



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	Hemlock, spruce 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 32

Describe Location: Along JC Alt, near waypoint jc3, upland off Forest Service Road

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Tsuga mertensiana</i> *	T	25	FAC	9. <i>Rubus pedatus</i>	H	5	
2. <i>Menziesia ferruginea</i> *	S	40	FACU	10. <i>Lupinus nootkatensis</i>	H	5	
3. <i>Betula papyrifera</i>	T	5		11. <i>Sanguisorba stipulata</i>	H	Tr	
4. <i>Picea lutzii</i>	T	7		12. <i>Linnaea borealis</i>	S	tr	
5. <i>Viburnum edule</i>	S	Tr		13. <i>Cornus canadensis</i>	H	tr	
6. <i>Chamerion angustifolium</i> *	H	15	FACU	14. <i>Vaccinium vitis-idaea</i>	H	tr	
7. <i>Calamagrostis Canadensis</i> *	H	20	FAC	15. <i>Trientalis europaea</i>	H	tr	
8. <i>Gymnocarpium dryopteris</i>	H	10		16. <i>Pyrola asarifolia</i>	H	tr	
				17. <i>Lycopodium annotinum</i>	H	tr	

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **50%**

Remarks : Some cut down trees in plot
* Indicates dominants using 50/20 method.

Describe Vegetation Type: Hemlock spruce upland 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">WETLAND HYDROLOGY INDICATORS</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	
FIELD OBSERVATIONS			
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.
0-2	A	7.5YR3/2			Loam
2-3	E	7.5YR6/1			Silt loam
3-10	B	10YR4/4			Loam
10-23	C	10YR4/4			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:					
*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 32		
Topography:		
NWI Class: Upland		
HGM Type:		
Photos: yes		
Functions:		

Site: Plot 32

Date: 9/17/03

NWI Class: Upland



Site: Plot 32

Date: 9/17/03

NWI Class: Upland



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, alder 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 33

Describe Location: 10 metres east of waypoint n5.

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Equisetum pratense</i> *	H	70	FACW	9. monkshood sp.	H	Tr	
2. <i>Empetrum nigrum</i>	S	7		10. <i>Sanguisorba stipulata</i>	H	Tr	
3. <i>Vaccinium oxycoccos</i>	S	Tr		11. <i>Picea glauca</i> *	T	10	FACU
4. <i>Linnaea borealis</i>	S	Tr		12. <i>Salix barclayi</i>	S	Tr	
5. <i>Potentilla fruticosa</i>	S	8		13. <i>Cornus canadensis</i>	H	Tr	
6. <i>Ledum palustre decumbens</i> *	S	10	FACW	14. <i>Calamagrostis canadensis</i>	H	Tr	
7. <i>Rosa acicularis</i>	S	Tr		15. Carex sp.	H	Tr	
8. <i>Vaccinium vitis-idaea</i>	S	6		16. Grass sp.	H	Tr	
				17. <i>Alnus viridis sinuata</i> *	S	15	FAC
				18. <i>Picea mariana</i> *	T	20	FACW

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **80%**

Remarks : * Indicates dominants using 50/20 method.

Describe Vegetation Type: White and black spruce and alder. Several dead spruce in plot.

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">WETLAND HYDROLOGY INDICATORS</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	
FIELD OBSERVATIONS			
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				
3-8	Oe				
8-16	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 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 33 Topography: NWI Class: PFO4/SS1/EM2B HGM Type: flat Photos: yes Functions:		



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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9-18-03
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 34

Describe Location: In alder thicket near waypoint g1

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>Calamagrostis canadensis</i> *	H	25	FAC	10. <i>Viola</i> sp.	H	Tr	
3. <i>Polemonium</i> sp.(tall)	H	5		11. <i>Streptopus amplexifolius</i>	H	Tr	
4. <i>Athyrium filix-femina</i>	H	Tr		12. <i>Sambucus racemosa</i>	S	Tr	
5. <i>Picea lutzii</i> *	T	5	NI	13. <i>Rosa acicularis</i>	S	Tr	
6. <i>Equisetum pretense</i> *	H	30	FACW	14. <i>Cornus canadensis</i>	H	Tr	
7. <i>Ribes</i> sp.	S	Tr		15. <i>Chamerion angustifolium</i>	H	Tr	
8. <i>Polemonium</i> sp.(small)	H	tr		16. <i>Rubus spectabilis</i>	S	Tr	
				17. <i>Galium triflorum</i>	H	tr	

