WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 23-Jun-12				
Applicant/Owner: Alaska Energy Authority	Sampling Point:SW12_T10_01				
Investigator(s): SLI, LMF	Landform (hillside, terrace, hummocks etc.): Floodplain				
Local relief (concave, convex, none): flat	Slope: 0.0 % / 0.0 ° Elevation: 231				
Subregion : Southcentral Alaska Lat.:	62.7861115756 Long.: -149.658681632 Datum: WGS84				
Soil Map Unit Name:	NWI classification: Upland				
	har? Yes No (If no, explain in Remarks.) htly disturbed? Are "Normal Circumstances" present? Yes No problematic? (If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.				

Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo	Is the Sampled Area within a Wetland? Yes \bigcirc No \textcircled{ullet}
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Remarks: dense salix-alnus community, dominated by tall, tree-form salix and alnus. pressed salbar.

VEGETATION - Use scientific names of plants. List all species in the plot.

		Absolu	te Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum		<u>% Cov</u>		Status	Number of Dominant Species		
1.	Populus balsamifera	1	5 🗸	FACU	That are OBL, FACW, or FAC: 7 (A)		
2.	Alnus viridis ssp. sinuata	1	5 🖌	FAC	Total Number of Dominant Species Across All Strata: 10 (B)		
3.	Salix glauca	1	0	FAC	Percent of dominant Species		
4.	Salix richardsonii		5 🗸	FACW	That Are OBL, FACW, or FAC: 70.0% (A/B)		
5.					Prevalence Index worksheet:		
	Total Cover:				Total % Cover of: Multiply by:		
Sap	Sapling/Shrub Stratum 50% of Total Cover: 27.		0% of Total Cover:	11	OBL Species $0 \times 1 = 0$		
1.	Ribes triste		3	FAC	FACW Species 16 x 2 = 32		
2.	Alnus incana ssp. tenuifolia	1	0	UPL	FAC Species 65 x 3 =195		
3.	Salix glauca		0	FAC	FACU Species <u>24</u> x 4 = <u>96</u>		
4.	Salix alaxensis		0	FAC	UPL Species <u>10</u> x 5 = <u>50</u>		
5.	Salix barclayi	1	0	FAC	Column Totals: 115 (A) 373 (B)		
6.		(
					Prevalence Index = B/A = <u>3.243</u>		
					Hydrophytic Vegetation Indicators:		
					✓ Dominance Test is > 50%		
					Prevalence Index is ≤3.0		
Total Cover: 43					Morphological Adaptations ¹ (Provide supporting data in		
Herb Stratum 50% of Total Cover: 21.5		21.5	20% of Total Cover	8.6	Remarks or on a separate sheet)		
1.	Thalictrum sparsiflorum	2	2	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.	Artemisia tilesii			FACU	¹ Indicators of hydric soil and wetland hydrology must		
3.	Mertensia paniculata			FACU	be present, unless disturbed or problematic.		
4.	Calamagrostis canadensis		3 🖌	FAC	Plot size (radius, or length x width)		
5.	Trientalis europaea			FACU	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes		
6.	Heracleum maximum			FACU	(Where applicable)		
7.	Galium triflorum			FAC	% Bare Ground85		
8.	Equisetum arvense	3	3	FAC	Total Cover of Bryophytes 10		
9.	Matteuccia struthiopteris			FACW			
10.	Gymnocarpium dryopteris	3	3	FACU	Hydrophytic		
Total Cover:					Vegetation		
	50% of Total Cover:	8.5 2	0% of Total Cover:	3.4	Present? Yes \bullet No \bigcirc		
Rem	arks: very tall (20ft), tree form alnus and salix.						

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Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features					cators)						
Depth (inches)	Color (mo	Color (moist) %		Color (moist) <u>%</u> Type ¹		Loc 2	Texture	Remarks			
0-6	5Y	3/1	80			Type	LUC	Loamy Sand	20% roots		
6-9	2.5Y	2.5/1	70					Sandy Clay Loam	10% roots, 20% subang gravels		
9-18	5Y	3/1	20					Sand	80% gravels and cobbles (1-4in)		
						-					
					-						
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	ndicators:			Indicators for Pro	oblemati	c Hydric S	oils: ³				
_	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	lue 5Y or Redder		
	edon (A2)			Alaska Alpine sv	wales (TA	5)		Underlying Layer			
	Sulfide (A4)			Alaska Redox W	/ith 2.5Y I	Hue		Other (Explain in Remar	ks)		
	< Surface (A12)										
🗌 Alaska Gle	eyed (A13)			³ One indicator of and an appropriate				nary indicator of wetland l	nydrology,		
🗌 Alaska Ree	dox (A14)						•	esent			
🗌 Alaska Gle	eyed Pores (A15	5)		⁴ Give details of co	lor chang	e in Remarl	<s< td=""><td></td><td></td></s<>				
Restrictive Laye	er (if present):										
Type:	(p)							Hydric Soil Present	:? Yes 🔿 No 🖲		
Depth (incl	nes):										
Remarks:											
no hydric soil ir	ndicators										
no nyane son n	laicators										
HYDROLO											
Wetland Hyd									icators (two or more are required)		
·	tors (any one i	s sufficient)					Water Stained Leaves (B9)			
Surface V	. ,			Inundation Vi		-	,	Drainage Patterns (B10)			
	er Table (A2)			Sparsely Vege		ncave Surfa	ce (B8)		Chizospheres along Living Roots (C3)		
Saturation	()			Marl Deposits	• •	(61)		_	of Reduced Iron (C4)		
Water Ma	. ,			Hydrogen Sul				Salt Deposits (C5)			
Sediment Sediment	Deposits (B2)			Dry-Season V		. ,		Stunted or Stressed Plants (D1)			
·	or Crust (B4)				i ili kelila	11.65)			quitard (D3)		
									graphic Relief (D4)		
	oil Cracks (B6)								al Test (D5)		
Field Observa											
Surface Wate		Yes \mathbb{C}	No 🖲	Depth (inche	5):						
		-	No 🖲				Wotla	nd Hydrology Preser	nt? Yes 🖲 No 🔾		
Water Table F				Depth (inche	5):		weud	na nyarology Preser			
Saturation Pre (includes capi		Yes \bigcirc	No 🖲	Depth (inche	5):						
Describe Recor	Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:											
drift deposits of rafted soil and organics, 1ft above ground surface											