

**Exhibit 11B**  
**Delineation Field Forms**

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 195600522 / Bowers

City/County: Carroll Plt / Penobscot

Sampling Date: 9/22/2010

Applicant/Owner:

State: ME

Sampling Point: W015  
(01aay)

Investigator(s): ATA / BPE

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>  If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: no wetland hydrology observed		

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>																	
1. <i>Picea rubens</i>	20	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	0 (A)																
2. <i>Acer saccharum</i>	50	Yes	FACU	Total Number of Dominant Species Across All Strata:	6 (B)																
3.				Percent of Dominant Species That Are OBL, FACW, or FAC:	0 (A/B)																
4.				<b>Prevalence Index worksheet:</b>  <div style="display: flex; justify-content: space-between;"> <span><u>Total % Cover of:</u></span> <span><u>Multiply by:</u></span> </div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>OBL Species</td> <td style="text-align: right;">x 1 =</td> </tr> <tr> <td>FACW Species</td> <td style="text-align: right;">x 2 =</td> </tr> <tr> <td>FAC Species</td> <td style="text-align: right;">x 3 =</td> </tr> <tr> <td>FACU Species</td> <td style="text-align: right;">x 4 =</td> </tr> <tr> <td>UPL species</td> <td style="text-align: right;">x 5 =</td> </tr> <tr> <td>Column Totals</td> <td style="text-align: right;">(A)</td> </tr> <tr> <td></td> <td style="text-align: right;">(B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A =</td> </tr> </table>		OBL Species	x 1 =	FACW Species	x 2 =	FAC Species	x 3 =	FACU Species	x 4 =	UPL species	x 5 =	Column Totals	(A)		(B)	Prevalence Index = B/A =	
OBL Species	x 1 =																				
FACW Species	x 2 =																				
FAC Species	x 3 =																				
FACU Species	x 4 =																				
UPL species	x 5 =																				
Column Totals	(A)																				
	(B)																				
Prevalence Index = B/A =																					
5.				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																	
6.						<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (76 cm) or more in diameter (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.															
7.	70	= Total Cover						<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													
<u>Sapling/Shrub Stratum</u> (Plot size: 15')																					
1. <i>Betula alleghaniensis</i>	10	No	FAC																		
2. <i>Fagus grandifolia</i>	75	Yes	FACU																		
3. <i>Picea rubens</i>	5	No	FACU																		
4. <i>Acer pensylvanicum</i>	2	No	FACU																		
5.																					
6.																					
7.																					
	92	= Total Cover																			
<u>Herb Stratum</u> (Plot size: 5')																					
1. <i>Aralia nudicaulis</i>	2	Yes	FACU																		
2. <i>Acer pensylvanicum</i>	2	Yes	FACU																		
3. <i>Dryopteris intermedia</i>	3	Yes	FACU																		
4. <i>Equisetum sylvaticum</i>	1	No	FACW																		
5. <i>Uvularia sessifolia</i>	1	No	FACU																		
6.																					
7.																					
8.																					
9.																					
10.																					
11.																					
12.																					
	9	= Total Cover																			
<u>Woody Vine Stratum</u> (Plot size:      )																					
1.																					
2.																					
3.																					
4.																					
= Total Cover																					
Remarks (Include photo numbers here or on a separate sheet.):																					



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City/County: Carroll Plt / Penobscot

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Applicant/Owner:

State: ME

Sampling Point: W015  
(01aay)

Investigator(s): ATA / BPE

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: 01aay
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
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<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): 2"	
Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): 0"	
Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status																	
1. None				<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)  Total Number of Dominant Species Across All Strata: 5 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)																
2.																				
3.																				
4.																				
5.																				
6.																				
7.																				
	0	= Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL Species</td> <td style="text-align: right;">x 1 =</td> </tr> <tr> <td>FACW Species</td> <td style="text-align: right;">x 2 =</td> </tr> <tr> <td>FAC Species</td> <td style="text-align: right;">x 3 =</td> </tr> <tr> <td>FACU Species</td> <td style="text-align: right;">x 4 =</td> </tr> <tr> <td>UPL species</td> <td style="text-align: right;">x 5 =</td> </tr> <tr> <td>Column Totals</td> <td style="text-align: right;">(A) (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A =</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL Species	x 1 =	FACW Species	x 2 =	FAC Species	x 3 =	FACU Species	x 4 =	UPL species	x 5 =	Column Totals	(A) (B)	Prevalence Index = B/A =	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL Species	x 1 =																			
FACW Species	x 2 =																			
FAC Species	x 3 =																			
FACU Species	x 4 =																			
UPL species	x 5 =																			
Column Totals	(A) (B)																			
Prevalence Index = B/A =																				
<u>Sapling/Shrub Stratum</u> (Plot size: 15')																				
1. Betula alleghaniensis	2	No	FAC																	
2. Salix bebbiana	20	Yes	FACW																	
3.																				
4.																				
5.																				
6.																				
7.																				
	22	= Total Cover		<b>Hydrophytic Vegetation Indicators:</b>  <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
<u>Herb Stratum</u> (Plot size: 5')																				
1. Onoclea sensibilis	15	Yes	FACW																	
2. Impatiens capensis	10	Yes	FACW																	
3. Carex crinita	10	Yes	OBL																	
4. Fragaria virginiana	8	No	FACU																	
5. Epilobium ciliatum	8	No	FAC																	
6. Equisetum sylvaticum	15	Yes	FACW																	
7. Parathelypteris novaboracensis	2	No	FAC																	
8. Osmunda claytonia	2	No	FAC																	
9. Juncus effusus	2	No	FACW																	
10. Carex gynandra	2	No	OBL																	
11. Arisaema triphyllum	2	No	FACW																	
12.																				
	76	= Total Cover		<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (76 cm) or more in diameter (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																
<u>Woody Vine Stratum</u> (Plot size: )																				
1.																				
2.																				
3.																				
4.																				
		= Total Cover		<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
Remarks (Include photo numbers here or on a separate sheet.):																				