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

Remarks : some dead spruce in plot
* 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">WETLAND HYDROLOGY INDICATORS</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 type="checkbox"/> Drainage Patterns in Wetlands	
FIELD OBSERVATIONS			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		15	(in)
Depth to Saturated Soil		0	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input checked="" 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.
0-23	Oi				
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 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 6"					

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 34 Topography: NWI Class: PSS1/EM2B HGM Type: flat Photos: yes Functions: see function form		



Site: Plot 34

Date: 9/18/03

NWI Class: PSS1/EM2B



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Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & LR	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Sedge and grass 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 39

Describe Location:

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Picea mariana</i>	T	tr		9. <i>Calamagrostis canadensis</i>	H	7	
2. <i>Betula nana</i> *	S	6	FAC	10. <i>Carex</i> sp	H	10	
3. <i>Salix barclayi</i>	S	tr		11. <i>Comarum palustre</i>	H	tr	
4. <i>Empetrum nigrum</i>	S	tr		12. <i>Equisetum arvense</i>	H	r	
5. <i>Ledum palustre decumbens</i>	S	tr		13. <i>Rubus chamaemorus</i>	S	tr	
6. <i>Alnus viridis sinuata</i> *	S	10	FAC	14. <i>Sphagnum</i> moss	B	85	
7. <i>Vaccinium vitis-idaea</i>	S	tr		15. <i>Eriphorum chamissonis</i>	H	10	
8. <i>Eriphorum angustifolium</i> *	H	30	OBL	16. <i>Chamaedaphne calyculata</i>	S	tr	
				17. <i>Carex pauciflora</i>	H	tr	

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.

Describe Vegetation Type: Sedge, cottongrass 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">WETLAND HYDROLOGY INDICATORS</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	
FIELD OBSERVATIONS			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		10	(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.
0-9	Oi				
9-16	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 (v. mild)		<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: large rock at 10".					
Major root zone: upper 10"					

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 39 Topography: flat NWI Class: PEM1C HGM Type: flat Photos: Functions: see function form		





DATA FORM

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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/18/03
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	Black spruce wetland
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 35

Describe Location: Along G alt, northeast of waypoint g1, on waypoint, and no Trimble reading

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Picea mariana</i> *	T	40	FACW	9. <i>Equisetum pratense</i> *	H	15	FACW
2. <i>Empetrum nigrum</i> *	S	20	FAC	10. <i>Equisetum sylvaticum</i>	H	tr	
3. <i>Salix sp.</i>	S	Tr		11.			
4. <i>Ledum palustre decumbens</i> *	S	25	FACW	12.			
5. <i>Betula nana</i>	S	Tr		13.			
6. <i>Vaccinium vitis-idaea</i>	S	5		14.			
7. <i>Vaccinium alakaense</i>	S	Tr		15.			
8. <i>Equisetum arvense</i> *	H	15	FACU	16. <i>Spahgnum moss</i>	B	tr	

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 80%

Remarks :
* Indicates dominants using 50/20 method.

Describe Vegetation Type: Black spruce wetland

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">WETLAND HYDROLOGY INDICATORS</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 type="checkbox"/> Drainage Patterns in Wetlands	
FIELD OBSERVATIONS			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		N/a	(in)
Depth to Saturated Soil		3	(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:

Site: Plot 35

Date: 9/18/03

NWI Class: PFO4/SS1/EM2B



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Project/Site: Sterling Highway Project MP 45 - 60	Date	9/18/03
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
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
		Black spruce wetland
		-
		Plot 36

Describe Location:

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>see form for plot 35</i>				9.			
2. <i>plus:</i>				10.			
3. <i>Rubus chamaemorus</i>	H	Tr		11.			
4.				12.			
5.				13.			
6.				14.			
7.				15.			
8.				16.			

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

Remarks :
* Indicates dominants using 50/20 method.

Describe Vegetation Type: Same vegetation as pot 35 – black 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">WETLAND HYDROLOGY INDICATORS</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	
FIELD OBSERVATIONS			
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:



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(1987 COE Wetlands Delineation Manual)**

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: BPB & AA	State	AK
Do Normal Circumstances exist on the site?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID Hemlock 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 40

Describe Location: Near waypoint JC08.

