

APPENDIX C
WETLAND FIELD DATA SHEETS

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Top of World</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>Kwaller B Miller</u> Job #: _____	Date: <u>9-11-02</u> City: _____ County: _____ State: <u>Ak</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	<u>m 1.3 from border</u>

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Utricularia</u>		<u>30</u>	<u>FAC</u>	1. _____			
2. <u>Salix</u>		<u>10</u>	<u>FAC</u>	2. _____			
3. <u>Empetrum nigrum</u>		<u>15</u>	<u>FAC</u>	3. _____			
4. <u>Pedicularis</u>		<u>25</u>	—	4. _____			
5. <u>Moss</u>		<u>60</u>	—	5. _____			
6. <u>Lupinus</u>		<u>3</u>	—	6. _____			
7. <u>Scilla maritima</u>		<u>3</u>	—	7. _____			
8. <u>Salix glauca</u>		<u>20+</u>	<u>FACW</u>	8. _____			

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. 100

Cowardin Classification: _____

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks):</p> <p><input type="checkbox"/> Stream, Lake, or Tide Gage</p> <p><input type="checkbox"/> Aerial Photograph</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p><input type="checkbox"/> Inundated</p> <p><input checked="" type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Water Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: _____ (in.)</p> <p>Depth to Free Water in Pit: <u>10</u> (in.)</p> <p>Depth to Saturated Soil: <u>sur face</u> (in.)</p>	
<p>Remarks:</p>	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-12+	10YR 4/3	-	-	G SL
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Probable Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer	<input type="checkbox"/> Organic Streaking	<input type="checkbox"/> Listed on Local Hydric Soils List
	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)		
Remarks: <i>not hydric coloration</i>				

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soils Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this Data Point Within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: <i>although H₂O present now perhaps during the growing season it is drier in this area</i>	

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Hwy</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>K Walker B Miller</u> Job #: _____	Date: <u>9-11-02</u> City: _____ County: _____ State: <u>AL</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>moss</u>		<u>60</u>	<u>-</u>	1. _____			
2. <u>Carex spp</u>		<u>40</u>	<u>-</u>	2. _____			
3. <u>Salix planifolia</u>	<u>20</u>	<u>20</u>	<u>FACW</u>	3. _____			
4. <u>Equisetum</u>			<u>-</u>	4. _____			
5. <u>Redon grandiflora</u>		<u>10</u>	<u>FACW</u>	5. _____			
6. <u>Poa</u>		<u>20</u>	<u>-</u>	6. _____			
7. <u>Epilobium angustifolium</u>		<u>-</u>	<u>-</u>	7. _____			
8. _____				8. _____			

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. 100

Cowardin Classification: _____

Remarks:

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gage <input type="checkbox"/> Aerial Photograph <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Water Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <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"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Remarks:	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-1	10YR ² /1	_____	_____	highly organic SL
1-2	10YR ⁴ /4	_____	_____	SL
2-10+	2.5Y ³ /2	_____	6.5L	6SL
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Probable Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer	<input type="checkbox"/> Organic Streaking	<input type="checkbox"/> Listed on Local Hydric Soils List
	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)		
Remarks: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is this Data Point Within a Wetland? <input checked="" type="radio"/> Yes No
Hydric Soils Present?	Yes	No	
Wetland Hydrology Present?	Yes	No	
Remarks: _____			

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Highway</u> Applicant/Owner: <u>ASC6/ADOT</u> Investigator: <u>KWalter B.M.Her</u> Job #: _____	Date: <u>7-11-02</u> City: _____ County: _____ State: <u>AK</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Lythrum nigra</u>	<u>h</u>	<u>20</u>	<u>fac</u>	1. _____	_____	_____	_____
2. <u>Salix pentandria</u>	<u>s</u>	<u>20</u>	<u>facw</u>	2. _____	_____	_____	_____
3. <u>Picea mariana</u>	<u>t</u>	<u>20</u>	<u>facw</u>	3. _____	_____	_____	_____
4. <u>Vaccinium uliginosum</u>	<u>s</u>	<u>20</u>	<u>fac</u>	4. _____	_____	_____	_____
5. <u>mossy</u>	<u>h</u>	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. 100

