WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-12							
Applic	ant/Owner: Alaska Energy Authority	Sampling Point: SW12_T40_03										
	igator(s): CTS, EKJ	side, terrac	e, hummocks etc.): Mountainslope									
	relief (concave, convex, none): convex	% / 10.										
			Slope: 62.714187959									
	gion : Interior Alaska Mountains	91										
	ap Unit Name:			0 0	NWI classification: Upland							
	imatic/hydrologic conditions on the site typical for this t	•			(If no, explain in Remarks.)							
, and regional and residence process.												
Are \	Vegetation ☐ , Soil ☐ , or Hydrology ☐	naturally pro	oblematic?	(If nee	eded, explain any answers in Remarks.)							
SUM	MARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes No											
	Hydric Soil Present? Yes ● No C	the Sam	pled Area									
	Wetland Hydrology Present? Yes No		within a Wetland? Yes ○ No ●									
Rem	earks: Fnwws w tall alder understory	2										
	,											
/EG	ETATION Has asiantific names of plants I	مصمالم عمد	-ii									
VEG	ETATION -Use scientific names of plants. L	ist all spe		•	Dominance Test worksheet:							
Tes	ee Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species							
1.		10	✓	FACU	That are OBL, FACW, or FAC: 4 (A)							
2.					Total Number of Dominant							
3.					Species Across All Strata:5(B)							
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)							
5.												
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:							
Sa	pling/Shrub Stratum 50% of Total Cover:	of Total Cover	2	0.00								
					012							
1.				FAC								
2.	· · · · · · · · · · · · · · · · · · ·	15		FACU	FAC Species :####: x3 = 217.2 FACU Species 14.3 x4 = 57.20							
3.	Rosa acicularis	4		FACU	UPL Species 0 x 5 = 0							
4. 5.	Spiraea stevenii	0.1		FACU FAC								
6.	Rhododendron groenlandicum Ribes triste	0.1		FAC	Column Totals: <u>121.8</u> (A) <u>344.5</u> (B)							
7.		0.1		FACU	Prevalence Index = B/A =							
8.		0.1		TACO	Hydrophytic Vocatation Indicators							
9.		- 0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%							
10.		- 0			✓ Prevalence Index is ≤3.0							
10.	Total Cover				Morphological Adaptations (Provide supporting data in							
He	rb Stratum 50% of Total Cover:		of Total Cove	: 5.26	Remarks or on a separate sheet)							
1.	Equisetum arvense	30	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Equisetum sylvaticum	30	<u></u>	FAC	¹ Indicators of hydric soil and wetland hydrology must							
3.	Petasites frigidus	20	✓	FACW	be present, unless disturbed or problematic.							
4.	Rumex arcticus	4		FAC	Diet size (vadius on length v.v.idth)							
5.	Poa macrocalyx	1		FAC	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes 5							
6.	Luzula parviflora	0.1		FAC	% Cover of Wetland Bryophytes (Where applicable)							
0.		0.1		FAC	% Bare Ground							
7.	Geum macrophyllum			FACIL								
	Chamaenerion angustifolium	0.1		FACU	Total Cover of Bryophytes							
7.		0.1		FAC	Total Cover of Bryophytes <u>5</u>							
7. 8.	Chamaenerion angustifolium				Hydrophytic							
7. 8. 9.	Chamaenerion angustifolium Valeriana capitata	0.1 0.1 85.5		FAC OBL								

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SOIL Sampling Point: SW12_T40_03

- 21 0	/= tht		2 22 4				C to alto			1101111. 54412_140_05		
	on: (Describe to	the depth ne Matrix	eded to docur	ment the inc		firm the ab		ators)				
Depth (inches)	Color (moist)		% Co	Color (m	color (moist)		Type ¹	_Loc_ ²	- Texture	Remarks		
0-2			100			<u>%</u>	.,,,,		Fibric Organics	20% roots		
2-5			100						Hemic Organics	20% roots		
5-8	10YR	3/2	100						Silt Loam	7% roots		
8-10	10YR	2/2	90						Loam	rounded gravel to semi rounded cobbles		
				1.0VD	4/4	10			Sandy Loam			
10-17		5/2	90	10YR	4/4	10	C	PL	Salidy Loalii	coarse sand to rounded gravel		
¹Type: C=Con	centration. D=	Depletion.	RM=Reduc	ed Matrix	² Location:	PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil In	ndicators:			Indicat	ors for Pro	blemati	c Hydric So	oils: ³				
Histosol or	Histel (A1)				ka Color Cha		4		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alas	ka Alpine sw	ales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alas	ka Redox W	ith 2.5Y I	Hue		Other (Explain in Remark	(S)		
☐ Thick Dark	Surface (A12))		30						A.A.		
Alaska Gle	yed (A13)						tic vegetation i		mary indicator of wetland h esent	lydrology,		
✓ Alaska Red	` ,			4 Give	letails of col	or chang	e in Remark	· ·c				
☐ Alaska Gle	yed Pores (A15	5)		- Give c	ietalis di coi	or criariy	e iii Keiliair					
Restrictive Laye	er (if present):											
Type: silt l	oam								Hydric Soil Present	? Yes ● No O		
Depth (inch	nes): 5											
Remarks:												
HYDROLO	GY											
Wetland Hydr	rology Indica	tors:							Secondary Indi	cators (two or more are required)		
Primary Indicat	tors (any one i	s sufficient)						Water Stained Leaves (B9)			
Surface W	☐ Inundation Visible on Aerial Imagery (B7)				ry (B7)	Drainage Patterns (B10)						
High Wate	Sparsely Vegetated Concave Surface (B8)				ce (B8)		hizospheres along Living Roots (C3)					
Saturation	Marl Deposits (B15)						f Reduced Iron (C4)					
Water Mai				Hydrogen Sulfide Odor (C1)					☐ Salt Depos			
Sediment Deposits (B2)					y-Season W					Stressed Plants (D1)		
	Drift Deposits (B3)						ırks)		Geomorphic Position (D2)			
l — -	or Crust (B4)								_	uitard (D3)		
☐ Iron Depo	` ,								_	graphic Relief (D4)		
	oil Cracks (B6)							1	✓ FAC-neutra	ll Test (D5)		
Field Observa		Voc (No ●	D.		١.						
Surface Water				De	epth (inches):				0 0		
Water Table P		Yes \bigcirc	No 💿	De	epth (inches):		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre (includes capil		Yes 💿	No \bigcirc	De	epth (inches): 4						
		am naune	monitor we	ll aerial n	hotos previ	ous insne	ection) if ava	ailahle:				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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