SHANNON & WILSON, INC.

APPENDIX C WETLAND FIELD DATA SHEETS

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Data	Point:	of	14
		 	

DATA FORM ROUTINE WEILAND DETERMINATION

Project/Site: Top of World Applicant/Owner: ADOT Investigator: KWalker Bmiller Job#:	Date: 9-11-0Z City: County: State: 4k
Have vegetation, soils, or hydrology been disturbed is the area a potential Problem Area: (If needed, explain on reverse.)	d: Yes No Yes No
VEGETATION	
Dominant Plant Species Stratum & Cover Indicator 1. Ileganism physics & 30 Facas 2. Salix perfections ID Facas 3. Ematrum aigrum IS Facas 4. Pelicularis & 5 5. moss & 60 6. Lileinus & 5 7. Behla mana & 5 8. Salix Plantisis & Cot Facas	
Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species.	7 100
Cowardin Classification: Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit:	Wetland Hydrology Indicators Inundated Saturated in Upper 12 Inches Water Marks Water Lines Sediment Deposits Drainage Patterns in Wetlands Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves
Depth to Saturated Soil: 500 face (in.) Remarks:	Local Soil Survey Data Other (Explain in Remarks)
ANVALUM (B.C)	A Landing A

Data	Point:	ì	Λf	
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Man Hnit	Name:			Drainage Class	N*	•	`
Map Ome	Name.		***************************************	Field Observat	ions	2	** 1 · · · · · · · · · · · · · · · · · ·
Taxonomy	y (Subgroup):	• •	, /xxx .	Confirm Mapp	ed Type?	Yes No	
			<u> </u>		and the second section		
Profile De	scription:		g on the		a ay geografia a sag Tagada ay mada		
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle	• •	2.76 (0.77)	oncretions,	
0-12+	104R 4/3				<u>G 5L</u>	***	- Wilder
*	***************************************	•	· <u></u>				to the same
	4			<u> </u>	TO THE RESERVE TO THE		
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			-			The second secon	
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Hydric So	il Indicators:						
	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Mois Reducing Conditions Gleyed or Low-Chron	} •	Hip Hip Or Lis	ncretions gh Organic Cont ganic Streaking sted on Local Hy sted on National her (Explain in I	ydric Soils Li Hydric Soils	ist	
Remarks:	not hydric	coloratron	`				
:				•		e aproprie	

Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is this Data Point Within a Wetland? Yes No
Remarks: although HeD Slason it is driet	proest no	w perhaps during the growing

DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Taylor Hull. Applicant/Owner: ADOT Investigator: Kwalter Bmiller Job#: Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area: (If needed, explain on reverse.)	State At
Dominant Plant Species Stratum % Cover Indicator 1. **** SPP 40 2. *** SPP 40 3. *** Salix flanifolia 20 20 facu 4. *** Earl 34 from 5. *** Led um groendardis** 10 facu 6. *** Pour 20 7. *** Epilohom anager fillium 8. *** Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). **-Dominant species. Cowardin Classification: Remarks:	Dominant Plant Species Stratum % Cover Indicator
Property of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available Field Observations: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks:	Wetland Hydrology Indicators Inundated Saturated in Upper 12 Inches Water Marks Water Lines Sediment Deposits Drainage Patterns in Wetlands Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data Other (Explain in Remarks)

Map Unit Name: Taxonomy (Subgroup):	Field Observations
Profile Description: Depth Matrix Color Mottle Color (inches) (Munsell Moist) (Munsell Mo	oist) Abundance/Contrast Rhizospheres, etc.
1-2 109R4/4 2-10+ 2.89 3/2	high squad SL
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors	Concretions High Organic Content in Surface Layer Organic Streaking Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)
Remarks:	

Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is this Data Point Within a Wetland? Yes No
Remarks:		
.i.	* + .	

DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Taylor Hydrway Applicant/Owner: ascb/ADST Investigator: Kwalter B. m. Her Job #: Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area: (If needed, explain on reverse.)	Date: 9-11-0 Z City: County: State: _A &
/EGETATION	
Dominant Plant Species Stratum & Cover Indicator 1. Lupltrunnigum h 20 fac 2. Lehing mentanicum S 70 facus 3. Pred cnarrana + 70 facus 4. Vignum ulignisum S 70 fac 5. mosey h 6	Dominant Plant Species Stratum % Cover Indicator 1.
Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. Cowardin Classification:	×100
Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available	Wetland Hydrology Indicators Inundated
Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: 507 64 (in.)	Sediment Deposits Drainage Patterns in Wetlands Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data Other (Explain in Remarks)
Remarks:	

Map Unit	Name:		Drainage Clas	
Тахопоту	y (Subgroup):		Field Observa Confirm Map	tions ped Type? Yes No
Profile De	escription:			
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
	104R2/1			Jeat
	104K3/z		<u> </u>	56
	104 2.5/0	7.57/34	few distinct	fine SL
		· · · · · · · · · · · · · · · · · · ·	. N. N.	
	<u></u>	· · · · · · · · · · · · · · · · · · ·		
<u></u>				The second secon
Hydric So	oil Indicators:			
*	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Mois Reducing Conditions Gleyed or Low-Chron	_	Organic Streaking Listed on Local H	lydric Soils List I Hydric Soils List
Remarks:	· ,			

Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is this Data Point Within a Wetland?	res No
Remarks:			,
Mar		and the second s	
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			amper perment

Data Point: $\underline{4}$ of $\underline{4}$

DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Taylor Itwy Applicant/Owner: ADDT Investigator: Kwalker B Miller Job #:	Date: 9-11-01 City: County: State: Ak
Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area: (If needed, explain on reverse.)	Yes No Yes No
VEGETATION	
Dominant Plant Species Stratum & Cover Indicator 1. Picla Marinan T 20 2. Salix sep S 15 3. Remin Ultiposum & 20 Facul 4. Naccembra Oxycacus b 20 Obl 5. Salix (ditumbent) S 15 6. Lum grocalandicam S 10 Facul 7. Fabilia S 10 8. Miss h 800 Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. Cowardin Classification: Remarks:	Dominant Plant Species Stratum % Cover Indicator 1. Cotendalla 2. 3. 4. 5. 6. 7. 8.
HYDROLOGY	, ······
Recorded Data (Describe in Remarks):Stream, Lake, or Tide GageAerial PhotographOtherNo Recorded Data Available Field Observations:	Wetland Hydrology Indicators Inundated Saturated in Upper 12 Inches Water Marks Water Lines Sediment Deposits
Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: 500 (in.)	Drainage Patterns in Wetlands Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data Other (Explain in Remarks)
Remarks:	

Map Unit	Name:			
Тахопот	y (Subgroup):		Field Observations Confirm Mapped Type? Yes No	
Profile De	escription:			· 8
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Texture, Concretions, Abundance/Contrast Rhizospheres, etc.	
0-10			deemposinginato	4/2
10-16	104R3/1		mode	
16+	10423/1	· · · · · · · · · · · · · · · · · · ·	SC	
	***************************************			1
Hydric So	il Indicators:	***************************************		
<u>×</u> = =	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Mois Reducing Conditions Gleyed or Low-Chron	•	Concretions High Organic Content in Surface Layer Organic Streaking Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)	
Remarks:				
	· ·			

Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is this Data Point Within a Wetland?	Yes No
Remarks:			
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	•		and the second second