Cowardin Classification: _____

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks):</p> <p><input type="checkbox"/> Stream, Lake, or Tide Gage</p> <p><input type="checkbox"/> Aerial Photograph</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p><input type="checkbox"/> Inundated</p> <p><input checked="" type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Water Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u> </u> (in.)</p> <p>Depth to Free Water in Pit: <u> </u> (in.)</p> <p>Depth to Saturated Soil: <u>surface</u> (in.)</p>	
<p>Remarks:</p>	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
_____	10YR 2/1	_____	_____	peat
_____	10YK 3/2	_____	_____	SL
_____	10Y 2.5/0	7.5YR 3/4	few distinct	fine SL
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Probable Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer	<input type="checkbox"/> Organic Streaking	<input type="checkbox"/> Listed on Local Hydric Soils List
	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)		
Remarks: 				

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Data Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Remarks: 	

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Hwy</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>K Walker B Miller</u> Job #: _____	Date: <u>9-11-01</u> City: _____ County: _____ State: <u>AK</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Picea Mariana</u>	<u>T</u>	<u>20</u>	<u>FACW</u>	1. <u>Potentilla</u>	_____	_____	_____
2. <u>Salix sep</u>	<u>S</u>	<u>15</u>	<u>—</u>	2. _____	_____	_____	_____
3. <u>Hamam obtusum</u>	<u>S</u>	<u>20</u>	<u>FACW</u>	3. _____	_____	_____	_____
4. <u>Naccosus oxycoccus</u>	<u>b</u>	<u>20</u>	<u>Obl</u>	4. _____	_____	_____	_____
5. <u>Salix (decumbent)</u>	<u>S</u>	<u>15</u>	<u>—</u>	5. _____	_____	_____	_____
6. <u>Urtica groenlandica</u>	<u>S</u>	<u>10</u>	<u>FACW</u>	6. _____	_____	_____	_____
7. <u>Betula</u>	<u>S</u>	<u>10</u>	<u>—</u>	7. _____	_____	_____	_____
8. <u>MOSS</u>	<u>h</u>	<u>80</u>	<u>—</u>	8. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. 100

Cowardin Classification: _____

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks):</p> <p><input type="checkbox"/> Stream, Lake, or Tide Gage</p> <p><input type="checkbox"/> Aerial Photograph</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p><input type="checkbox"/> Inundated</p> <p><input checked="" type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Water Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>7</u> (in.)</p> <p>Depth to Free Water in Pit: <u>11</u> (in.)</p> <p>Depth to Saturated Soil: <u>surface</u> (in.)</p>	
<p>Remarks:</p>	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-10				decomposing material
10-16	10YR ² /1			mud
16+	10YR ³ /1			sl
Hydric Soil Indicators:				
<input checked="" type="checkbox"/> Histosol	<input type="checkbox"/> Concretions			
<input checked="" type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking			
<input type="checkbox"/> Probable 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: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Is this Data Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Remarks: _____			

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Highway</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>K. Walter Bruller</u> Job #: _____	Date: <u>9-11-02</u> City: _____ County: _____ State: <u>AZ</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Lythrum decumbens</u>		<u>30</u>	<u>FACW</u>	1. _____			
2. <u>Picea mariana</u>		<u>20</u>	<u>FACW</u>	2. _____			
3. <u>Betula nana</u>		<u>15</u>	<u>FAC</u>	3. _____			
4. <u>Quercus pyrenaica</u>		<u>20</u>	<u>OBI</u>	4. _____			
5. <u>herbs</u>		<u>50</u>	<u>-</u>	5. _____			
6. <u>mosses</u>		<u>60</u>	<u>-</u>	6. _____			
7. <u>liverworts</u>		<u>25</u>	<u>-</u>	7. _____			
8. _____				8. _____			

