plot.													
	TATION -03e scientific flames of plants. L	ist all spe	cies iii tiie	piot.	Dominance Test worksheet:								
Two	Shumburu	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species								
1.	e Stratum	90 COVE		Status	That are OBL, FACW, or FAC: 3 (A)								
2.		0			Total Number of Dominant								
3.					Species Across All Strata:5(B)								
4.		- 0			Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)								
5.			Ī										
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:								
Sapl	ling/Shrub Stratum 50% of Total Cover:	001.0											
			of Total Cover:		OBL Species 0 x1 = 0 FACW Species 19 x 2 = 38								
	Empetrum nigrum		✓	FAC	FAC Species								
	Vaccinium uliginosum Vaccinium vitis-idaea			FAC FAC	FACU Species 6.2 x 4 = 24.8								
	Loiseleuria procumbens	- <u>-5</u> -5		FACU	UPL Species 7.1 x 5 = 35.5								
	Salix pulchra	15	П	FACW									
6.	·		\Box		Column Totals: <u>107.3</u> (A) <u>323.3</u> (B)								
7.		0			Prevalence Index = B/A = 3.013								
8.		0			Hydrophytic Vegetation Indicators:								
9.		0			✓ Dominance Test is > 50%								
10.		0			☐ Prevalence Index is ≤3.0								
	Total Cover	95			☐ Morphological Adaptations ¹ (Provide supporting data in								
Herl	50% of Total Cover:	47.5 20%	of Total Cover	: 19	Remarks or on a separate sheet)								
1.	Anemone parviflora	1		FACU	Problematic Hydrophytic Vegetation (Explain)								
2.	Erigeron canadensis	0.1		UPL	¹ Indicators of hydric soil and wetland hydrology must								
3.	Luetkea pectinata	3	V	UPL	be present, unless disturbed or problematic.								
4.	Artemisia globularia	4	✓	UPL	Plot size (radius, or length x width) 10m								
5.	Anthoxanthum monticola ssp. alpinum			FACU	% Cover of Wetland Bryophytes								
6.	Carex atrofusca			FACW	(Where applicable)								
	Gentianella propinqua			FACU	% Bare Ground								
	Rubus chamaemorus		✓	FACW	Total Cover of Bryophytes								
9.		0											
10 Hydrophytic													
	Total Cover 50% of Total Cover:		of Total Cover	2.46	Present? Yes No O								
_		20/0		2.70	l								
Rema	arks:												

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SOIL Sampling Point: SW13_T123_08

	ion: (Describe to t	the depth need	ded to docum	ent the ind		nfirm the abs		ators)			
Depth (inches)	Color (moi	ist)	%	Color (m	oist)	%	Type ¹	_Loc_2	Texture	Remarks	
0-1		<u> </u>			<u></u>				Fibric Organics		
1-3									Hemic Organics		
3-13		3/2	90	7.5YR	3/2	10			Loamy Sand	little bands of sand	
2-13	1016	- J/L		7.31K	3/4	10		141	Loanly June	IITTIE DANUS OI SANU	
								-			
<u> </u>											
		Depletion. F	Reduce						annel. M=Matrix		
Hydric Soil In							Hydric So	oils:	7		
	r Histel (A1)				Alaska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder Underlying Layer		
Histic Epip				☐ Alaska Alpine swales (TA5) ☐ Alaska Redox With 2.5Y Hue					Other (Explain in Remarks)		
	Sulfide (A4)			Alasi	ta Redox W	/ith 2.5Y H	iue		J Other (Explain in Remark	3)	
	Surface (A12)			³ One ir	ndicator of	hydrophyt	ic vegetatio	n, one prin	mary indicator of wetland h	ydrology,	
Alaska Gle							e position n			, 5,,	
	oox (A14) eyed Pores (A15	5)		4 Give d	etails of co	lor change	e in Remark	S			
Restrictive Laye	•										
Type: seas	sonal frost								Hydric Soil Present	? Yes ○ No •	
Depth (inch	nes): 13								•		
HYDROLO											
Wetland Hydr	rology Indica	tors:							Secondary Indi	cators (two or more are required)	
	tors (any one is	sufficient)							Water Stained Leaves (B9)		
Surface Water (A1)				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)						f Reduced Iron (C4)	
Water Mai		☐ Hydrogen Sulfide Odor (C1)☐ Dry-Season Water Table (C2)					Salt Depos	Stressed Plants (D1)			
Sediment Deposits (B2) Drift Deposits (B3)				Other (Explain in Remarks)						ic Position (D2)	
	or Crust (B4)			Utilei (Explain in Remarks)					✓ Shallow Ag	` '	
☐ Iron Depo								raphic Relief (D4)			
	oil Cracks (B6)								FAC-neutra		
Field Observa										. ,	
Surface Water	r Present?	Yes \bigcirc	No 💿	De	epth (inches	s):					
Water Table P	Present?	Yes 🔾	No 💿	Dε	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes ○ No •	
Saturation Pre	esent?	Yes 〇	_			•			•		
(includes capil	Depth (inches):										
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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