WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 08-Aug-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T169_03
	igator(s): BAB		Landform (hil	lside, terrac	ee, hummocks etc.): Gulch or Gully
	relief (concave, convex, none): concave		Slope:		² Elevation: 822
		l ot :	· · —		
	gion : Interior Alaska Mountains	Lal	63.41879962	97	
	ap Unit Name:			<u> </u>	NWI classification: Upland
	matic/hydrologic conditions on the site typical for this t	-	r? Yes	● No ○	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
		J	,		ionnai oli odinotanoco procont.
Are v	√egetation ☐ , Soil ☐ , or Hydrology ☐	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map sho	wing sar	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes O No		_		
	Hydric Soil Present? Yes O No				pled Area
	Wetland Hydrology Present? Yes O No		W	ithin a W	etland? Yes ○ No ⑥
Rem	arks: small seasonal channels running through, curren	tly dry			
/EGE	ETATION - Use scientific names of plants. L	ist all sp		plot.	Dominance Test worksheet:
Tre	ee Stratum	% Cove		Status	Number of Dominant Species
1.		0			That are OBL, FACW, or FAC:1(A)
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)
3.					Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 33.3% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cove	r: <u>0</u>	-		Total % Cover of: Multiply by:
Sap	pling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	:0	OBL Species 0 x 1 = 0
1	Spiraea stevenii	10		FACU	FACW Species 14 x 2 = 28
	Bara anti- tarta			FACU	FAC Species 98 x 3 = 294
3.	Dibaa triata		-	FAC	FACU Species 58 x 4 = 232
4.	Alnus viridis			FAC	UPL Species 0 x 5 = 0
5.		_			Column Totals: <u>170</u> (A) <u>554</u> (B)
6.		_		-	
7.		0			Prevalence Index = B/A = 3.259
8.		0			Hydrophytic Vegetation Indicators:
9.		0			Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Hei	Total Cove rb Stratum 50% of Total Cover:		_ % of Total Cove	r: <u>20.2</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Thalictrum occidentale	20	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Heracleum maximum	15	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must
3.	Aconitum delphiniifolium	3		FAC	be present, unless disturbed or problematic.
4.	Mertensia paniculata	6		FACU	Plot size (radius, or length x width) 10m
		6		FACW	Plot size (radius, or length x width)
5.	Petasites frigidus			EACW/	
5. 6.	Detecitos frieidus	8	- 📙	FACW	(Where applicable)
	Petasites frigidus Sanguisorba canadensis Spinulum annotinum	8		FACU	(Where applicable) % Bare Ground
6.	Petasites frigidus Sanguisorba canadensis Spinulum annotinum Calamagrostis canadensis	8 3 5		FACU	, , ,
6. 7.	Petasites frigidus Sanguisorba canadensis Spinulum annotinum Calamagrostis canadensis Dryopteris expansa	8 3 5 2		FACU FACU	% Bare Ground15
6. 7. 8.	Petasites frigidus Sanguisorba canadensis Spinulum annotinum Calamagrostis canadensis Dryopteris expansa Equisetum arvense	8 3 5 2 1		FACU	% Bare Ground 15 Total Cover of Bryophytes 5
6. 7. 8. 9.	Petasites frigidus Sanguisorba canadensis Spinulum annotinum Calamagrostis canadensis Dryopteris expansa Equisetum arvense Total Cover	8 3 5 2 1 69	of Total Cover	FACU FAC FACU FAC	% Bare Ground 15 Total Cover of Bryophytes 5

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SOIL Sampling Point: SW13_T169_03

(inches)	Color (m	ioist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-3			100					Fibric Organics	
3-8	7.5YR	2.5/2	100					Loam	w high organic content
8-14	10YR	3/3	100					Loam	w/ organic rich layer
									_
								-	
	-								
T				21			D Cl	I M. Malif	
)=Depletior		d Matrix ² Locatio				nnei. M=Matrix	
ydric Soil In □				Indicators for P	4	Hydric Soil	is:		
☐ Histosol or	. ,			Alaska Color C Alaska Alpine				Alaska Gleyed Withou Underlying Layer	it Hue 5Y or Redder
 Histic Epipe Hydrogen S				Alaska Redox		٩		Other (Explain in Ren	narks)
¬ ' -	Surface (A4)	2)			With 2.51 Hat	_			,
Alaska Gley	•	-)						nary indicator of wetlar	nd hydrology,
Alaska Red				and an appropria	ite iandscape	position mu	ist de pre	esent	
Alaska Gley	ed Pores (A	15)		4 Give details of o	color change in	n Remarks			
strictive Layer	r (if present)):							
Type:								Hydric Soil Prese	ent? Yes O No 💿
								•	
		erved. hit ro	ock at 4. possib	ole boulder?				<i>,</i>	
emarks:		erved. hit ro	ock at 4. possib	ole boulder?				,	
emarks: hydric soil ind	dicators obse		ock at 4. possik	ole boulder?				,	
emarks: hydric soil ind	GY ology India	cators:		ole boulder?					indicators (two or more are required)
YDROLOG etland Hydro	GY ology Indic	cators:						Water	Stained Leaves (B9)
YDROLOG (etland Hydrorimary Indicat	GY ology Indicors (any one ater (A1)	cators: e is sufficier		☐ Inundation \	/isible on Aeri			Water	Stained Leaves (B9) ge Patterns (B10)
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YDROLOG etland Hydrimary Indicat Surface Wa High Watee	GY ology India ors (any one ater (A1) r Table (A2) (A3)	cators: e is sufficier		☐ Inundation \ ☐ Sparsely Veg ☐ Marl Deposit	getated Conca cs (B15)	ave Surface		Water : Drainag Oxidize Present	Stained Leaves (B9) ge Patterns (B10) d Rhizospheres along Living Roots (C ce of Reduced Iron (C4)
rmarks: hydric soil ind rDROLOG etland Hydrimary Indicat Surface Wa High Water Saturation Water Mar	GY ology Indicors (any one atter (A1) r Table (A2) (A3) ks (B1)	cators: e is sufficier		Inundation \ Sparsely Veg Marl Deposit Hydrogen St	getated Conca s (B15) ulfide Odor (C	ave Surface		Water : Drainag Oxidize Presen	Stained Leaves (B9) ge Patterns (B10) d Rhizospheres along Living Roots (C ce of Reduced Iron (C4) posits (C5)
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