Data Point: 5 of 15

DATA FORM ROUTINE WEILAND DETERMINATION

Project/Site: Taylor Itighway Applicant/Owner: 1-00 T Investigator: K. Walter Bmiller Job #:		Date: 9-1/-0 Z City: County: State: ##
Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area: (If needed, explain on reverse.)	Yes No	State: MV
VEGETATION		
Dominant Plant Species Stratum & Cover Indicator 1. John decisions 30 factor 2. Pices mariane 20 factor 3. Debut nana 15 factor 4. Oscilinium Dryancos; 20 Obl 5. Indias 50 - 6. mosses 60 - 7. Carea sep 25 -	Dominant Plant Species Str. 2. 3. 4. 5. 6. 7. 8.	
Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. Cowardin Classification:	2100	
Remarks:		
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available Field Observations: Depth of Surface Water: (in.)	Wetland Hydrology Indicators Inundated Saturated in Upper Water Marks Water Lines Sediment Deposits Oxidized Root Cha 12 Inches	12 Inches in Wetlands
Depth to Free Water in Pit: 7" (in.) Depth to Saturated Soil: 50rface (in.) Remarks:	Water-Stained Leav Local Soil Survey Other (Explain in I	Data
		en.

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Map Unit	Name:		Drainage Class		-
Тахопоту	(Subgroup):		Field Observat Confirm Mapp		ed seg.
Profile De	scription;				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle <u>Abundance/Contrast</u>	Texture, Concretions, Rhizospheres, etc.	
0-7	104R2/1			part	
7+	1043/2	,			
					William Town
				Party Control	
· ·	*	t			
Hydric Soi	il Indicators:				
<u>~</u>	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moi Reducing Condition Gleyed or Low-Chro	S	Concretions High Organic Cont Organic Streaking Listed on Local Hy Listed on National Other (Explain in 1	Hydric Soils List	
Remarks:					
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Hydric Soil	ic Vegetation Present? ls Present? ydrology Present?	Yes No Yes No Yes No	Is this Data P	oint Within a	Wetland	1? (Yea) No	0
Remarks:	•	,	•				
				12 (121) 12 (222)	~*:	الأحمي والحمير والتي	
		•	•				المحاصد

Data Point: b of 4

DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Taylor Hay Applicant/Owner: ADOT Investigator: Kwatter B Miles Job #: Have vegetation, soils, or hydrology been disturbe Is the area a potential Problem Area: (If needed, explain on reverse.)	Yes (No)
Dominant Plant Species Stratum % Cover Indicator 1. Blue fort 2. Astemesta tilesi 3. lieur mertensida 4. lowlys by Ismifena facu 5. Willow 6. 7. 8. Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species.	Dominant Plant Species Stratum % Cover Indicator 1.
Cowardin Classification:	
Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: Surface (in.)	Wetland Hydrology Indicators Inundated Saturated in Upper 12 Inches Water Marks Water Lines Sediment Deposits Drainage Patterns in Wetlands Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data Other (Explain in Remarks)
Remarks:	

Data	Point:	1	of	

Map Unit	Name:		Drainage Clas Field Observa	
Тахопоту	(Subgroup):		Confirm Map	. ,
Profile De	scription:			
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle <u>Abundance/Contrast</u>	Texture, Concretions, Rhizospheres, etc.
0-3	104E41			some organics SL
3-15+	7.54R3/1	none		54
	the contract of the contract o			Charlespanistics in the
			V.	
Hydric So	il Indicators:			
Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors		Organic Streaking Listed on Local H	lydric Soils List Il Hydric Soils List	
Remarks:				No same

Hydric Soils	Vegetation Present? Present? rology Present?	Yes No Yes No Yes No	Is this Data Point Within a Wetland? Yes No	. ′ 、
Remarks:				;
q.v #	e government		and the second of the second o	
		. ,		

