

**DATA FORM**

**ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)**

Project/Site: Sterling Highway Project MP 45 - 60	Date	9-15-03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Sedge meadow
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID	-
Is the area a potential Problem Area? (If needed, explain on reverse) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID	Plot 21

**Describe Location: Near waypoint a6, north of Sterling Highway**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Carex utriculata</i> *	H	25	OBL	9.			
2. <i>Equisetum variegatum</i>	H	10		10.			
3. <i>Carex aquatilis</i> *	H	35	OBL	11.			
4. <i>Calamagrostis canadensis</i>	H	10		12.			
5 <i>Comarum palustre</i>	H	tr		13.			
6. <i>Equisetum arvense</i>	H	tr		14.			
7. <i>Salix</i> sp.	S	tr		15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **100%**

Remarks :

\* Indicates dominants using 50/20 method.

Describe Vegetation Type: sedge meadow. Willow and horsetails on mounds of higher ground.

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands	
<b>FIELD OBSERVATIONS</b>			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		16	(in)
Depth to Saturated Soil		0	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	

Remarks: Many areas present that had contained standing water in past (dry upon field investigation)

# SOILS

Map Unit Name (Series and Phase):			Drainage Class:		
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO			
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8	Oi				
8-16	Oe				
HYDRIC SOIL INDICATORS:					
<input checked="" type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input checked="" type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input checked="" type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks: There were some small chunks of mineral soil mixed in with histosol. Color = g14/N					
Major root zone: upper 16"					

## WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Wetland Hydrology Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Hydric Soils Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Remarks:		
GPS: Trimble plot 21 Topography: NWI Class: PEM1C HGM Type: flat or depression Photos: yes Functions: see form		





Site: Plot 21

Date: 9/15/03

NWI Class: PEM1C



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(1987 COE Wetlands Delineation Manual)**

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/16/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Sedge meadow
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID	-
Is the area a potential Problem Area? (If needed, explain on reverse) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID	Plot 22

**Describe Location: Near waypoint A2, south of highway.**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Carex utriculata</i> *	H	85	OBL	9.			
2. <i>Comarum palustre</i>	H	tr		10.			
3.				11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **100%**

Remarks :

\* Indicates dominants using 50/20 method.

There is a small area of upland forest adjacent to pond 2. There is an alder, cal can fringe, and open water.

Describe Vegetation Type: sedge meadow

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands	
<b>FIELD OBSERVATIONS</b>			
Depth of Surface Water		0	(in)
Depth to Free Water in Pit		0	(in)
Depth to Saturated Soil		0	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	

Remarks:

# SOILS

Map Unit Name (Series and Phase):			Drainage Class:		
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO			
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3	Oi				
3-10	Oe				
10-16+	A	G2 3/10B			sand
HYDRIC SOIL INDICATORS:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input checked="" type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input checked="" type="checkbox"/> Sulfidic Odor (very strong)		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					
Major root zone:					

# WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Wetland Hydrology Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Hydric Soils Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Remarks:		
GPS: Trimble plot 22 Topography: flat NWI Class: PEM1C HGM Type: pond fringe Photos: yes Functions: see form		











**DATA FORM**

**ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)**

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/16/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Spruce, aspen forest
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID	-
Is the area a potential Problem Area? (If needed, explain on reverse) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID	Plot 26

**Describe Location: near waypoint jc9, off of old Sterling Highway. On slope.**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Picea lutzii</i> *	T	10	NI	9. <i>Linnaea borealis</i>	S	tr	
2. <i>Populus tremuloides</i> *	T	15	FACU	10. <i>Shepherdia canadensis</i> *	S	7	UPL
3. <i>Betula papyrifera</i>	T	5		11.			
4. <i>Salix</i> sp (tree, no catkins)	T	5		12.			
5. <i>Viburnum edule</i> *	S	10	FACU	13.			
6. <i>Geocaulon lividum</i> *	H	10	FACU	14.			
7. <i>Pyrola asarifolia</i>	H	tr		15			
8. <i>Chamerion angustifolium</i>	H	tr		16. feather moss	B	20	

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **0%**

Remarks : Several beetled-killed spruce in plot.  
\* Indicates dominants using 50/20 method.

Describe Vegetation Type: Open spruce, aspen forest.

