WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	orough Sampling Date: 03-Aug-13		
Applica	nt/Owner: Alaska Energy Authority			Sampling Point: SW13_T159_06			
	gator(s): CTS, AMD	e, hummocks etc.): Flat					
_	elief (concave, convex, none): flat		Slope: 1.0				
		l ot :					
_	ion : Interior Alaska Mountains	63.378863335	<u> </u>				
	p Unit Name:			<u> </u>	NWI classification: Upland		
Are Vo	egetation , Soil , or Hydrology	significantl naturally p wing san	y disturbed? roblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
	, , ,	the Sam	pled Area				
	· · · · · · · · · · · · · · · · · · ·		within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present? Yes ○ No ⑥						
	TATION -Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC:4 (A)		
	Picea glauca			FACU	Total Number of Dominant		
2. 3.					Species Across All Strata:5(B)		
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 80,0% (A/B)		
5.							
0.	Total Cover				Prevalence Index worksheet:		
Sanl		of Total Cover:	4	Total % Cover of: Multiply by:			
			_		OBL Species 0 x1 = 0 FACW Species 23 x2 = 46		
	Vaccinium uliginosum	45		FAC			
	Salix pseudomonticola	15	· •	FAC			
	Salix pulchra	15		FACW	FACU Species 21.1 x 4 = 84.40 UPL Species 0 x 5 = 0		
	Betula nana	10		FAC FAC			
	Salix reticulata Dasiphora fruticosa	10		FAC	Column Totals: <u>156.1</u> (A) <u>466.4</u> (B)		
	Empetrum nigrum	8		FAC	Prevalence Index = B/A = 2.988		
	Salix richardsonii	8		FACW	Hydranhytic Vocatation Indicators		
	Arataataahulaa ruhra	1		FAC	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
10.	Arctostaphylos rubra			TAC	✓ Prevalence Index is ≤3.0		
	Total Cover 50% of Total Cover:	122	% of Total Cover	: 24.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
_	Colomoratio consideracio	10	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
	Rumex arcticus			FAC	Indicators of hydric soil and wetland hydrology must		
	Polemonium acutiflorum			FAC	be present, unless disturbed or problematic.		
٠.	Rubus arcticus (IAM)			FACU	District (and in a surface of the control of the co		
	Equisetum scirpoides	0.1		FACU	Plot size (radius, or length x width) 10m		
6.					% Cover of Wetland Bryophytes (Where applicable)		
					% Bare Ground		
8.		0			Total Cover of Bryophytes 25		
10.		0 14.1			Hydrophytic		
	Total Cover	2.52	Vegetation Present? Yes ● No ○				
	50% of Total Cover:	7.05 20%	ou Total Cover:	2.82	11050110: 100 0 110 0		
Rema	arks: Lichen = 0						

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13 T159 06

Profile Descript	tion: (Describe to t	ne depth ne	eded to docu	ment the inc	licator or con	firm the abs	sence of indic	ators)			
Depth	M	latrix			Red	ox Featu			_		
(inches)	Color (moi	st)	<u>%</u>	Color (m	oist)	<u>%</u>	Type ¹	<u>Loc</u> 2	Texture	Remarks	
0-3									Hemic Organics		
3-12	5Y	3/1	90	10YR	4/6	10	C	PL	Loam		
12-20	5Y	4/1	85	7.5YR	4/6	15	С	PL	Loamy Sand		
						-			-		
						-					
¹Type: C=Co	ncentration. D=	Depletion.	RM=Reduc				_		annel. M=Matrix		
Hydric Soil 1	Indicators:				ors for Pro		4	oils:³ 	_		
Histosol o	or Histel (A1)				ka Color Cha		-		Alaska Gleyed Without Hu	e 5Y or Redder	
Histic Epi	pedon (A2)				ka Alpine sw				Underlying Layer		
Hydrogen	Sulfide (A4)			L Alas	ka Redox W	ith 2.5Y H	lue		Other (Explain in Remarks	5)	
	k Surface (A12)			3 ∩ne ir	ndicator of I	nydronhyt	ic vegetatio	n one nrir	mary indicator of wetland hy	ydrology	
	eyed (A13)				appropriate					urology,	
	edox (A14)			4 Give C	letails of col	lor change	in Remark	· S			
☐ Alaska Gl	eyed Pores (A15)				ior criarige	z iii reman				
Restrictive Lay	er (if present):										
Type:									Hydric Soil Present?	Yes ● No ○	
Depth (inc	hes):										
Remarks:											
HYDROLO)GY										
	Irology Indicat	ors:							Secondary Indic	ators (two or more are required)	
_	ators (any one is)							ed Leaves (B9)	
	Water (A1)			Ini	undation Vis	sible on A	erial Imagei	rv (B7)		atterns (B10)	
☐ High Wat	Sparsely Vegetated Concave Surface (B8)						izospheres along Living Roots (C3)				
Saturation (A3)				Marl Deposits (B15)						Reduced Iron (C4)	
☐ Water Ma					drogen Sulf		(C1)		Salt Deposit	es (C5)	
	t Deposits (B2)				y-Season W					Stressed Plants (D1)	
	osits (B3)				her (Explain		. ,			Position (D2)	
	t or Crust (B4)			_			,		Shallow Aqu		
	osits (B5)									raphic Relief (D4)	
	Soil Cracks (B6)								FAC-neutral		
Field Observ	ations:										
Surface Wate	er Present?	Yes C	No ●	De	epth (inches	s):					
Water Table	Present?	Yes C	No ●	De	epth (inches	·)·		Wetla	nd Hydrology Present	? Yes ○ No •	
Saturation Pr						•			, , , , , , , , , , , , , , , , , , , ,		
(includes cap		Yes \bigcirc	No 💿	De	epth (inches	5):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
only one secon	ndary hydrology	indicator of	bserved								

U.S. Army Corps of Engineers Alaska Version 2.0