Data Point: $\frac{7}{9}$ of $\frac{14}{9}$

DATA FORM ROUTINE WEILAND DETERMINATION

Project/Site: Taylor Hung Applicant/Owner: A 107 Investigator: Kw. Her B M. W. Job #:		Date: <u>9-12-02</u> City: County: State:
Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area: (If needed, explain on reverse.)	: Yes (No) Yes (No)	State: #L
VEGETATION		
Dominant Plant Species Stratum % Cover Indicator 1. Carca 3 ft. 20 2. Moss 60 3. Salita plantfolia 15 factur 4. Salitation Vocastum? 10 factur 5. Ostrus 1 spp 10 6. 7. 8. 7. 7. 8. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	3. 4. 5. 6. 7. 8.	
FACW or FAC (except FAC-). *-Dominant species. Cowardin Classification:	7.100	
Remarks:		
HYDROLOGY	20 Sept. 10	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Syyfexx (in.)	Inundated Saturated in Upper Water Marks Water Lines Sediment Deposits Drainage Patterns Oxidized Root Cha 12 Inches Water-Stained Lea Local Soil Survey Other (Explain in 1	in Wetlands annels in Upper ves Data
Remarks:		

Map Unit Name:		Drainage Class Field Observal	
Taxonomy (Subgroup):		· · · · · · · · · · · · · · · · · · ·	ed Type? Yes No
Profile Description:			
Depth Matrix Color (inches) (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
6-15+ 109K3/2	7.54R 5/4	few diffuse	Sh organiclines

Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors		Concretions High Organic Concording Organic Streaking Listed on Local Hy Listed on National Other (Explain in)	Hydric Soils List
Remarks:			

Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is this Data Po	int Within a	Wetland? (Y	es No
Remarks:		•	-		
<u> </u>				· · · · · · · · · · · · · · · · · · ·	a priema de la companya de la compa
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Data Point: 8 of 14

DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Taylor (two Applicant/Owner: ATONT) Investigator: Kicketer Briller Job#: Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area: (If needed, explain on reverse.)	Yes No State: If I
Dominant Plant Species Stratum % Cover Indicator 1. Bank partial 5 70 factor 2. Salis plantfolia 5 20 factor 3. 4. 5. 6. 7. 8. Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. Cowardin Classification: Remarks:	Dominant Plant Species Stratum % Cover Indicator 1
HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks:	Wetland Hydrology Indicators Inundated Saturated in Upper 12 Inches Water Marks Water Lines Sediment Deposits Drainage Patterns in Wetlands Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data Other (Explain in Remarks)

2.1102

Map Unit	Name:			Drainage Class: Field Observati Confirm Mappe	ons	Yes No	
Profile De		<u></u>		Here were	ing and the second seco	**	
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abunda	nce/Contrast	Texture, C Rhizosphe	Concretions, res, etc.	Tarris e di La arrest e d
<u>O-B+</u>	104R4/4			and the second second	6 S		ong no saka nagga sa - 1
	L	· · · · · · · · · · · · · · · · · · ·					
\$:						emin in the second seco	
		2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		ar .			
Hydric Soi	I Indicators:	· · · · · · · · · · · · · · · · · · ·					
	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moist Reducing Conditions Gleyed or Low-Chron	•	Hig Org Lis Lis	ncretions th Organic Conteganic Streaking ted on Local Hy ted on National l ter (Explain in R	dric Soils L Hydric Soil	ist	
Remarks:							
						to the second se	

Hydrophytic Vegetation Present? Hydric Soils Present? Wes No Yes No Wetland Hydrology Present? Yes No	Is this Data Point Within a Wetland? Yes 16
Remarks: hydrology appears to be new re water- Land heavy rainfall) we the if this is not rectified	cent road changes may impound thand conditions may develop over

