WETLAND DE	TERMINAT	ION DAT	A FORM	- Alaska Region
Project/Site: Susitna-Watana Hydroelectric Project	Borou	ugh/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Jun-12
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW12_T29_14
Investigator(s): SLI, EKJ	Lan	dform (hills	ide, terrac	e, hummocks etc.): Channel (active)
Local relief (concave, convex, none):none	Slo	pe: 8.7	% / 5.0	° Elevation: 700
Subregion : Southcentral Alaska	Lat.: 62.7	867999089)	Long.:148.812889969 Datum: WGS84
Soil Map Unit Name:				NWI classification: PEM2E
	significantly dis naturally proble	turbed? ematic?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No)	ls t		pled Area
community vielded 47 wetland/water and 74 ur	of R3UB strear pland points	n, and SW1	2_T29_13	nmunity is a mosaic of wetlands, waters, and uplands. for interfluve alder thicket. multiple transects through
VEGETATION - Use scientific names of plants. Li	st all specie	s in the p	lot.	
			Indicator	Dominance Test worksheet:
Tree Stratum 1.		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:(A)
2.				Total Number of Dominant Species Across All Strata: 3 (B)
3.				Percent of dominant Species
4.	0			That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
5	0			Prevalence Index worksheet:
Total Cover				Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	_0 20% of T	otal Cover:	0	OBL Species x 1 =
1. Ribes glandulosum			FACU	FACW Species 3 $x^2 = 6$
2	0			FAC Species <u>1</u> x 3 = <u>3</u>
3				FACU Species $2 \times 4 = 8$
4.				UPL Species $0 \times 5 = 0$
5.				Column Totals: <u>8</u> (A) <u>19</u> (B)
6				Prevalence Index = B/A = 2.375
7				Hydrophytic Vegetation Indicators:
9.				Dominance Test is > 50%

7.				0				
8.				0			Hydrophytic Vegetation Indicators:	
9.				0			✓ Dominance Test is > 50%	
10.				0			✓ Prevalence Index is ≤ 3.0	
		Total Cover:	_	1			Morphological Adaptations ¹ (Provide s	supporting data in
Her	b Stratum	50% of Total Cover:(0.5	_ 20% of T	otal Cover:	0.2	Remarks or on a separate sheet)	
1.	Chrysosplenium tetrandrum			2	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹	(Explain)
2.	Calamagrostis canadensis			1		FAC	¹ Indicators of hydric soil and wetland hydro	logy must
3.	Viola palustris			1		FACW	be present, unless disturbed or problematic	
4.	Equisetum palustre			2		FACW	Plot size (radius, or length x width)	_2m x 10m
5.	Moehringia lateriflora			1		FACU	% Cover of Wetland Bryophytes	2111 X 10111
6.				0			(Where applicable)	
7.				0			% Bare Ground	_80
8.				0			Total Cover of Bryophytes	28
9.				0				
10.				0			Hydrophytic	
		Total Cover:		7			Vegetation	
		50% of Total Cover: <u>3</u>	8.5	20% of To	otal Cover:	1.4	Present?Yes \bigcirc No \bigcirc	

Remarks: characterizing PEM seeps / springs / drainages with this point, disregarding alder cover from adjacent upland. thalloid liverworts dominate bryophytes. trace unidentified herbs not recorded above.

Profile Description	tion: (Describe to the depth needed to doo Matrix			onfirm the ab edox Featu		cators)				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
·		·			·					
								-		
				_						
			<u></u>							
			·							
¹ Type: C=Con	centration. D=Depletio	n. RM=Reduc	ced Matrix ² Locatio	n: PL=Por	re Lining. RC	C=Root Cha	annel. M=Matrix			
Hydric Soil In	idicators:		Indicators for P	roblemati	ic Hydric S	oils: ³				
Histosol or Histel (A1)			Alaska Color Change (TA4) ⁴				Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe	edon (A2)		Alaska Alpine	•	,	Г				
Hydrogen S	Sulfide (A4)		Alaska Redox	With 2.5Y I	Hue	V	🖞 Other (Explain in Remarks)			
	Surface (A12)		3 One indicator c	of bydronby	rtic vocetatio	on one pri	many indicator of wetland	hydrology		
Alaska Gley					ohytic vegetation, one primary indicator of wetland hydrology, scape position must be present					
Alaska Red	ox (A14)									
Alaska Gley	yed Pores (A15)		⁴ Give details of o			KS				
Restrictive Laye	r (if present):									
Type:							Hydric Soil Present	t? Yes $ullet$ No $igodom$		
Depth (inch	es):					[
Remarks:										
substrates range	e from organics (low g	rad sections)	to cs-fg (mod grad s	secions).						
no soil pit due te	o standing water throu	inhout site, a	ssume hvdric soil du	e to primar	rv hvdrology	/ indicators	and hydrophytic vegetatio	ın		
	J Starlang Hater and	griour site. au	Sume nyane son aat	, to primary	y nyarolog,	marcato.c	und nyarophytic regetatio			
HYDROLO	GY					-				
	ology Indicators:						Secondary Ind	icators (two or more are required)		
Primary Indicat	cors (any one is sufficie	nt)						ined Leaves (B9)		
✓ Surface W	ater (A1)		Inundation \	Visible on A	Aerial Image	ery (B7)	✓ Drainage	Patterns (B10)		
✓ High Wate	r Table (A2)		Sparsely Veg		-	, , ,	Oxidized F	Oxidized Rhizospheres along Living Roots (C3)		
✓ Saturation			Marl Deposit	-		•	Presence of Reduced Iron (C4)			
🗌 Water Mar	ks (B1)		Hydrogen Su	ulfide Odor	r (C1)		Salt Deposits (C5)			
Sediment I	Deposits (B2)		Dry-Season	Water Tab	le (C2)		Stunted or Stressed Plants (D1)			
🖌 Drift Depo			Other (Expla				Geomorphic Position (D2)			
🗌 Algal Mat d	or Crust (B4)				-		Shallow A	quitard (D3)		
Iron Depos	sits (B5)						Microtopo	graphic Relief (D4)		
Surface So	oil Cracks (B6)						✓ FAC-neutr	al Test (D5)		

Wetland Hydrology Present?

Field Observations:

Yes

No Depth (inches): 2 Surface Water Present? Yes \odot No \bigcirc Water Table Present? Depth (inches): 0 Depth (inches): 0

Saturation Present? $_{\rm Yes} \odot \ _{\rm No} \bigcirc$ (includes capillary fringe)

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

seeps/drainageways w flowing water.

Yes 💿 No 🔾