Percent of Dominant Species that are OBL, FACW or FAC (except FAC). *-Dominant species. 2/100

Cowardin Classification: _____

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks):</p> <p><input type="checkbox"/> Stream, Lake, or Tide Gage</p> <p><input type="checkbox"/> Aerial Photograph</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Water Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: _____ (in.)</p> <p>Depth to Free Water in Pit: <u>7"</u> (in.)</p> <p>Depth to Saturated Soil: <u>Surface</u> (in.)</p>	
<p>Remarks:</p>	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-7	10YR ^{2/1}	_____	_____	peat
7+	10YR ^{3/2}	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
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			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking			
<input type="checkbox"/> Probable 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: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is this Data Point Within a Wetland? <input checked="" type="radio"/> Yes No
Hydric Soils Present?	Yes	No	
Wetland Hydrology Present?	Yes	No	
Remarks: _____			

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Hwy</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>Walter B Miller</u> Job #: _____	Date: <u>9-11-02</u> City: _____ County: _____ State: <u>AK</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Blue joint</u>				1. _____			
2. <u>Artemesia filifolia</u>			<u>NE</u>	2. _____			
3. <u>Picea maritima</u>		<u>5</u>	<u>FACW</u>	3. _____			
4. <u>Populus balsamifera</u>			<u>FACU</u>	4. _____			
5. <u>Willow</u>				5. _____			
6. _____				6. _____			
7. _____				7. _____			
8. _____				8. _____			

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. > 50

Cowardin Classification: _____

Remarks:

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gage <input type="checkbox"/> Aerial Photograph <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Water Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <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"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks:	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-3	10YR 2/1	—	—	some organics SL
3-15+	7.5YR 3/1	none		SL
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Probable Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer	<input type="checkbox"/> Organic Streaking	<input type="checkbox"/> Listed on Local Hydric Soils List
	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)		
Remarks: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is this Data Point Within a Wetland? Yes No
Hydric Soils Present?	Yes	No	
Wetland Hydrology Present?	Yes	No	
Remarks: _____			

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Hwy</u> Applicant/Owner: <u>A DOT</u> Investigator: <u>K. Miller B. Miller</u> Job #: _____	Date: <u>9-12-02</u> City: _____ County: _____ State: <u>Ala</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Carex spp.</u>		<u>20</u>	<u>-</u>	1. _____			
2. <u>Moss</u>		<u>60</u>	<u>-</u>	2. _____			
3. <u>Salix planifolia</u>		<u>15</u>	<u>facw</u>	3. _____			
4. <u>Spartina virginiana?</u>		<u>10</u>	<u>facw</u>	4. _____			
5. <u>Pectica ? spp</u>		<u>10</u>	<u>-</u>	5. _____			
6. _____				6. _____			
7. _____				7. _____			
8. _____				8. _____			

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. 100

Cowardin Classification: _____

Remarks:

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gage <input type="checkbox"/> Aerial Photograph <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Water Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <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"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u> </u> (in.) Depth to Free Water in Pit: <u> 9 </u> (in.) Depth to Saturated Soil: <u> Surface </u> (in.)	
Remarks:	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations		
		Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-15+	10YR 3/2	7.5YR 5/6	few diffuse	SL organic lenses
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input checked="" type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Probable Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer <input type="checkbox"/> Organic Streaking <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is this Data Point Within a Wetland? <input checked="" type="checkbox"/> Yes No
Hydric Soils Present?	Yes	No	
Wetland Hydrology Present?	Yes	No	
Remarks: _____			

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Hwy</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>Kwikker Briller</u> Job #: _____	Date: <u>9-12-02</u> City: _____ County: _____ State: <u>AL</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Bahia pasiflora</u>	<u>S</u>	<u>20</u>	<u>FACW</u>	1. _____	_____	_____	_____
2. <u>Salix planifolia</u>	<u>S</u>	<u>20</u>	<u>FACW</u>	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *Dominant species. 50

Cowardin Classification: _____

Remarks:

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gage <input type="checkbox"/> Aerial Photograph <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Water Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <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"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>1"</u> (in.) Depth to Free Water in Pit: <u>surface</u> (in.) Depth to Saturated Soil: <u>surface</u> (in.)	
Remarks:	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
<u>0-8+</u>	<u>10YR 4/4</u>	_____	_____	<u>fs</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Probable Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer <input type="checkbox"/> Organic Streaking <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No	Is this Data Point Within a Wetland? Yes <input checked="" type="radio"/> No
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No	
Wetland Hydrology Present?	? Yes	<input checked="" type="radio"/> No	
Remarks: <i>hydrology appears to be new recent road changes may impound water - (and heavy rainfall), wetland conditions may develop over time if this is not rectified</i>			

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Highway</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>R. Walter, B. Miller</u> Job #: _____	Date: <u>9-12-02</u> City: _____ County: _____ State: <u>AK</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. Labrador Tea	A	20	facw	1. _____	_____	_____	_____
2. Narrow Leaf Labrador Tea	A	50	facw	2. _____	_____	_____	_____
3. Blueberry	A	40	fac	3. _____	_____	_____	_____
4. Moss	_____	100	_____	4. _____	_____	_____	_____
5. Salix planifolia	A	20	facw	5. _____	_____	_____	_____
6. Picea Mariana	T	20	facw	6. _____	_____	_____	_____
7. Carex sp.	H	20	_____	7. _____	_____	_____	_____
8. Botrychium fruticosum	S	15	fac	8. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *Dominant species. 100

Cowardin Classification: _____

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gage <input type="checkbox"/> Aerial Photograph <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Water Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <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"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>surface</u> (in.) Depth to Free Water in Pit: <u>16</u> (in.) Depth to Saturated Soil: <u>surface</u> (in.)	
Remarks: _____	

SOILS

DP-9

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations		
		Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-8	10YR 2/2			muck w/ silt
8-14	10YR 3/2 and 3/3			sand lense
14+	10YR 3/1			high organic silt loam
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Probable Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer <input type="checkbox"/> Organic Streaking <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is this Data Point Within a Wetland? <input checked="" type="radio"/> Yes No
Hydric Soils Present?	Yes	No	
Wetland Hydrology Present?	Yes	No	
Remarks: _____			

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Hwy</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>K. Walter, B. Miller</u> Job #: _____	Date: <u>9-12-67</u> City: _____ County: _____ State: <u>AK</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Salix planifolia</u>	<u>S</u>		<u>Facw</u>	1. _____			
2. <u>Picea Mariana</u>	<u>T</u>	<u>30</u>	<u>Facw</u>	2. _____			
3. <u>Carex (aquatic?)</u>	<u>H</u>	<u>20</u>	<u>obl</u>	3. _____			
4. <u>Ranunculus aquatilis</u>		<u>40</u>	<u>Facw</u>	4. _____			
5. <u>Calamagrostis</u>	<u>H</u>	<u>30</u>	<u>-</u>	5. _____			
6. <u>Carex flaccida?</u>	<u>H</u>	<u>20</u>	<u>obl</u>	6. _____			
7. <u>Moss</u>		<u>20</u>	<u>-</u>	7. _____			
8. _____				8. _____			

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. 1.100

Cowardin Classification: _____

Remarks: ss wetland

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gage <input checked="" type="checkbox"/> Aerial Photograph <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Water Lines - <u>± 6"</u> of H ₂ O stand in wetland at times <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <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"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>surface</u> (in.)	
Remarks: <u>evidence of previous inundation some local ponding ~ 6-12 inches</u>	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-6	_____	_____	_____	peaty organic
6-16	10YR 3/1	_____	_____	highly organic 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			
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking			
<input type="checkbox"/> Probable 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: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Is this Data Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Remarks: water			