Data Point: $\frac{9}{14}$ of $\frac{14}{14}$

DATA FORM ROUTINE WEILAND DETERMINATION

Project/Site: Taylor Highway Applicant/Owner: ADOT Investigator: K Walter, BMH Job#:		Date: <u>9-12-02</u> City: County: State: <u>Ale</u>
Have vegetation, soils, or hydrology been disturbed is the area a potential Problem Area: (If needed, explain on reverse.)	Yes (No)	State: /42
VEGETATION		
Dominant Plant Species Stratum & Cover Indicator 1. Labrador Tea A 20 faew 2. Marray Leef Labra A 50 faew 3. Blueberry & 40 fae 4. Morray 100 5. Salur Planiplia & 20 faew 6. Phea Mariana T 20 faew 7. Larex 50 H 20 8. Estentila fruticesa S 15 FAC Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species.	Dominant Plant Species St. 1. 2. 3. 4. 5. 6. 7. 8.	
Remarks:		-
HYDROLOGY	***************************************	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Surface (in.)	Wetland Hydrology Indicator Inundated Saturated in Upper Water Marks Water Lines Sediment Deposits Drainage Patterns Oxidized Root Cha 12 Inches Water-Stained Lea Local Soil Survey Other (Explain in	in Wetlands annels in Upper ves Data
Remarks:		

OILS						DP-9	
Map Unit Taxonomy	Name:			Drainage C Field Obser Confirm M		Yes No	
Profile De	scription:						
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abund	ance/Contras	Texture,	Concretions, teres, etc.	
0-8	104R 2/2				muck	- w silt	
8-14	104R 3/2 and	3/3			sand	lense	3 5
14+	104R 3/1	****			- byh o	ganic si	It lan
		**************************************	•	<u></u>			s. 42 (1784)
8							
Hydric So.	il Indicators: Histosol Histic Epipedon			ncretions gh Organic O	Content in Sur	face Layer	
Hydric So			Hi Or Lis	gh Organic C ganic Streaki sted on Local sted on Natio	Content in Surf ng Hydric Soils nal Hydric So in Remarks)	List	
	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moist Reducing Conditions		Hi Or Lis	gh Organic C ganic Streaki sted on Local sted on Natio	ng Hydric Soils nal Hydric So	List	
	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moist Reducing Conditions		Hi Or Lis	gh Organic C ganic Streaki sted on Local sted on Natio	ng Hydric Soils nal Hydric So	List	
Remarks:	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moist Reducing Conditions Gleyed or Low-Chron	na Colors	Hi Or Lis	gh Organic C ganic Streaki sted on Local sted on Natio	ng Hydric Soils nal Hydric So	List	
Remarks: Hydrophydric So	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moist Reducing Conditions	na Colors	Hi Or Lis Lis Oth	gh Organic C ganic Streaki sted on Local sted on Natio her (Explain	ng Hydric Soils nal Hydric So	List ils List	No
Remarks: Hydrophydric So	Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moist Reducing Conditions Gleyed or Low-Chron DETERMINATIO tic Vegetation Present?	N Yes No	Hi Or Lis Lis Oth	gh Organic C ganic Streaki sted on Local sted on Natio her (Explain	ng Hydric Soils nal Hydric So in Remarks)	List ils List	No

Data Point: 10 of 14

DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Taylor Hwy Applicant/Owner: ADDT Investigator: K Worker, B Miller Job #: Have vegetation, soils, or hydrology been disturbed	Date: <u>9-12-67</u> City: County: State: <u>AK</u>	
Is the area a potential Problem Area: (If needed, explain on reverse.)		
VEGETATION		
Dominant Plant Species Stratum & Cover Indicator 1. Ealix Alan Folia S - Facus 2. Rica Mariana T 30 facus 3. Carex (acceptation GD facus) 4. Canun Culus gration GD facus 5. Calamagrostis H 30 - Gold 6. Carex Alandar? H 2D obl 7. Norse 2D - Gold 8. In a constant of the constant	Dominant Plant Species St 1.	
Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species.	1100	
Remarks: 65 well and		
	,	
HYDROLOGY		
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available Field Observations: Depth of Surface Water:	Sediment Deposits Drainage Patterns Oxidized Root Cha	12 Inches C" of the Standin wetland in Wetlands
Depth to Free Water in Pit: NOWL (in.) Depth to Saturated Soil: Harface (in.)	12 Inches Water-Stained Lea Local Soil Survey Other (Explain in	Data
Remarks: evidence of previous in un da Some local ponding ~ 6-12.	thon	

