WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:

Susitna-Watana Hydroelectric Project

Borough/City: Matanuska-Susitna Borough

Sampling Date: 23-Jun-12

Applica	nt/Owner: Alaska Energy Authority				Sampling Point:	SW12_T10_03							
nvesti	gator(s): SLI, LMF	L	andform (hill	side, terrac	e, hummocks etc.): Alluvial fan								
_ocal r	elief (concave, convex, none): rolling		Slope: 0.0	% / 0.0	° Elevation: 228								
Subreg	ion : Southcentral Alaska	 Lat.: 6	2.784739908		 Long.: -149.661859966	Datum: WGS84							
_	p Unit Name:	_			NWI classification: PSS1								
	are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)												
	egetation . , Soil . , or Hydrology	significantly				s • No O							
	Are Vegetation ✓ , Soil ✓ , or Hydrology □ naturally problematic? (If needed, explain any answers in Remarks.)												
SUM	MARY OF FINDINGS - Attach site map she	owing sam	pling point	locations	s, transects, important features	, etc.							
	Hydrophytic Vegetation Present? Yes ● No	0											
Hydric Soil Present? Yes No No Is the Sampled Area													
	Wetland Hydrology Present? Yes No	0	Wi	ithin a W	etland? Yes ● No ○								
Remarks: no hydric soil indicators. large portions of site flooded, with salix in standing water, fully submerged geumac, calcan, and chalat. high water													
event, veg community and soils suggest that this is typically much more dry.													
/EGETATION -Use scientific names of plants. List all species in the plot.													
	<u>'</u>	Dominance Test worksheet:											
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species								
1.		0			That are OBL, FACW, or FAC:	3(A)							
2.					Total Number of Dominant Species Across All Strata:	6 (B)							
3.					Percent of dominant Species	(
4.		0			That Are OBL, FACW, or FAC:	50.0% (A/B)							
5.					Prevalence Index worksheet:								
	Total Cove	er: <u>0</u>			Total % Cover of: Multiple	y by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 1 x 1 =	• •							
1	Rubus idaeus	1		FACU	FACW Species 4 x 2 =								
2.	Alnus incana ssp. tenuifolia	- 1 7		UPL	FAC Species 40 x 3 =								
3.	Coliv alougo		✓	FAC	FACU Species 27 x 4 =								
4.	Coliv locion dro	0.1		FACW	UPL Species 8 x 5 =								
5.	Populus balsamifera		<u></u>	FACU	Column Totals: 80 (A)								
6.	Salix alaxensis			FAC	Column Totals: 80 (A)	<u>277</u> (B)							
7.	Salix richardsonii	3		FACW	Prevalence Index = B/A =	3.463							
8.	Galium triflorum	1		FAC	Hydrophytic Vegetation Indicators:								
9.	Lupinus arcticus			FACU	Dominance Test is > 50%								
10.	Juncus arcticus	1		OBL	Prevalence Index is ≤3.0								
Her	Total Cover 50% of Total Cover:		of Total Cover	: 8.82	Morphological Adaptations ¹ (Provide Remarks or on a separate sheet)	e supporting data in							
1.	Chamerion latifolium	10	✓	FAC	✓ Problematic Hydrophytic Vegetation	1 (Explain)							
2.	Artemisia tilesii	3		FACU	¹ Indicators of hydric soil and wetland hyd	drology must							
3.	Calamagrostis canadensis	7	✓	FAC	be present, unless disturbed or problema	atic.							
4.	Carex spectabilis	1		FACW	Plot size (radius, or length y width)	10							
5.	Geum macrophyllum	2		FAC	Plot size (radius, or length x width)	_10m							
6.	Taraxacum officinale	5		FACU	(Where applicable)								
7.	Mertensia paniculata	5	✓	FACU	% Bare Ground	_95							
8.	Hedysarum boreale	_ 1		UPL	Total Cover of Bryophytes								
9.	Achillea millefolium	1		FACU									
10.	Equisetum scirpoides	1		FACU	Hydrophytic								
	Total Cove				Vegetation)							
	50% of Total Cover:	<u>18</u> 20% (of Total Covers	7.2	Present? Tes S NO C	,							
6. 7. 8. 9.	Taraxacum officinale Mertensia paniculata Hedysarum boreale Achillea millefolium Equisetum scirpoides Total Cove	5 5 1 1 1 1 20% (sely transition		FACU FACU UPL FACU FACU FACU FACU Tand gets file	% Bare Ground Total Cover of Bryophytes Hydrophytic Vegetation Present? Yes No) nal basis, colonizing							

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SOIL Sampling Point: SW12_T10_03

		he depth nee	ded to documen	t the indicator or co	nfirm the ab		ators)				
Depth (inches)	Color (moi	st)	% C	olor (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4	2.5Y	3/1	100					Sandy Clay			
4-15			60					Sand	coarse sand and 40% coarse gravel		
									course sum una 10 % course grave.		
					-						
-											
Type: C=Cor	ncentration. D=	Depletion.	RM=Reduced	Matrix ² Location	n: PL=Pore	E Lining. RC	=Root Cha	nnel. M=Matrix			
		•				_					
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Alaska Color Change (TA4)						,iis. 	Al-al-a Classed NA/SH-as-E 11	FV Dadda			
	Histel (A1)			_	r Change (TA4)						
Histic Epip				_	-	•	✓	, , ,	e)		
	Sulfide (A4)		L	☐ Alaska Redox \	WITH 2.5Y F	iue	· ·	Other (Explain in Remark	3)		
	Surface (A12)		3	One indicator of	hvdronhvt	ic vegetatio	n. one prim	nary indicator of wetland h	vdrology.		
Alaska Gle				and an appropria					yarology,		
Alaska Red	. ,		4	Give details of c	olor change	a in Domark	c				
☐ Alaska Gle	yed Pores (A15)		Give details of C	olor change	e III Kelliai k					
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydi		tors:						Secondary Indi	cators (two or more are required)		
	tors (any one is							Water Stained Leaves (B9)			
Surface W	/ater (A1)			☐ Inundation V	isible on A	erial Image	rv (B7)				
			Sparsely Veg		_			hizospheres along Living Roots (C3)			
Saturation (A3)				Marl Deposits (B15)					f Reduced Iron (C4)		
☐ Water Ma	. ,			Hydrogen Sulfide Odor (C1)				Salt Depos	` '		
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
✓ Drift Depo	,			Other (Expla				✓ Geomorphi	` '		
· ·	or Crust (B4)			Other (Expla	iii iii recina	110)			uitard (D3)		
Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							FAC-neutra			
Field Observa	· · · ·										
Surface Water		Yes 🔾	No 💿	Depth (inche	es):						
Water Table P		Yes •	No O	, ,	•		Wetlar	nd Hydrology Presen	t? Yes ● No ○		
				Depth (inche	es): 15		Wetiai	ia riyarology Fresen	t: les C NO C		
Saturation Pre (includes capil		Yes 💿	No O	Depth (inche	es): 13						
Describe Recor	ded Data (strea	am gauge, i	monitor well, a	erial photos, pre	vious inspe	ction) if ava	ilable:				
Remarks:											
	itna river Floor	ding at thic	site would pri	marily occur from	small und	ream tribut	ary Locato	d on branch off main pern	nanently flooded channel and flood		
frequency may		uniy at tiliS	are would bull	mainy occur iron	ı əman upsi	. cam unuut	ary. LUCATE	а он втанен он шаш регг	nanentry nooded charmer alla 11000		
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