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	
<b>FIELD OBSERVATIONS</b>			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		N/a	(in)
Depth to Saturated Soil		N/a	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	

Remarks:









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Project/Site: Sterling Highway Project MP 45 - 60	Date	9/16/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	grass opening in willow thicket
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID	-
Is the area a potential Problem Area? (If needed, explain on reverse) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID	Plot 23

**Describe Location: West of A5 in opening, area is similar to wetland 2.**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Calamagrostis canadensis</i> *	H	65	FAC	9.			
2. <i>Salix barclayi</i> *	S	7	FAC	10.			
3. <i>Equisetum pratense</i>	H	10		11.			
4. <i>Sanguisorba stipulata</i>	H	5		12.			
5. <i>Rosa acicularis</i>	S	Tr		13.			
6. <i>Galium trifidum</i>	H	Tr		14.			
7. <i>Picea lutzii</i> *	T	5	NI	15			
8. <i>Comarum palustre</i>	H	5		16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **100%**

Remarks : Several dead spruce in plot  
\* Indicates dominants using 50/20 method.  
Surrounding areas have more willow.

Describe Vegetation Type: open willow, grassland

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands	
<b>FIELD OBSERVATIONS</b>			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		N/a	(in)
Depth to Saturated Soil		0	(in)
		Secondary Indicators (2 or more Required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	

Remarks: Several small, dry drainages in plot.



# SOILS

Map Unit Name (Series and Phase):				Drainage Class:	
Taxonomy (Subgroup)			Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO		
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3	Oi				
3-10	A	7.5YR4/1	7.5YR4/6	Many, distinct, medium	Silt loam
10-23	Oab				
<b>HYDRIC SOIL INDICATORS:</b>					
<input checked="" type="checkbox"/> Histosol (buried)		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					
Major root zone:					

## WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Wetland Hydrology Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Hydric Soils Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Remarks:		
Magpies in plot		
GPS: Trimble plot 23		
Topography:		
NWI Class: PSS1/EM1B (Note: areas surrounding plot have more willow so we are including shrubs in the NWI code).		
HGM Type: flat, depression		
Photos: yes		
Functions:		









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Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID
Is the site significantly disturbed (Atypical Situation)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID
Is the area a potential Problem Area? (If needed, explain on reverse)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID
		Lutz spruce forest
		-
		Plot 24

**Describe Location: Near waypoint A5, south of Sterling Highway**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Picea lutzii</i> *	T	40	NI	9. <i>Achillea millefolium</i>	H	Tr	
2. <i>Viburnum edule</i>	S	Tr		10. <i>Betula papyrifera</i>	T	Tr	
3. <i>Rosa acicularis</i> *	S	5	FACU	11. <i>Salix</i> sp	T	Tr	
4. <i>Linnaea borealis</i> *	S	5	FACU	12. <i>Chamerion angustifolium</i>	H	Tr	
5. <i>Equisetum arvense</i> *	H	20	FACU	13. <i>Heracleum maximum</i>	H	Tr	
6. <i>Gymnocarpium dryopteris</i>	H	5		14. <i>Mertensia paniculata</i>	H	Tr	
7. <i>Calamagrostis canadensis</i>	H	7		15. <i>Galium</i> sp.	H	Tr	
8. <i>Cornus canadensis</i>	H	5		16. <i>Geranium</i> sp.	H	Tr	

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **0%**

Remarks : Many dead spruce trees in plot – beetle kill.  
\* Indicates dominants using 50/20 method.

Describe Vegetation Type: Lutz spruce forest

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<b>WETLAND HYDROLOGY INDICATORS</b>	
<b>FIELD OBSERVATIONS</b>		Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	
Depth of Surface Water	N/a (in)	Secondary Indicators (2 or more Required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	
Depth to Free Water in Pit	N/a (in)		
Depth to Saturated Soil	N/a (in)		

Remarks:



# SOILS

Map Unit Name (Series and Phase):			Drainage Class:		
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO			
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color* (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-9	A	7.5YR3/4 (20%)			loam
		7.5YR3/2 (80%)			
9-16	B	7.5YR3/4 (50%)			Fine sandy loam
		7.5YR3/2 (50%)			
HYDRIC SOIL INDICATORS:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks: Second matrix color in A and B-horizons are streaking. * soil colors taken dry. Major root zone: upper 16"					

## WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Wetland Hydrology Present?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Hydric Soils Present?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Remarks:  GPS: Trimble plot 24 Topography: NWI Class: U HGM Type:U Photos: yes Functions:		









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Project/Site: Sterling Highway Project MP 45 - 60	Date	9/16/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Alder thicket along stream
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID	-
Is the area a potential Problem Area? (If needed, explain on reverse) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID	Plot 27

**Describe Location: Off Juneau Creek Wilderness Alt, no waypoint, east (500') from jc9, in drainage**  
**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Alnus viridis sinuata</i> *	S	55	FAC	9. <i>Ribes</i> sp.	S	tr	
2. <i>Populus balsamifera</i> *	T	8	FACU	10. <i>Oplopanax horridus</i>	H	tr	
3. <i>Rosa acicularis</i>	S	Tr		11. <i>Betula papyrifera</i>	T	tr	
4. <i>Calamagrostis Canadensis</i> *	H	20	FAC	12. <i>Chamerion angustifolium</i>	H	tr	
5. <i>Athyrium filix-femina</i> *	H	5	FAC	13.			
6. <i>Equisetum pratense</i>	H	tr		14.			
7. <i>Gymnocarpium dryopteris</i>	H	tr		15			
8. <i>Aconitum delphiniifolium</i>	H	tr		16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **75%**

Remarks :  
\* Indicates dominants using 50/20 method.

Describe Vegetation Type: alder thicket

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands	
<b>FIELD OBSERVATIONS</b>			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		N/a	(in)
Depth to Saturated Soil		N/a	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	

Remarks: Creek is 2' from plot.

# SOILS

Map Unit Name (Series and Phase):			Drainage Class:		
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO			
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-7	Oi				
7-12	Oe				
12-20	Oa				
HYDRIC SOIL INDICATORS:					
<input type="checkbox"/> Histosol *(see note)		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					
*Although 20" of organic material is present, it is not saturated and therefore not considered hydric.					
Major root zone: upper 12"					

## WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Wetland Hydrology Present? (marginal)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Hydric Soils Present?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Remarks:		
GPS: Trimble plot 27		
Topography:		
NWI Class: U		
HGM Type: U		
Photos: yes		
Functions:		







**DATA FORM**

**ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)**

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/16/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID Alder thicket
Is the site significantly disturbed (Atypical Situation)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID -
Is the area a potential Problem Area? (If needed, explain on reverse)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID Plot 25

**Describe Location:**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Alnus viridis sinuata</i> *	S	45	FAC	9. current sp.	S	tr	
2. <i>Calamagrostis canadensis</i> *	H	40	FAC	10.			
3. <i>Rosa acicularis</i>	S	5		11.			
4. <i>Trientalis europaea</i>	H	Tr		12.			
5. <i>Equisetum pratense</i>	H	7		13.			
6. <i>Betula papyrifera</i> *	T	10	FACU	14.			
7. <i>Comarum palustre</i>	H	tr		15			
8. <i>Picea mariana</i>	T	tr		16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **66%**

Remarks : Adjacent forest to southeast of plot is upland. Several arms of wetland and standing water are present between forest stands. There is a 50' swath of alder drainage that connects ponds.

\* Indicates dominants using 50/20 method.

Describe Vegetation Type: Alder grass thicket

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated* <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands	
<b>FIELD OBSERVATIONS</b>			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		0	(in)
Depth to Saturated Soil		0	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	

Remarks: \* An area 2' from pit is inundated. Many areas of standing and flowing water in plot. Adjacent to creek.

# SOILS

Map Unit Name (Series and Phase):			Drainage Class:		
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO			
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-11	Oi				
11-18	Oe				
18-26	Oa				
<b>HYDRIC SOIL INDICATORS:</b>					
<input checked="" type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input checked="" type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input checked="" type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks: Soil pit is 3 or 4 inches above creek level. At bottom of soil pit there were gravels and rocks.					
Major root zone:					

## WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Wetland Hydrology Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Hydric Soils Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Remarks: Dead black bear in plot – road kill. Wetland is adjacent to fish stream and pond.		
GPS: Trimble plot 25 Topography: NWI Class: PSS1/EM1B HGM Type: Photos: yes Functions: see form		