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Highway</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>K. Walker & Miller</u> Job #: _____	Date: <u>7-12-02</u> City: _____ County: _____ State: <u>AK</u> <u>Above Walker Creek</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Sphagnum</u>		<u>80%</u>	<u>ob/NL</u>	1. _____			
2. <u>Ledum palustre</u>		<u>20</u>	<u>FACW</u>	2. _____			
3. <u>Vaccinium vitis-idaea</u>		<u>15</u>	<u>FAC</u>	3. _____			
4. <u>Salix planifolia</u>		<u>15</u>	<u>FACW</u>	4. _____			
5. <u>Picea mariana</u>		<u>20</u>	<u>FACW</u>	5. _____			
6. <u>Vaccinium uliginosum</u>			<u>FAC</u>	6. _____			
7. _____				7. _____			
8. _____				8. _____			

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *Dominant species. 4.100

Cowardin Classification: _____

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks):</p> <p><input type="checkbox"/> Stream, Lake, or Tide Gage</p> <p><input type="checkbox"/> Aerial Photograph</p> <p><input type="checkbox"/> Other</p> <p><input type="checkbox"/> No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p><input type="checkbox"/> Inundated</p> <p><input checked="" type="checkbox"/> Saturated in Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Water Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: _____ (in.)</p> <p>Depth to Free Water in Pit: _____ (in.)</p> <p>Depth to Saturated Soil: <u>surface</u> (in.)</p>	
<p>Remarks:</p>	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-7	_____	_____	_____	rock part
7-11+	10YR 3/2	_____	_____	SIL
_____	_____	_____	_____	S
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Probable Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer	<input type="checkbox"/> Organic Streaking	<input type="checkbox"/> Listed on Local Hydric Soils List
	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)		
Remarks: h.f per ma frost at about 11" water seeping in at 67"				

WETLAND DETERMINATION

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

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Highway</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>K. Walker B. Miller</u> Job #: _____	Date: <u>9-12-02</u> City: _____ County: _____ State: <u>AK</u>
Have vegetation, soils, or hydrology been disturbed: <input checked="" type="radio"/> Yes <input type="radio"/> No Is the area a potential Problem Area: <input checked="" type="radio"/> Yes <input type="radio"/> No (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Betula papyrifera</u>	<u>T...</u>	<u>20</u>	<u>FACV</u>	1. _____	_____	_____	_____
2. <u>Alnus incana</u>	<u>T</u>	<u>20</u>	<u>FAC</u>	2. _____	_____	_____	_____
3. <u>grass Carex sp.</u>	<u>h</u>	<u>30</u>	<u>---</u>	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *-Dominant species. 75.0

Cowardin Classification: _____

Remarks:

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gage <input type="checkbox"/> Aerial Photograph <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Water Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <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"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>7</u> (in.) Depth to Free Water in Pit: <u>11</u> (in.) Depth to Saturated Soil: <u>1</u> (in.)	
Remarks:	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-4"	_____	_____	_____	df
4-14"	10YR 3/2	_____	_____	SL
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Probable Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer	<input type="checkbox"/> Organic Streaking	<input type="checkbox"/> Listed on Local Hydric Soils List
	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)		
Remarks: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No	Is this Data Point Within a Wetland? Yes <input checked="" type="radio"/> No
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No	
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No	
Remarks: _____			

**DATA FORM
ROUTINE WETLAND DETERMINATION**

Project/Site: <u>Taylor Hwy</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>K. Walker B. Miller</u> Job #: _____	Date: <u>9-12-02</u> City: _____ County: _____ State: <u>A</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Salix planifolia</u>	<u>20</u>	<u>S</u>	<u>FACW</u>	1. <u>Equisetum arvense</u>	<u>S</u>	<u>S</u>	<u>FACW</u>
2. <u>Betula papyrifera</u>	<u>30</u>	<u>T</u>	<u>FACV</u>	2. _____	_____	_____	_____
3. <u>Picea mariana</u>	<u>10</u>	<u>T</u>	<u>FACW</u>	3. _____	_____	_____	_____
4. <u>Arctostaphylos uva-ursi</u>	<u>40</u>	<u>S</u>	<u>FACW</u>	4. _____	_____	_____	_____
5. <u>Shepherdia canadensis</u>	<u>15</u>	<u>S</u>	<u>NI</u>	5. _____	_____	_____	_____
6. <u>Ledum groenlandicum</u>	<u>15</u>	<u>S</u>	<u>FACW</u>	6. _____	_____	_____	_____
7. <u>Vaccinium uliginosum</u>	<u>15</u>	<u>S</u>	<u>FAC</u>	7. _____	_____	_____	_____
8. <u>Vaccinium vitis-idaea</u>	<u>30</u>	<u>A</u>	<u>FAC</u>	8. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *Dominant species. 1.50