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Tsuga mertensiana</i> *	T	40	FAC	9. <i>Orthilia secunda</i> *	H	7	FACU
2. <i>Picea lutz</i> *	T	15	NI	10. <i>Equisetum sylvaticum</i>	H	tr	
3. <i>Menziesia ferruginea</i> *	S	40	FACU	11.			
4. <i>Vaccinium vitis-idaea</i>	S	5		12.			
5. <i>Empetrum nigrum</i>	S	5		13.			
6. <i>Rubus pedatus</i> *	H	5	FAC	14.			
7. <i>Cornus canadensis</i>	H	tr		15			
8. <i>Geocaulon lividum</i> *	H	7	FACU	16.			

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **33%**

Remarks :
* Indicates dominants using 50/20 method.

Describe Vegetation Type: hemlock 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">WETLAND HYDROLOGY INDICATORS</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	
FIELD OBSERVATIONS			
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.
4-0	Oi				
0-3	A				
3-8	B1	7.5YR 4/1 (60%)			Loam
		10YR 4/4 (40%)			
8-13	B2	10 YR 3/4			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: Varying size rocks in B1 and B2 (many). Soil colors taken dry.					
Major root zone: upper 6"					

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: moose pellets and 2 gray jays		
GPS: garmin plot jc01		
Topography:		
NWI Class: U		
HGM Type: U		
Photos: yes		
Functions:		



ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/18/03
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 floodplain
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 38

Describe Location: Along G alt, no waypoint, on Juneau Creek floodplain. Approx 50' west of Juneau Creek. Site flagged with wetland flagging to mark artifact site.

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Alnus viridis sinuata</i> *	S	55	FAC	9. <i>Polemonium</i> sp.	H	tr	
2. <i>Calamagrostis Canadensis</i> *	H	50	FAC	10. <i>Thalictrum sparsiflorum</i>	H	tr	
3. <i>Salix barclayi</i>	S	5		11. <i>Heracleum maximum</i>	H	tr	
4. <i>Salix alaxensis</i>	S	tr		12. <i>Ribes</i> sp.	S	tr	
5. <i>Artemisia tilesii</i>	H	tr		13. <i>Equisetum pratense</i>	H	10	
6. <i>Mertensia paniculata</i>	H	tr		14.			
7. <i>Picea lutzii</i>	T	tr		15			
8. <i>Oplopanax horridus</i>	H	5		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

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">WETLAND HYDROLOGY INDICATORS</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 checked="" type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands (several)	
FIELD OBSERVATIONS			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		N/a	(in)
Depth to Saturated Soil		5	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input checked="" 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: Topography is generally flat. Many drainages present with evidence of past flooding events.

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.
0-13	A	10YR3/1			Fine sand with gravels
13-19	B	10YR3/1			Sandy loam (more gravels and larger colluvial deposits)
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 checked="" type="checkbox"/> Gleyed or Low-Chroma Colors			<input type="checkbox"/> Other (Explain in Remarks)		
<p>Remarks: B horizon has 1" diameter rocks and larger throughout. Artifact found at 13" in soil pit, no other artifacts or surface features observed in or around study plot. No redox features found in soil pit – is the site too active as floodplain to show redox features?</p> <p>Major root zone: upper 12".</p>					

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	
<p>Remarks:</p> <p>GPS: Very poor GPS reception – used small garmin gps. Site is approx. 50' west of Juneau Creek.</p> <p>Topography:</p> <p>NWI Class: PSS1/EM2B</p> <p>HGM Type: riverine</p> <p>Photos: yes</p> <p>Functions: Evidence of moose browse, game trail in plot, bear scat, spawning salmon in Juneau Creek. Floodplain functions.</p>		

Site: Plot 38

Date: 9/18/03

NWI Class: PSS1/EM2B





DATA FORM

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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & LR	State	AK
Do Normal Circumstances exist on the site?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID forested wetland
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 41

Describe Location: Near waypoint F4 along JCF alt.

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Picea lutzii</i> *	T	30	NI	9. <i>Rubus chamaemorus</i>	S	tr	
2. <i>Alnus viridis sinuata</i> *	S	55	FAC	10. tufted sedge (c)*	H	35	Assumed FAC or wetter
3. <i>Salix barclayi</i> *	S	25	FAC	11. cottongrass single	H	5	
4. <i>Sanguisorba stipulata</i>	H	5		12. <i>Cornus canadensis</i>	H	5	
5. <i>Betula papyrifera</i>	T	Tr		13. <i>Vaccinium vitis-idaea</i>	S	5	
6. <i>Spireaea stevenii</i> *	S	25	FAC	14. <i>Ledum palustre decumbens</i>	S	5	
7. <i>Calamagrostis canadensis</i>	H	7		15 <i>Equisetum pratense</i>	H	tr	
8. <i>Comarum palustre</i>	H	tr		16.			

