WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date:07-Aug-13
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T142_02
	gator(s): WAD, RWM		Landform (h	nillside, terrac	ce, hummocks etc.): Gulch or Gully
-	elief (concave, convex, none): planar				° Elevation: 1319
	ion : Interior Alaska Mountains	l at ·	- · <u> </u>		Long.: -148.259300113 Datum: WGS84
_		Lat	03.0929074	23	
	p Unit Name:		a \\/-	- A N- O	NWI classification: Upland
Are V Are V		significant naturally p wing sai	tly disturbed? problematic?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
	() () () () () () () () () ()		I	s the Sam	pled Area
				within a W	
	Wetland Hydrology Present? Yes O No 🖲	<i>y</i>			
	arks: ETATION -Use scientific names of plants. Li	st all sp		e plot.	Dominance Test worksheet:
	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
1.		0			Total Number of Dominant
2.		0	_		Species Across All Strata: 3 (B)
3.			- 📙		Percent of dominant Species
4.		0	-		That Are OBL, FACW, or FAC: 66.7% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover		_		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cove	er: <u>0</u>	OBL Species x 1 =
1.	Salix polaris	5	✓	FACW	FACW Species <u>15</u> x 2 = <u>30</u>
2.	Dryas octopetala		✓	UPL	FAC Species 69 x 3 = 207
3.		0			FACU Species <u>8</u> x 4 = <u>32</u>
4.					UPL Species <u>5</u> x 5 = <u>25</u>
5.		0			Column Totals: <u>97</u> (A) <u>294</u> (B)
6.					
7.		0			Prevalence Index = B/A = 3.031
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
Her	Total Cover b Stratum 50% of Total Cover:		_ % of Total Cov	ver: 2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Festuca altaica	45	_	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Luzula parviflora	4	_	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.	Arctagrostis latifolia		_	FACW	be present, unless disturbed or problematic.
4.	Anemone richardsonii			FAC	Plot size (radius, or length x width)
5.	Chamerion latifolium		-	FAC	% Cover of Wetland Bryophytes
6.	Sibbaldia procumbens		-	FACU	(Where applicable)
7.	Oxyria digyna		- 📙	FACU	% Bare Ground
8.	Carex microchaeta		-	FAC	Total Cover of Bryophytes5
9.	Artemisia norvegica		-	FACU	
10.	Calamagrostis canadensis		- 🗆	FAC	Hydrophytic
	Total Cover 50% of Total Cover:		_ % of Total Cove	er: <u>17.4</u>	Vegetation Present? Yes ● No ○
Rem	arks:				

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SOIL Sampling Point: SW13_T142_02

Color (moist) % Color (moist) % Color (moist) % Type¹ Loc² Texture Remark	S
1-7 10YR 3/3 100 Sandy Loam organic rich 7-11 7.5YR 3/4 100 Sandy Loam organic rich 11-15 10YR 3/3 100 Coarse Sand 1Type: C=Concentration. D=Depletion. RM=Reduced Matrix 2 Location: PL=Pore Lining. RC=Root Channel. M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Hydrogen Sulfide (A4) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Thick Dark Surface (A12) Alaska Redox (A14) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A1	
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Type: Depth (inches): Hydric Soil Present? Yes No (
Depth (inches):	
	lacksquare
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators: Secondary Indicators (two or more are	required)
Primary Indicators (any one is sufficient) Water Stained Leaves (B9)	
☐ Surface Water (A1) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Drainage Patterns (B10)	
High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living	g Roots (C3)
Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4)	
☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Salt Deposits (C5)	
☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2) ☐ Stunted or Stressed Plants (D1)	
☐ Drift Deposits (B3) ☐ Other (Explain in Remarks) ☐ Geomorphic Position (D2)	
☐ Algal Mat or Crust (B4) ☐ Shallow Aquitard (D3)	
☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4)	
☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5)	
Field Observations: Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No	
Saturation Present? (includes capillary fringe) Yes No Depth (inches):	
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	
Remarks:	
inclinates.	
no hydrology indicators observed	
no hydrology indicators observed	
no hydrology indicators observed	

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