## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	ka-Susitna Borough Sampling Date: 03-Aug-12			
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T37_08			
	gator(s): CTS, EKJ		Landform (hil	lside, terrac	ce, hummocks etc.): Flat			
Local r	elief (concave, convex, none): flat		Slope:	% / 9.6	6 ° Elevation: 234			
	ion : Southcentral Alaska	l at ·	62.817648320		Long.: -149.565995716 Datum: NAD83			
_			02.017040320	J <del>-1</del>				
	p Unit Name:		o V	No ○	NWI classification: Upland			
Are V	egetation  , Soil  , or Hydrology  , or Hydrology  , or Hydrology	significantly naturally pr wing sam	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○  eded, explain any answers in Remarks.)  s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes ● No C		1-	the Com	valed Avec			
	Hydric Soil Present? Yes O No •	)	Is the Sampled Area within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present? Yes O No 🖲	)	W	ithin a W	etland? res O No O			
	rks: Riverine Stcaw  TATION -Use scientific names of plants. Li	st all spe	ecies in the	plot.				
		Absolute	Dominant		Dominance Test worksheet:			
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)			
1.					Total Number of Dominant			
2.		0			Species Across All Strata:5 (B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: 60.0% (A/B)			
5.					Prevalence Index worksheet:			
	Total Cover				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	:0	OBL Species 0 x 1 = 0			
1.	Salix barclayi	30	<b>✓</b>	FAC	FACW Species 10 x 2 = 20			
2.	Viburnum edule	20		FACU	FAC Species <u>80</u> x 3 = <u>240</u>			
3.	Alnus incana	40	<b>✓</b>	FAC	FACU Species <u>85</u> x 4 = <u>340</u>			
4.	Rosa acicularis	15		FACU	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Rubus idaeus	10		FACU	Column Totals: <u>175</u> (A) <u>600</u> (B)			
6.		0						
7.		0			Prevalence Index = B/A = 3.429			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0_			✓ Dominance Test is > 50%			
10.		0_			Prevalence Index is ≤3.0			
Her	Total Cover: 50% of Total Cover:		6 of Total Cove	r: <u>23</u>	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)			
1.	Artemisia tilesii	5		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
2.	Delphinium glaucum	8		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
3.	Heracleum maximum	15	<b>✓</b>	FACU	be present, unless disturbed or problematic.			
4.	Chamaenerion angustifolium		<b>✓</b>	FACU	Plot size (radius, or length x width)			
5.	Mertensia paniculata			FACU	% Cover of Wetland Bryophytes 0			
6.	Galium aparine			FACU	(Where applicable)			
7.	Trientalis europaea			FACU	% Bare Ground			
8.	Equisetum pratense			FACW	Total Cover of Bryophytes			
9.	Calamagrostis canadensis			FAC				
10.	Streptopus amplexifolius			FACU	Hydrophytic			
	<b>Total Cover</b> : 50% of Total Cover:		of Total Cover	: 12	Vegetation Present? Yes ● No ○			
Rem	arks: Acodel = 1 cover				<u>'</u>			

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SOIL Sampling Point: SW12\_T37\_08

	the depth needed <b>1atrix</b>	I to document the indicator of	or confirm the abs		ators)		
Depth (inches) Color (mo		Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks
0-1	10			Турс	LUC	Fibric Organics	
1-4 10YR	2/2 8					Loamy Sand	20% roots
4-5 7.5YR	2.5/1 8					Sandy Loam	20% roots
							-
5-7 2.5Y	4/2 9					Loamy Sand	10% roots
7-11 2.5Y	4/3 9	5				Loamy Sand	5% roots
11-13 5YR	2.5/2 10	00				Loamy Sand	few roots
13-16 10YR	3/6 10	00				Loamy Sand	few roots
16-20 10YR	4/3 10	00				Loamy Sand	few roots
<sup>1</sup> Type: C=Concentration. D=	Depletion. RM	=Reduced Matrix <sup>2</sup> Loc	ation: PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indicators:		Indicators fo	r Problematio	: Hydric So	oils: <sup>3</sup>		
Histosol or Histel (A1)		Alaska Colo	or Change (TA4	1) <sup>4</sup>		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)		Alaska Alpi	ne swales (TA5	5)		Underlying Layer	
Hydrogen Sulfide (A4)		Alaska Red	ox With 2.5Y H	lue		Other (Explain in Remark	(s)
☐ Thick Dark Surface (A12)		30	. Ch. d l i			and the least of the state of the	A. J.
Alaska Gleyed (A13)			or of nydropnyt priate landscap			nary indicator of wetland hesent	nydrology,
Alaska Redox (A14)			of color change	•	•		
☐ Alaska Gleyed Pores (A15	5)	Give details	or color change	e iii Kemark			
Restrictive Layer (if present):						Undria Cail Breasant	? Yes ○ No •
Type: Depth (inches):						Hydric Soil Present	r tes ∪ No ⊕
HYDROLOGY							
HYDROLOGY Wetland Hydrology Indica	tors:					_Secondary Indi	cators (two or more are required)
							cators (two or more are required) ned Leaves (B9)
Wetland Hydrology Indica		Inundatio	on Visible on A	erial Imagel	ry (B7)	Water Stai	
Wetland Hydrology Indica Primary Indicators (any one i Surface Water (A1) High Water Table (A2)			on Visible on A Vegetated Con	_		☐ Water Stai☐ Drainage F☐ Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Wetland Hydrology Indica Primary Indicators (any one i Surface Water (A1) High Water Table (A2) Saturation (A3)		Sparsely		_		Water Stai Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydrology Indica Primary Indicators (any one i Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Sparsely Marl Dep Hydroger	Vegetated Con osits (B15) n Sulfide Odor	ncave Surfac		Water Stai Drainage F Oxidized R Presence c Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5)
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