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

Remarks :

* Indicates dominants using 50/20 method.

Describe Vegetation Type:

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">WETLAND HYDROLOGY INDICATORS</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	
FIELD OBSERVATIONS			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		n/a	(in)
Depth to Saturated Soil		3	(in)
		<p>Secondary Indicators (2 or more Required):</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input checked="" type="checkbox"/> Water-Stained Leaves (potential) <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.
0-7	Oi				
7-14	Oe				
14-20	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 11"					

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 41 Topography: flat NWI Class: PFO4/SS1/EM1B HGM Type: flat Photos: Functions: see function form		





DATA FORM

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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: BPB & 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 42

Describe Location: Near waypoint JC 06.

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Betula nana</i> *	S	12	FAC	9. <i>Platanthera dilatata</i>	H	tr	
2. <i>Ledum palustre decumbens</i> *	S	7	FACW	10. cottongrass sp.	H	8	
3. <i>Andromeda polifolia</i>	S	5		11. <i>Pedicularis</i> sp. (dead)	H	5	
4. <i>Vaccinium oxycoccos</i>	S	5		12.			
5. <i>Carex pauciflora</i> *	H	40	OBL	13.			
6. <i>Carex aquatilis</i>	H	15		14.			
7. <i>Carex</i> sp. <i>wirey</i> *	H	20	Assumed FAC or wetter	15			
8. <i>Carex</i> sp.	H	5		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 with shrubby higher mounds

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">WETLAND HYDROLOGY INDICATORS</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 type="checkbox"/> Drainage Patterns in Wetlands	
FIELD OBSERVATIONS			
Depth of Surface Water		N/a	(in)
Depth to Free Water in Pit		6	(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: See areas where water may be standing earlier in the year. Low areas with mud at surface and little to no veg. Higher mounds have PSS1, lower areas dominated by PEM1.





DATA FORM

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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & LR	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Open spruce 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 43

Describe Location: Near waypoint F3, along JCF alt.

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Picea lutzii</i> *	T	35	NI	9. <i>Empetrum nigrum</i>	S	7	
2. <i>Tsuga mertensiana</i>	T	7		10. <i>Rubus pedatus</i> *	H	5	FAC
3. <i>Salix</i> sp.	T	7		11. <i>Vaccinium vitis-idaea</i>	S	Tr	
4. <i>Alnus viridis sinuata</i>	S	5		12. <i>Orthilia secunda</i>	H	Tr	
5. <i>Menziesia ferruginea</i> *	S	40	FACU	13. <i>Linnaea borealis</i>	S	Tr	
6. <i>Chamerion angustifolium</i> *	H	5	FACU	14. <i>Sorbus sitchensis</i>	T	Tr	
7. <i>Geocaulon lividum</i>	H	Tr		15. <i>Lycopodium annotinum</i>	H	Tr	
8. <i>Cornus canadensis</i>	H	Tr		16. <i>Vaccinium</i> sp.	S	Tr	
				17. <i>Betula papyrifera</i>	T	tr	

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **33%**

Remarks :

* Indicates dominants using 50/20 method.

Describe Vegetation Type: open spruce forest with rusty menz. understory

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">WETLAND HYDROLOGY INDICATORS</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	
FIELD OBSERVATIONS			
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.
0-8	A	7.5YR 4/1			Loam
8-15	B	10YR 3/3			Sandy loam
15-18	C	2.5Y4/3			Silt loam with gravels
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: Soil colors taken dry 16" to bottom were large rocks 10" + Major root zone: 10"					

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: Moose pellets in plot GPS: Trimble plot 43 Topography: NWI Class: U HGM Type: U Photos: yes Functions:		



Site: Plot 43

Date: 9/19/03

NWI Class: Upland



DATA FORM

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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & LR	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Shrub bog
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 44

Describe Location: South of waypoint JCA1 in shrubby wetland

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Myrica gale</i> *	S	40	OBL	9. <i>grass sp. little</i>	H	tr	
2. <i>Dasiphora floribunda</i> *	S	45	FAC	10. <i>Chamaedaphne calyculata</i>	S	tr	
3. <i>Betula nana</i>	S	tr		11.			
4. <i>Picea mariana</i> *	T	15	FACW	12.			
5. <i>Salix barclayi</i>	S	5		13.			
6. <i>Andromeda polifolia</i>	S	tr		14.			
7. <i>Carex sp.</i>	H	tr		15			
8. <i>Equisetum pratense</i>	H	tr		16. feather moss	B	25	

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

Remarks :

* Indicates dominants using 50/20 method.