Map Unit	Name:		Drainage Class:	-
Тахопоту	y (Subgroup):		Field Observations Confirm Mapped Type? Yes No	
Profile De	escription:			
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Texture, Concretions, Abundance/Contrast Rhizospheres, etc.	
0-6		*************************************	peaty organic	
6-16	104R3/1	se <u>en en e</u>	highly organic isit Train	 خند
				: :: .
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	***	*		
		,		7:
Hydric So	il Indicators:			**.
Histosol Histic Epipedon Sulfidic Odor Probable Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors		3	Concretions High Organic Content in Surface Layer Organic Streaking Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)	
Remarks:				
·	6			۷۰

Hydric Soi	ic Vegetation Present? ls Present? ydrology Present?	Yes No Yes No Yes No	Is this Data Point Within a Wetland? Yes No
Remarks:	water	, , ,	
^	and the second s	.,	and the second of the second o
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DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Taylor Highway Applicant/Owner: ADOT Investigator: Kwalter & miller Job #:	City:
Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area: (If needed, explain on reverse.)	i: Yes No State: 470. Yes No Abore Walker Creek
VEGETATION	
Dominant Plant Species Stratum % Cover Indicator 1. 5phanum 80% oblin 2. Leading Paliptine 20 Factor 3. Day in uniform 15 Factor 4. 5alix Plantfolia 15 Factor 5. Pirea mariana 20 Factor 6. Maccini un ulignosem Factor 7. 8. Percent of Dominant Species that are OBL,	2
FACW or FAC (except FAC-). *-Dominant species. Cowardin Classification:	<u> 1. 100</u>
Remarks:	, · · · · -
IYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available	Wetland Hydrology Indicators Inundated Saturated in Upper 12 Inches Water Marks Water Lines
Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: Surface (in.)	Sediment Deposits Drainage Patterns in Wetlands Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data Other (Explain in Remarks)
Remarks:	

Map Unit Name:			Drainage Clas Field Observa	
Taxonomy (Subgroup):			ped Type? Yes No	
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Remarks: hit per na frost at about 1 water seeping in at \$7"				

Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	Is this Data Point Within a Wetland? Yes No
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Data Point: 12 of 14

DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Taylor Hrahvan Applicant/Owner: A DOT J Investigator: Kwalter & Mlex Job #: Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area:	City:County:
(If needed, explain on reverse.)	
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VEGETATION	
Dominant Plant Species Stratum & Cover Indicator 1. Let la Paph refer T Zo Fac 1 2. Alive Statistics. T. 20 fac 3. Grass Cata magnifis. h. 30 4. 5. 6. 7. 8. Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species.	Dominant Plant Species Stratum % Cover Indicator 1.
Cowardin Classification:	
Remarks:	
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HYDROLOGY Recorded Data (Describe in Remarks):	Wetland Hydrology Indicators
Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available	Inundated Saturated in Upper 12 Inches Water Marks Water Lines
Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: (in.)	Sediment Deposits Drainage Patterns in Wetlands Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data Other (Explain in Remarks)
Remarks:	

Map Unit Name:			Drainage Class: Field Observations Confirm Mapped Type? Yes No		
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4-14	104R3/2			SL	
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Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is this Data Point Within a Wetland? Yes No
Remarks:		
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DATA FORM ROUTINE WETLAND DETERMINATION

