WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hyd	roelectric Project	Вс	orough/City:	Matanusk	sa-Susitna Borough Sampling Date: 19-Jun-12			
Applica	int/Owner: Alaska Energy A	Authority				Sampling Point: SW12_T29_02			
nvesti	gator(s): JGK		L	Landform (hillside, terrace, hummocks etc.): Hillside					
₋ocal r	elief (concave, convex, none)	undulating	;	Slope: 83.9 % / 40.0 ° Elevation: 753					
Subreç	ion: Southcentral Alaska		Lat.: 6	2.792479909	91	Long.:148.81085997			
oil Ma	p Unit Name:					NWI classification: Upland			
Are V Are V	natic/hydrologic conditions on egetation , Soil , segetation , Soil , so	, or Hydrology	significantly naturally pro wing sam	disturbed? bblematic? pling point	(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? Wetland Hydrology Present? arks:	Yes O No G			the Sam ithin a W	pled Area /etland? Yes ○ No ●			
	TATION -Use scientific	names of plants. L	ist all spec	cies in the		Dominance Test worksheet:			
	e Stratum_		% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)			
1.	Picea glauca		1	~	FACU	Total Number of Dominant			
2.			0			Species Across All Strata: 4 (B)			
3. 4.						Percent of dominant Species That Are OBL, FACW, or FAC: 25,0% (A/B)			
5.						That Are OBE, I AGW, OF I AG			
	ling/Shrub Stratum	Total Cover 50% of Total Cover:	:0.2	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species 0 x 1 = 0					
1.	Alnus viridis		70	✓	FAC	FACW Species 0 x 2 = 0			
2.	Picea glauca		0.1		FACU	FAC Species			
3.	Viburnum edule		10		FACU	FACU Species 31 x 4 = 124			
4.			0			UPL Species <u>0</u> x 5 = <u>0</u>			
5.						Column Totals: <u>101</u> (A) <u>334</u> (B)			
6.						Prevalence Index = B/A = 3.307			
7.									
_						Hydrophytic Vegetation Indicators:			
						Dominance Test is > 50%			
	b Stratum	Total Cover 50% of Total Cover:	80.1	of Total Cover	T: 16.02	 Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 			
	Calamagrostis canadensis	_	0.1		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
	Equisetum sylvaticum		0.1		FAC	Indicators of hydric soil and wetland hydrology must			
	Cystopteris fragilis		10	<u></u>	FACU	be present, unless disturbed or problematic.			
	Trientalis europaea		10	~	FACU	Plot size (radius, or length y width)			
5.			-			Plot size (radius, or length x width)			
6.			0			(Where applicable)			
7.			0			% Bare Ground			
						Total Cover of Bryophytes			
1 4 -						Hydrophytic			
10.		Total Cover	• 20.2			VOGOTATION			
10.		Total Cover 50% of Total Cover:		of Total Cover	: 4.04	Vegetation Present? Yes ○ No ●			

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SOIL Sampling Point: SW12_T29_02

		the depth ne	eeded to docum	ent the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1.5					. —			Fibric Organics			
1.5-6	10YR	3/3	90					Clay Loam	1 in sandy band @ base large subang gra		
6-12	10YR	3/3	70					Sandy Clay Loam	large subang gravel and woody detr		
12-18									Large subang gravel and sand (1-2 in grav		
								-			
¹Type: C=Cor	ncentration. D=	:Depletion	. RM=Reduce	d Matrix ² Location				annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	roblematio	c Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color C	hange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	swales (TA	5)	_	Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y H	lue		Other (Explain in Remark	cs)		
☐ Thick Dark	Surface (A12)			30	en ar a de r			to Protect of Control I	A. J.		
Alaska Gle	eyed (A13)			and an appropria				mary indicator of wetland hesent	iyarology,		
Alaska Red	dox (A14)					•	•				
Alaska Gle	yed Pores (A15	5)		⁴ Give details of o	olor change	e in kemark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one i	s sufficient	t)					Water Stained Leaves (B9)			
Surface Water (A1)				Inundation V	/isible on A	erial Imager	ry (B7)	Drainage Patterns (B10)			
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Salt Deposits (C5)			
Saturation (A3)				Marl Deposits (B15)							
Water Marks (B1)				Hydrogen Sulfide Odor (C1)							
Sediment	☐ Dry-Season \					Stressed Plants (D1)					
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)								ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depo	. ,								graphic Relief (D4)		
Field Observa	oil Cracks (B6)							FAC-fleutra	al Test (D5)		
Surface Water		Yes (No ●	Depth (inche	ec).						
			No O	. ,	•		Mada.	u d Hadaalaaa Baaaa	t? Yes • No O		
Water Table P				Depth (inche	₃s): 7		wetia	nd Hydrology Presen	it! Tes S NO C		
Saturation Present? (includes capillary fringe) Yes No				Depth (inches): 7							
Describe Recor	ded Data (stre	am gauge,	monitor well	, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											

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