**DATA FORM**

**ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)**

Project/Site: Sterling Highway Project MP 45 - 60		Date 9/16/03	
Applicant / Owner: ADOT&PF		Borough	KPB
Investigators: JDS & AA		State	AK
Do Normal Circumstances exist on the site?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Alder thicket
Is the site significantly disturbed (Atypical Situation)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID	-
Is the area a potential Problem Area? (If needed, explain on reverse)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID	Plot 28

**Describe Location: No waypoint, in opening near creek, creek could connect to plot 27.**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Alnus viridis sinuata</i> *	S	45	FAC	9. <i>Cornus canadensis</i>	H	tr	
2. <i>Salix</i> sp.	S	Tr		10. <i>Equisetum pratense</i> *	H	15	FACW
3. <i>Chamerion angustifolium</i>	H	5		11. <i>Mertensia paniculata</i>	H	Tr	
4. <i>Sanguisorba stipulata</i>	H	Tr		12. <i>Aconitum delphiniifolium</i>	H	Tr	
5. <i>Athyrium filix-femina</i>	H	5		13. <i>Ribes</i> sp.	S	5	
6. <i>Galium</i> sp.	H	Tr		14.			
7. <i>Rosa acicularis</i>	S	10		15			
8. <i>Calamagrostis canadensis</i> *	H	10	FAC	16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **100%**

Remarks :

\* Indicates dominants using 50/20 method.

Describe Vegetation Type: Alder thicket near creek

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands	
<b>FIELD OBSERVATIONS</b>			
Depth of Surface Water		n/a	(in)
Depth to Free Water in Pit		12	(in)
Depth to Saturated Soil		0	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	

Remarks:

# SOILS

Map Unit Name (Series and Phase):			Drainage Class:		
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO			
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8	Oe				
8-23	Oa				
<b>HYDRIC SOIL INDICATORS:</b>					
<input checked="" type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input checked="" type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input checked="" type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					
Major root zone: upper 8"					

## WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Wetland Hydrology Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Hydric Soils Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Remarks:		
GPS: Trimble plot 28 Topography: NWI Class: PSS1B HGM Type: riverine Photos: yes Functions:		







**DATA FORM**

**ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)**

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/17/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Alder thicket along creek
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID	-
Is the area a potential Problem Area? (If needed, explain on reverse) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID	Plot 29

**Describe Location:**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Alnus viridis sinuata</i> *	S	70	FAC	9. <i>Viburnum edule</i>	S	15	
2. <i>Athyrium filix-femina</i>	H	7		10. <i>Ribes</i> sp.	S	7	
3. <i>Oplopanax horridus</i>	H	7		11. <i>Rubus</i> sp.	S	5	
4. <i>Calamagrostis Canadensis</i> *	H	10	FAC	12. <i>Geranium</i> sp.	H	Tr	
5. <i>Equisetum pratense</i> *	H	15	FACW	13. <i>Viola</i> sp.	H	Tr	
6. <i>Betula papyrifera</i>	T	Tr		14. <i>Gymnocarpium dryopteris</i>	H	Tr	
7. <i>Picea lutzii</i>	T	Tr		15. <i>Galium</i> sp.	H	Tr	
8. <i>Populus balsamifera</i> *	T	15	FACU	16. <i>Streptopus amplexifolius</i>	H	tr	

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **75%**

Remarks :  
\* Indicates dominants using 50/20 method.

Describe Vegetation Type: Alder thicket

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands (see note)
<b>FIELD OBSERVATIONS</b>	
Depth of Surface Water	n/a (in)
Depth to Free Water in Pit	n/a (in)
Depth to Saturated Soil	n/a (in)
	<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)

Remarks: Plot is adjacent to stream.

# SOILS

Map Unit Name (Series and Phase):			Drainage Class:		
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO			
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-7	A	7.5YR2.5/1			loam
7-15	B	7.5YR3/3	7.5YR3/4	Few, faint, fine	Sandy loam
15-16	B/C	7.5YR3/3			Gravelly sandy loam
HYDRIC SOIL INDICATORS:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					
Major root zone: upper 14"					

# WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Wetland Hydrology Present? <b>marginal</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Hydric Soils Present?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Remarks:		
GPS: Trimble plot 28 Topography: flat NWI Class: U HGM Type: upland Photos: yes Functions:		