Project/Site: Tenfor Hwy Applicant/Owner: ADOT Investigator: Lilling Briller Job #: Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area:	l: Yes No	Date: <u>9-/Z-oz</u> City: County: State: A
(If needed, explain on reverse.)		
VEGETATION		
Dominant Plant Species Stratum & Cover Indicator 1. Latia planifolia 20 5 facus 2. Betula papyrifera 30 T facus 3. Picca marriana 10 T facus 4. Archostaphylas unlaund 40 5 facus 5. Sheplandia consolute 15 5 NI 6. Ledum groent dicca 15 5 facus 7. Veccinium vitasides 30 fa facus 8. Vaccinium vitasides 30 fa facus	Dominant Plant Species St. 1. Equiation accorded for a second of the se	S Paev
Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species.	1.50	
Cowardin Classification:		
Remarks:		
HYDROLOGY	,	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available	Wetland Hydrology Indicators Inundated Saturated in Upper Water Marks Water Lines	12 Inches
Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: (in.)	Sediment Deposits Drainage Patterns Oxidized Root Cha 12 Inches Water-Stained Lea Local Soil Survey Other (Explain in 1	in Wetlands unnels in Upper ves Data
Remarks: dry		v 178 mar pagasa da sa kabasa ka 1940 k

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Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present?	Yes (G) (Yes) No Yes (No)	Is this Data Point Within a Wetland? Yes No
Remarks:		
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DATA FORM ROUTINE WEILAND DETERMINATION

Project/Site: Taylor Hwy Applicant/Owner: ADOT Investigator: Kwalter B. Miller Job #: 21-1- Have vegetation, soils, or hydrology been disturbed Is the area a potential Problem Area:	State Ok and in the land
(If needed, explain on reverse.)	
VEGETATION	
Dominant Plant Species Stratum % Cover Indicator 1. Rehyla dwarf 56 5 2. Mos 5 4.0 h 3. Warry 20 h 4. Poa 70 5 5. Shrolly cinquefoil 70 5 6. 7. 8	Dominant Plant Species Stratum % Cover Indicator 1.
FACW or FAC (except FAC-). *-Dominant species.	
Cowardin Classification:	
Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage Aerial Photograph Other No Recorded Data Available	Wetland Hydrology Indicators Inundated Saturated in Upper 12 Inches Water Marks Water Lines
Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: (in.)	Sediment Deposits Drainage Patterns in Wetlands Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data Other (Explain in Remarks)
Remarks:	

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Map Unit Name: Taxonomy (Subgroup):			Drainage Class: Field Observations Confirm Mapped Type? Yes No		
тахопон	y (Suogroup):		Connrn Map	ped Type? Yes No	
Profile De	escription:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.	
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Remarks:					

Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present?	Yes No Yes No	Is this Data Point Within a	Wetland? Yes No
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APPENDIX D

IMPORTANT INFORMATION ABOUT YOUR WETLAND DELINEATION/MITIGATION AND/OR STREAM CLASSIFICATION REPORT

Attachment to an	part of Report	21-1-12090-001
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Date:	May 16, 2003	
To:	ASCG, Inc.	
	Anchorage, Alaska	

IMPORTANT INFORMATION ABOUT YOUR WETLAND DELINEATION/MITIGATION AND/OR STREAM CLASSIFICATION REPORT

A WETLAND/STREAM REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

Wetland delineation/mitigation and stream classification reports are based on a unique set of project-specific factors. These typically include the general nature of the project and property involved, its size, and its configuration; historical use and practice; the location of the project on the site and its orientation; and the level of additional risk the client assumed by virtue of limitations imposed upon the exploratory program. The jurisdiction of any particular wetland/stream is determined by the regulatory authority(s) issuing the permit(s). As a result, one or more agencies will have jurisdiction over a particular wetland or stream with sometimes confusing regulations. It is necessary to involve a consultant who understands which agency(s) has jurisdiction over a particular wetland/stream and what the agency(s) permitting requirements are for that wetland/stream. To help reduce or avoid potential costly problems, have the consultant determine how any factors or regulations (which can change subsequent to the report) may affect the recommendations.

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Unless your consultant indicates otherwise, your report should not be used:

- If the size or configuration of the proposed project is altered.
- If the location or orientation of the proposed project is modified.
- If there is a change of ownership.
- For application to an adjacent site.
- For construction at an adjacent site or on site.
- Following floods, earthquakes, or other acts of nature.

Wetland/stream consultants cannot accept responsibility for problems that may develop if they are not consulted after factors considered in their reports have changed. Therefore, it is incumbent upon you to notify your consultant of any factors that may have changed prior to submission of our final report.