Describe Vegetation Type: shrub bog

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">WETLAND HYDROLOGY INDICATORS</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 (several dry channels)	
FIELD OBSERVATIONS			
Depth of Surface Water			N/a (in)
Depth to Free Water in Pit			N/a (in)
Depth to Saturated Soil			5 (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.
0-7	Oi				
7-7.5	Sand				sand
7.5-14.5	Oe				
14.5-18	Oa				Silt loam
18-23	A	7.5 YR 2.5/1			
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 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: Very strange sand deposit between Oi and Oe – wind placement?					
Major root zone: 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 44 Topography: flat NWI Class: PSS1B HGM Type: flat Photos: see form Functions:		

Site: Plot 44

Date: 9/19/03

NWI Class: PSS1B





DATA FORM

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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: BPB & AA	State	AK
Do Normal Circumstances exist on the site?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID Spruce willow upland
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 45

Describe Location: Near waypoint JCA 3

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Picea lutzii</i> *	T	20	NI	9. <i>Empetrum nigrum</i>	S	10	
2. <i>Picea mariana</i> *	T	15	FACW	10. <i>Vaccinium vitis-idaea</i>	S	7	
3. <i>Tsuga mertensiana</i>	T	Tr		11. <i>Orthilia secunda</i> *	H	7	FAC
4. <i>Salix barclayi</i>	S	25		12. <i>Cornus canadensis</i> *	H	5	FACU
5. <i>Betula nana</i> *	S	20	FAC	13. <i>Festuca rubra</i> *	H	5	FAC
6. <i>Ledum palustre decumbens</i>	S	8		14. <i>Calamagrostis canadensis</i> *	H	5	FAC
7. <i>Vaccinium uliginosum</i> *	S	30	FAC	15. <i>Populus tremuloides</i>	T	tr	
8. <i>Chamerion angustifolium</i> *	H	5	FACU	16. <i>Calamagrostis canadensis</i>	H	tr	
				17. <i>Lycopodium annotinum</i>	H	tr	

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

Remarks : Feather moss ~ 15%

* Indicates dominants using 50/20 method.

Describe Vegetation Type: spruce/willow

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		WETLAND HYDROLOGY INDICATORS	
FIELD OBSERVATIONS		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.
0-4	A	7.5 YR 3/2			Loam
4-8	B1	10YR 3/4			Silt loam
8-16	B2	10YR 4/2			Sandy clay
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: *Soil colors taken dry Gravel in B2. Major root zone: 4"					

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: Well defined game trails. Moose pellets in plot. GPS: Topography: flat NWI Class: Upland HGM Type: Photos: Functions:		





DATA FORM

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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: BPB & AA	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Spruce/willow wetland
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 46

Describe Location: South of JCA 1

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Picea mariana</i> *	T	40	FACW	9. <i>Calamagrostis canadensis</i> *	H	10	FAC
2. <i>Salix commutata</i> *	S	25	FAC	10. <i>Sanguisorba stipulata</i>	H	5	
3. <i>Salix barclayi</i> *	S	10	FAC	11. <i>Cornus canadensis</i>	H	Tr	
4. <i>Alnus viridis sinuata</i> *	S	15	FAC	12. <i>Equisetum arvense</i> *	H	20	FACU
5. <i>Vaccinium uliginosum</i> *	S	10	FAC	13. <i>Linnaea borealis</i>	S	Tr	
6. <i>Vaccinium vitis-idaea</i>	S	5		14. <i>Empetrum nigrum</i>	S	5	
7. <i>Orthilia secunda</i>	H	Tr		15. <i>Betula nana</i>	S	8	
8. <i>Rubus pedatus</i>	H	5		16. <i>Spirea stevenii</i>	S	5	

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **87.5 %**

Remarks : Several dead spruce in plot = 15% (5% = dead and down and 10% dead).

* Indicates dominants using 50/20 method.

