WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sampling Date:	03-Aug-13			
Applicant/Owne	r: Alaska Energy Authority		Sampli	ng Point: S	W13_T194_06			
Investigator(s):	SLI, EAC	Landform (hill:	side, terrace, hummocks etc.):	Floodplain				
Local relief (cor	ncave, convex, none): flat	Slope:	% / 7.7 ° Elevation: 85	1				
Subregion : In	terior Alaska Mountains Lat.:	63.352012396	4 Long.: -148.33648	1452	Datum: NAD83			
Soil Map Unit N	ame:		NWI class	ification: PSS1	с			
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)								
SUMMARY	OF FINDINGS - Attach site map showing sa	ampling point	locations, transects, impor	rtant features	, etc.			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes () Yes ()	No () No () No ()	Is the Sampled Area within a Wetland?	Yes 🖲 No 🔾
Remarks:				

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

Abso			ite Dominant Indicat		Dominance Test worksheet:	
Tree Stratum % C				Status	Number of Dominant Species	
1.	Salix alaxensis	15		FAC	That are OBL, FACW, or FAC: (A)	
2.		0			Total Number of Dominant Species Across All Strata: 4 (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:	
Sap	ling/Shrub Stratum 50% of Total Cover: 7	7.5 20	% of Total Cover:	3	OBL Species $0 \times 1 = 0$	
1	Ribes triste	1		FAC	FACW Species 27.1 x 2 = 54.20	
2.	Oalin andahaa		-	FACW	FAC Species <u>167.1</u> x 3 = <u>501.3</u>	
3.	Salix richardeonii	5	-	FACW	FACU Species #####; x 4 = 32.80	
4.	Salix alaxensis	50	\checkmark	FAC	UPL Species 0 x 5 = 0	
5.	Salix barclayi	10		FAC	Column Totals: 202.4 (A) 588.3 (B)	
		0				
					Prevalence Index = B/A =2.907_	
					Hydrophytic Vegetation Indicators:	
					✓ Dominance Test is > 50%	
		0			✓ Prevalence Index is \leq 3.0	
	Total Cover:	73			Morphological Adaptations ¹ (Provide supporting data in	
Her	b Stratum 50% of Total Cover:3	36.5 20	% of Total Cover:	14.6	Remarks or on a separate sheet)	
1.	Petasites frigidus	15		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.				FAC	¹ Indicators of hydric soil and wetland hydrology must	
3.	Mertensia paniculata	3	_	FACU	be present, unless disturbed or problematic.	
4.	Aconitum delphiniifolium	1		FAC	Plot size (radius, or length x width)5m	
5.	Heracleum maximum	5		FACU	% Cover of Wetland Bryophytes	
6.	Chamaenerion angustifolium	0.1	_	FACU	(Where applicable)	
7.	Equisetum arvense	60		FAC	% Bare Ground80	
8.	Artemisia tilesii	0.1		FACU	Total Cover of Bryophytes10	
9.	Sanguisorba officinalis	0.1		FACW		
10.	Polemonium acutiflorum	0.1	_	FAC	Hydrophytic	
	Total Cover:	Vegetation				
	50% of Total Cover:5	7.2 20	% of Total Cover:	22.88	Present? Yes \bullet No \bigcirc	
Remarks: Delphnium glauca - trace						

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features											
(inches)	Depth		%			Type ¹	Loc 2	Texture	Remarks			
0-4	5YR	2.5/1	100		0122)				Fibric Organics			
4-12		4/3	90	2.5YR	4/8	10	С		Silt Loam			
			90	2.31K	4/0		- <u> </u>					
					·							
	· ·				·							
¹ Type: C=Con	centration. D	=Depletion	. RM=Reduc	ed Matrix	² Location	: PL=Pore	e Lining. RC	C=Root Cha	nnel. M=Matrix			
Hydric Soil In	ndicators:			Indicat	ors for Pro	oblematio	c Hydric So	oils: ³				
	Histel (A1)				ka Color Ch		4] Alaska Gleyed Without Hu	ue 5Y or Redder		
Histic Epip	. ,				ka Alpine sv	• •	,		Underlying Layer			
	Sulfide (A4)				ka Redox W	-			Other (Explain in Remark	s)		
	Surface (A12)										
Alaska Gle		,					tic vegetation		nary indicator of wetland h	ydrology,		
✓ Alaska Red				dilu dii	арргорнак	3 IdHuscap	e posicion i	must be pro	esent			
	yed Pores (A1	5)		⁴ Give d	letails of co	lor change	e in Remark	<s< td=""><td></td><td></td></s<>				
Restrictive Laye	er (if present):											
Type:	a (ii presency.								Hydric Soil Present	? Yes 🖲 No 🔿		
Depth (inch	nec):								nyune son mesene			
Remarks:	1	500 /										
Subangular cob	bles at 10 inci	1es - 20%										
HYDROLO		• •								*		
Wetland Hydr										cators (two or more are required)		
Primary Indicat		IS SUMICIEM	[]		1			(27)	Water Stained Leaves (B9) 7) Drainage Patterns (B10)			
Surface W	. ,						erial Image					
	er Table (A2)						ncave Surfa	ce (B8)	Presence of Reduced Iron (C4)			
Saturation	. ,				arl Deposits	. ,	(01)		Salt Deposits (C5)			
↓ Water Mai ✓ Sediment					drogen Suli				Stunted or Stressed Plants (D1)			
Drift Depo	,			_	y-Season W her (Explair				Geomorphic Position (D2)			
	or Crust (B4)				лег (Ехріан	1 In Kema	rksj		Shallow Aq			
Iron Depo										raphic Relief (D4)		
· _ ·	oil Cracks (B6)								FAC-neutra			
Field Observa	. ,											
Surface Water		Yes C	No 💿	De	epth (inches	c).						
		-						Wetla		t? Yes $ullet$ No $igodom$		
Water Table P				De	epth (inches	;):		wetia	nd Hydrology Presen	te tes 👻 No 🖯		
Saturation Pre (includes capil	llary fringe)) No 🖲		epth (inches	,						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
riparian wetland, sediment deposits on substrates.												