Wetland boundaries identified and stream classifications made by Shannon & Wilson are considered preliminary until validated by the U.S. Army Corps of Engineers (Corps) and/or the local jurisdictional agency. Validation by the regulating agency(s) provides a certification, usually written, that the wetland boundaries verified are the boundaries that will be regulated by the agency(s) until a specified date, or until the regulations are modified, and that the stream has been properly classified. Only the regulating agency(s) can provide this certification.

MOST WETLAND/STREAM "FINDINGS" ARE PROFESSIONAL ESTIMATES.

Site exploration identifies wetland/stream conditions at only those points where samples are taken and when they are taken, but the physical means of obtaining data preclude the determination of precise conditions. Consequently, the information obtained is intended to be sufficiently accurate for design, but is subject to interpretation. Additionally, data derived through sampling and subsequent laboratory testing are extrapolated by the consultant who then renders an opinion about overall conditions, the likely reaction to proposed construction activity, and/or appropriate design. Even under optimal circumstances, actual conditions may differ from those thought to exist because no consultant, no matter how qualified, and no exploration program, no matter how comprehensive, can reveal what is hidden by earth, rock, and time. Nothing can be done to prevent the unanticipated, but steps can be taken to help reduce their impacts. For this reason, most experienced owners retain their consultants through the construction or wetland mitigation/stream classification stage to identify variances, to conduct additional evaluations that may be needed, and to recommend solutions to problems encountered on site.

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WETLAND/STREAM CONDITIONS CAN CHANGE.

Since natural systems are dynamic systems affected by both natural processes and human activities, changes in wetland boundaries and stream conditions may be expected. Therefore, delineated wetland boundaries and stream classifications cannot remain valid for an indefinite period of time. The Corps typically recognizes the validity of wetland delineations for a period of five years after completion. Some city and county agencies recognize the validity of wetland delineations for a period of two years. If a period of years have passed since the wetland/stream report was completed, the owner is advised to have the consultant reexamine the wetland/stream to determine if the classification is still accurate.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or water fluctuations may also affect conditions and, thus, the continuing adequacy of the wetland/stream report. The consultant should be kept apprised of any such events and should be consulted to determine if additional evaluation is necessary.

THE WETLAND/STREAM REPORT IS SUBJECT TO MISINTERPRETATION.

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Costly problems can occur when plans are developed based on misinterpretation of a wetland/stream report. To help avoid these problems, the consultant should be retained to work with other appropriate professionals to explain relevant wetland, stream, geological, and other findings, and to review the adequacy of plans and specifications relative to these issues.

DATA FORMS SHOULD NOT BE SEPARATED FROM THE REPORT.

Final data forms are developed by the consultant based on interpretation of field sheets (assembled by site personnel) and laboratory evaluation of field samples. Only final data forms customarily are included in a report. These data forms should not, under any circumstances, be drawn for inclusion in other drawings because drafters may commit errors or omissions in the transfer process. Although photographic reproduction eliminates this problem, it does nothing to reduce the possibility of misinterpreting the forms. When this occurs, delays, disputes, and unanticipated costs are frequently the result.

To reduce the likelihood of data form misinterpretation, contractors, engineers, and planners should be given ready access to the complete report. Those who do not provide such access may proceed under the mistaken impression that simply disclaiming responsibility for the accuracy of information always insulates them from attendant liability. Providing the best available information to contractors, engineers, and planners helps prevent costly problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because a wetland delineation/stream classification is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in written transmittals. These are not exculpatory clauses designed to foist the consultant's liabilities onto someone else; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

THERE MAY BE OTHER STEPS YOU CAN TAKE TO REDUCE RISK.

Your consultant will be pleased to discuss other techniques or designs that can be employed to mitigate the risk of delays and to provide a variety of alternatives that may be beneficial to your project.

Contact your consultant for further information.