Describe Vegetation Type: Black spruce, willow wetland

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		WETLAND HYDROLOGY INDICATORS	
FIELD OBSERVATIONS		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	
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	2 (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.
0-7	Oi				
7-14	Oe				
14-17	Oa				
17-19	B	7.5 YR 4/1	2.5 YR 3/4	Few, medium , prom	Silt with rocks and gravels
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 (slight)		<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:					

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:		
Topography: flat		
NWI Class: PFO4/SS1B		
HGM Type: flat		
Photos:		
Functions:		





DATA FORM

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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: JDS & LR	State	AK
Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID	Open spruce 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 47

Describe Location: Along JCA Alt, near waypoint JCA 4

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Vaccinium uliginosum</i> *	S	30	FAC	9. <i>Calamagrostis canadensis</i> *	H	5	FAC
2. <i>Ledum palustre decumbens</i> *	S	33	FACW	10. <i>Betula nana</i>	S	7	
3. <i>Empetrum nigrum</i>	S	15		11. <i>Chamerion angustifolium</i>	H	Tr	
4. <i>Vaccinium vitis-idaea</i>	S	Tr		12. <i>Rubus pedatus</i>	H	Tr	
5. <i>Salix barclayi</i>	S	10		13. <i>Cornus canadensis</i>	H	Tr	
6. <i>Salix</i> sp. tall	T	Tr		14. <i>Geocaulon lividum</i>	H	Tr	
7. <i>Picea lutzii</i> *	T	10	NI	15. <i>Lycopodium annotinum</i>	H	Tr	
8. <i>Picea mariana</i> *	T	10	FACW	16. <i>Spirea stevenii</i>	S	tr	

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

Remarks :
* Indicates dominants using 50/20 method.

Describe Vegetation Type:

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">WETLAND HYDROLOGY INDICATORS</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	
FIELD OBSERVATIONS			
Depth of Surface Water		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)
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.
0-5	Oi				
5-6	A	7.5YR 2.5/1			loam
6-11	B1	10YR 4/3	7.5YR 3/4	Common, medium, faint	Silty clay loam
11-17	B2	10YR 4/2			Clay 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: Very thin sand layer underneath Oi horizon, placement by wind action. Gravels in B1; B2 has gravels and small cobbles.					
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, game trail in plot.		
GPS: Trimble 47		
Topography:		
NWI Class: U		
HGM Type:		
Photos:		
Functions:		

Site: Plot 47

Date: 9/19/03

NWI Class: U





DATA FORM

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

Project/Site: Sterling Highway Project MP 45 - 60	Date	9/19/03
Applicant / Owner: ADOT&PF	Borough	KPB
Investigators: BPB & AA	State	AK
Do Normal Circumstances exist on the site?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Community ID 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 48

Describe Location: Near waypoint JCA 5

VEGETATION

Plant Species	Stratum	%	Indicator	Plant Species	Stratum	%	Indicator
1. <i>Populus tremuloides</i> *	T	40	FACU	9. <i>Viburnum edule</i> *	S	5	FACU
2. <i>Picea lutzii</i>	T	10		10. <i>Veratrum viride</i>	H	8	
3. <i>Picea mariana</i>	T	5		11. <i>Lupinus</i> sp.	H	Tr	
4. <i>Betula nana</i> *	S	5	FAC	12. <i>Spireaea stevenii</i>	S	Tr	
5. <i>Orthilia secunda</i>	H	5		13. <i>Rubus pedatus</i>	H	5	
6. <i>Pyrola asarifolia</i>	H	5		14. <i>Linnaea borealis</i>	S	Tr	
7. <i>Chamerion angustifolium</i>	H	8		15. <i>Vaccinium vitis-idaea</i> *	S	5	FAC
8. <i>Dryopteris dilatata</i> *	H	20	FACU	16. <i>Calamagrostis canadensis</i> *	H	60	FAC

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) **57%**

Remarks : Salix sp – 5%, Sangisorba sitchensis – trace, Vaccinium ulig – 7%*(FAC), streptopus amplexifolia – 5%, Lycopodium annotinum – 15%.

* Indicates dominants using 50/20 method.

Describe Vegetation Type: 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		WETLAND HYDROLOGY INDICATORS	
FIELD OBSERVATIONS		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.
0-3	A	7.5 YR 3/2			Loam
3-5	E	7.5 YR 6/1			Silt loam
5-8	Bs	10YR 5/8			Silt loam
8-19	B	2.5 Y 5/4			Silt loam with gravels
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: spodosol * soil colors taken dry					
Major root zone: 8"					

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:		
Topography:		
NWI Class: Upland		
HGM Type: upland		
Photos:		
Functions:		

Site: Plot 48

Date: 9/19/03

NWI Class: Upland

