WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 18-Aug-15
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T319_02
nvestigator(s): BAB		Landform (hil	lside, terrac	e, hummocks etc.): Planar Slope
Local relief (concave, convex, none): hummocky		Slope: 17.6	3 % / 10.0	- · · · · · · · · · · · · · · · · · · ·
Subregion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
Soil Map Unit Name:				
· -		. V	● No ○	NWI classification: Upland
	significantly naturally pro	disturbed?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ided, explain any answers in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ided, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes ● No C				
Hydric Soil Present? Yes ○ No ④		Is	the Sam	pled Area
Wetland Hydrology Present? Yes O No 🤄		w	ithin a W	/etland? Yes ○ No •
Remarks: planar slope, bouldery				
/EGETATION -Use scientific names of plants. Li				Dominance Test worksheet:
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
Picea mariana	15	✓	FACW	That are OBL, FACW, or FAC:5(A)
2.	0		-	Total Number of Dominant Species Across All Strata: 5 (B)
3.	0			Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cover	15			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	7.5 20%	of Total Cover	:3	OBL Species 0 x 1 = 0
Picea mariana	25	✓	FACW	FACW Species 42 x 2 = 84
Picea mariana Vaccinium uliginosum	15	✓	FACV	FAC Species 49.1 x 3 = 147.3
2 Datula glandulaga			FAC	FACU Species 4.1 x 4 = 16.4
4 Empetrum nigrum			FAC	UPL Species 0 x 5 = 0
Salix commutata	3		FAC	
6. Salix alaxensis	2		FAC	
7. Spiraea stevenii	2		FACU	Prevalence Index = B/A = 2.602
8. Vaccinium vitis-idaea	2		FAC	Hydrophytic Vegetation Indicators:
9. Rhododendron groenlandicum	1		FAC	✓ Dominance Test is > 50%
10.	0		FAC	✓ Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover:		of Total Cove	r: <u>11.8</u>	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Equisetum sylvaticum	9	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
Equisetum arvense	5	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must
3. Sanguisorba canadensis			FACW	be present, unless disturbed or problematic.
4. Cornus suecica	2		FAC	Plot size (radius, or length x width)
5. Calamagrostis canadensis			FAC	% Cover of Wetland Bryophytes
6. Orthilia secunda			FACU	(Where applicable)
7. Chamaenerion angustifolium			FACU	% Bare Ground
8. Rumex crispus			FAC	Total Cover of Bryophytes80
9. Streptopus amplexifolius	0.1		FACU	
10				Hydrophytic Vegetation
Total Cover 50% of Total Cover:		of Total Cover	: 4.24	Present? Yes No
				1
Remarks:				

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SOIL Sampling Point: SW15_T319_02

Depth – (inches)	C-law (mag		01	0-1 (a-lab)	0/	- 1	• 2	Texture	Remarks
0-2	Color (mo	ist)	<u>%</u> _	Color (moist)	<u>%</u>	Type ¹	_Loc_ ²	Fibric Organics	Oi
2-3			100					Sapric Organics	Oa
3-4.5	 7.5YR	2.5/2	100					Silt Loam	A
4.5-6	10YR	2.5/2 2/2	100					Silt Loam	BA
								Silt Loam	
6-11	2.5Y	4/1	100						Cg
11-12.5	10YR	3/4	100					Silt Loam	C
12.5								-	subrounded angular cobbles to bould colluvium?
Type: C=Conce	entration. D:	=Depletion	RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix	
Hydric Soil Ind	dicators:			Indicators for Pr	oblemati	c Hydric So	oils:		
Histosol or H	Histel (A1)			Alaska Color C	hange (TA	4) ⁴		Alaska Gleyed Withou	t Hue 5Y or Redder
Histic Epiped	don (A2)			Alaska Alpine s	•	•	_	Underlying Layer	
Hydrogen Su	ulfide (A4)			Alaska Redox \	Nith 2.5Y H	Hue		Other (Explain in Rem	narks)
_	Surface (A12))		3 One indicator of	· hudronhy	∺s vegetatic	none nrir	mary indicator of wetlar	- I hadrology
Alaska Gleye				and an appropria					id flydrology,
☐ Alaska Redo	• •	¥		4 Give details of o	olor chang	e in Remark	′ S		
Alaska Gleye									
and the said and the said	(if present):						1		
-									· · · ·
Type:	`							Hydric Soil Prese	ent? Yes O No 🖲
Type: Depth (inchesemarks:		ved.Large	cobbles and	1 boulders below sha	llow organi	ics. Avoided	boulders a		hin the plot with more fine material.
Type: Depth (inchesemarks:		ved.Large	cobbles and	1 boulders below sha	llow organi	ics. Avoided	boulders a		
Type: Depth (inchesemarks:	licators obser	ved.Large	cobbles and	i boulders below sha	llow organi	ics. Avoided	boulders a		
Type: Depth (inches emarks: Depth bydric soil indi	icators obser	ators:		1 boulders below sha	llow organ	ics. Avoided	boulders a	and described a site wit	hin the plot with more fine material. Indicators (two or more are required)
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