**DATA FORM**

**ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)**

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/17/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Spruce, birch forest
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID	-
Is the area a potential Problem Area? (If needed, explain on reverse) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID	Plot 30

**Describe Location: Above creek (to south) near waypoint jc6, in spruce forest, off Forest Service Road.**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Picea lutzii</i> *	T	12	NI	9. <i>Cornus canadensis</i>	H	tr	
2. <i>Betula papyrifera</i> *	T	5	FACU	10. <i>Linnaea borealis</i>	S	tr	
3. <i>Vaccinium vitis-idaea</i> *	S	12	FAC	11. <i>Rubus pedatus</i>	H	tr	
4. <i>Pyrola asarifolia</i>	H	Tr		12. <i>Salix tree</i>	T	tr	
5. <i>Geocaulon lividum</i> *	H	10	FACU	13.			
6. <i>Empetrum nigrum</i> *	S	15	FAC	14.			
7. feather moss	B	60		15			
8. <i>Lycopodium annotinum</i> *	H	5	FAC	16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **60%**

Remarks : Several dead and dying spruce in plot (beetle kill)  
\* Indicates dominants using 50/20 method.

Describe Vegetation Type: Open spruce forest

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands	
<b>FIELD OBSERVATIONS</b>			
Depth of Surface Water		n/a	(in)
Depth to Free Water in Pit		n/a	(in)
Depth to Saturated Soil		n/a	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	

Remarks:



# SOILS

Map Unit Name (Series and Phase):			Drainage Class:		
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO			
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3	A	10YR5/2			Loam (hi organic content)
3-6	E	7.5YR6/1			silt
6-8	B1	7.5YR4/6			Sandy loam
8-17	B2	10YR4/4			Silt loam
HYDRIC SOIL INDICATORS:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					
Major root zone:					

## WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Wetland Hydrology Present?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Hydric Soils Present?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Remarks:		
Moose pellets in plot		
GPS: Trimble plot 30		
Topography: flat		
NWI Class: U		
HGM Type: U		
Photos: yes		
Functions: wildlife habitat		





**DATA FORM**

**ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)**

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/17/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & AA	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Alder thicket
Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Transect ID	-
Is the area a potential Problem Area? (If needed, explain on reverse) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Plot ID	Plot 31

**Describe Location: Thicket south of waypoint jc4**

**VEGETATION**

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Alnus viridis sinuata</i> *	S	55	FAC	9. <i>Sanguisorba stipulata</i>	H	Tr	
2. <i>Spirea stevenii</i>	S	5		10. <i>Equisetum pratense</i> *	H	15	FACW
3. <i>Picea lutzii</i> *	T	8	NI	11. <i>Linnaea borealis</i>	S	Tr	
4. <i>Calamagrostis canadensis</i> *	H	20	FAC	12. <i>Chamerion angustifolium</i>	H	tr	
5. <i>Lycopodium annotinum</i>	H	Tr		13.			
6. <i>Betula papyrifera</i>	T	Tr		14.			
7. <i>Vaccinium vitis-idaea</i>	S	Tr		15			
8. <i>Rubus pedatus</i>	H	tr		16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **100%**

Remarks : Several dead spruce in plot – beetle kill.  
\* Indicates dominants using 50/20 method.

Describe Vegetation Type: alder thicket

**HYDROLOGY**

<input checked="" type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available		<p align="center"><b>WETLAND HYDROLOGY INDICATORS</b></p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands	
<b>FIELD OBSERVATIONS</b>			
Depth of Surface Water		n/a	(in)
Depth to Free Water in Pit		n/a	(in)
Depth to Saturated Soil		0	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)	

Remarks:

# SOILS

Map Unit Name (Series and Phase):			Drainage Class:		
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type? <input type="checkbox"/> YES <input type="checkbox"/> NO			
PROFILE DESCRIPTION					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3	Oi				
3-7	Oe				
7-21	Oa				
HYDRIC SOIL INDICATORS:					
<input checked="" type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input checked="" type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input checked="" type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					
Major root zone: upper 7"					

## WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Wetland Hydrology Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Hydric Soils Present?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Remarks:		
GPS: Trimble plot 31 Topography: flat NWI Class: PSS1/EM1B HGM Type: riverine Photos: yes Functions: flood water retention, habitat, nutrient cycling, stream flow regulation, water quality.		