Cowardin Classification: _____

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gage ___ Aerial Photograph ___ Other ___ No Recorded Data Available	Wetland Hydrology Indicators ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Water Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands ___ Oxidized Root Channels in Upper 12 Inches ___ Water-Stained Leaves ___ Local Soil Survey Data ___ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	
Remarks: <u>dry</u>	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-12	7.5YR 2/1	_____	_____	highly organic sil
12-16+	10YR 3/1	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Probable Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer	<input type="checkbox"/> Organic Streaking	<input type="checkbox"/> Listed on Local Hydric Soils List
	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)		
Remarks: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No	Is this Data Point Within a Wetland? Yes <input checked="" type="radio"/> No
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Remarks: _____			

DATA FORM
ROUTINE WETLAND DETERMINATION

Project/Site: <u>Taylor Hwy</u> Applicant/Owner: <u>ADOT</u> Investigator: <u>KLWalter B Miller Job #: 21-1</u>	Date: <u>9-12-02</u> City: _____ County: _____ State: <u>AK</u>
Have vegetation, soils, or hydrology been disturbed: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential Problem Area: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (If needed, explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	% Cover	Indicator	Dominant Plant Species	Stratum	% Cover	Indicator
1. <u>Betula dwarf</u>	<u>50</u>	<u>5</u>	<u>—</u>	1. _____	_____	_____	_____
2. <u>Moss</u>	<u>40</u>	<u>h</u>	<u>—</u>	2. _____	_____	_____	_____
3. <u>Grass</u>	<u>20</u>	<u>h</u>	<u>—</u>	3. _____	_____	_____	_____
4. <u>Poa</u>	<u>20</u>	<u>h</u>	<u>—</u>	4. _____	_____	_____	_____
5. <u>Shrubby cinquefoil</u>	<u>20</u>	<u>3</u>	<u>—</u>	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (except FAC-). *Dominant species. _____

Cowardin Classification: _____

Remarks: _____

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gage <input type="checkbox"/> Aerial Photograph <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Water Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <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"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	
Remarks: _____	

SOILS

Map Unit Name: _____		Drainage Class: _____		
Taxonomy (Subgroup): _____		Field Observations		
		Confirm Mapped Type? Yes No		
Profile Description:				
Depth (inches)	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
_____	_____	_____	_____	_____
_____	10YR3/1	_____	_____	Organic SIL
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Hydric Soil Indicators:				
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Probable Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer <input type="checkbox"/> Organic Streaking <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)		
Remarks: _____				

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is this Data Point Within a Wetland? Yes <u>No</u>
Hydric Soils Present?	Yes	<u>No</u>	
Wetland Hydrology Present?	Yes	<u>No</u>	
Remarks: _____			

APPENDIX D

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



Date: May 16, 2003
To: ASCG, Inc.
Anchorage, Alaska

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

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

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

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

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

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

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

MOST WETLAND/STREAM "FINDINGS" ARE PROFESSIONAL ESTIMATES.

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

WETLAND/STREAM CONDITIONS CAN CHANGE.

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

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

THE WETLAND/STREAM REPORT IS SUBJECT TO MISINTERPRETATION.

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

DATA FORMS SHOULD NOT BE SEPARATED FROM THE REPORT.

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

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

READ RESPONSIBILITY CLAUSES CLOSELY.

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

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

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

Contact your consultant for further information.