Project Title: **Bowers Wind Project** Transect Number: **W097 (02MAV)** Plot Number: **1 - Upland**

Delineators: **MPA** Date: **11/18/2009**

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	NWI Status
<b>Trees:</b>				
	Eastern hemlock ( <i>Tsuga canadensis</i> )	6/10	60	FACU
	red spruce ( <i>Picea rubens</i> )	3/10	30	FACU
	balsam fir ( <i>Abies balsamea</i> )	1/10	10	---
<b>Poles:</b>				
	yellow birch ( <i>Betula alleghaniensis</i> )	20/60	33	FAC
	Eastern hemlock ( <i>Tsuga canadensis</i> )	40/60	66	FACU
<b>Shrubs:</b>				
	red spruce ( <i>Picea rubens</i> )	15/25	60	FACU
	yellow birch ( <i>Betula alleghaniensis</i> )	10/25	40	FAC
<b>Herbs:</b>				
	evergreen wood fern ( <i>Dryopteris intermedia</i> )	20/23	87	FACU
	red spruce ( <i>Picea rubens</i> )	3/23	13	---

Note 1: Use asterisk \* to indicate plants with adaptations to wetland hydrology. Plants recorded with asterisks should be considered as "other hydrophytes" in the tally below.  
 Note 2: Species with NA or NI status are reported, but are not calculated in the tally below.

<u>0</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>5</u>	<u>0</u>
OBL	FACW	FAC	OTHER HYDROPHYTES	FAC-	FACU	UPL
Hydrophytes Subtotal: <u>2</u>				Non-hydrophytes Subtotal: <u>5</u>		
100 x Subtotal Hydrophytes				=	<u>29</u> = Percent Hydrophytes	
Subtotal Hydrophytes + Subtotal Non-Hydrophytes						

Describe Vegetation Disturbance: no disturbance observed

**HYDROLOGY**

- Hydrology is often the most difficult feature to observe.
- Interpretation must consider the validity of the observation in light of the season, recent weather conditions, watershed alterations, etc.
- Interpretation of hydrology may require repeated observations over more than one season.

RECORDED DATA

Stream, lake, or tidal gage Identification: \_\_\_\_\_

Aerial photography Identification: \_\_\_\_\_

Other Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: no free water observed

Depth to Saturation (including capillary fringe): \_\_\_\_\_ soils not saturated \_\_\_\_\_

Altered Hydrology (explain): no altered hydrology

Inundated    Saturated in upper 12"    Water Marks    Drift Lines    Sediment Deposits

Drainage Patterns within Wetland    OTHER (explain): \_\_\_\_\_





Project Title: **Bowers Wind Project** Transect Number: **W097 (02MAV)** Plot Number: **2 - Wetland**

Delineators: **MPA** Date: **11/18/2009**

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	NWI Status
<b>Trees:</b>				
	yellow birch ( <i>Betula alleghaniensis</i> )	4/11	36	FAC
	eastern hemlock ( <i>Tsuga canadensis</i> )*	2/11	18	---
	red spruce ( <i>Picea rubens</i> )*	3/11	27	FACU*
	balsam fir ( <i>Abies balsamea</i> )	2/11	18	---
<b>Poles:</b>				
	yellow birch ( <i>Betula alleghaniensis</i> )	15/18	83	FAC
	eastern hemlock ( <i>Tsuga canadensis</i> )	3/18	17	---
<b>Shrubs:</b>				
	yellow birch ( <i>Betula alleghaniensis</i> )	25/40	63	FAC
	eastern hemlock ( <i>Tsuga canadensis</i> )	15/40	38	FACU
<b>Herbs:</b>				
	evergreen wood fern ( <i>Dryopteris intermedia</i> )	5/5	100	FACU

Note 1: Use asterisk \* to indicate plants with adaptations to wetland hydrology.

Plants recorded with asterisks should be considered as "other hydrophytes" in the tally below.

Note 2: Species with NA or NI status are reported, but are not calculated in the tally below.

<u>0</u>	<u>0</u>	<u>3</u>	<u>1</u>	<u>0</u>	<u>2</u>	<u>0</u>
OBL	FACW	FAC	OTHER HYDROPHYTES	FAC-	FACU	UPL
Hydrophytes Subtotal: <u>4</u>				Non-hydrophytes Subtotal: <u>2</u>		
100 x Subtotal Hydrophytes				=	<u>67</u> = Percent Hydrophytes	
Subtotal Hydrophytes + Subtotal Non-Hydrophytes						

Describe Vegetation Disturbance: no disturbance observed

**HYDROLOGY**

- Hydrology is often the most difficult feature to observe.
- Interpretation must consider the validity of the observation in light of the season, recent weather conditions, watershed alterations, etc.
- Interpretation of hydrology may require repeated observations over more than one season.

RECORDED DATA

Stream, lake, or tidal gage Identification: \_\_\_\_\_

Aerial photography Identification: \_\_\_\_\_

Other Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: 8"

Depth to Saturation (including capillary fringe): soil saturated at mineral soil surface

Altered Hydrology (explain): no altered hydrology

Inundated  Saturated in upper 12"  Water Marks  Drift Lines  Sediment Deposits

Drainage Patterns within Wetland  OTHER (explain): water-stained leaves





Project Title: **Bowers Wind Project** Transect Number: **W109 (01MAF) Plot Number: 1 - Upland**

Delineators: **MPA** Date: **11/10/2009**

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	NWI Status
<b>Trees:</b>				
	American beech ( <i>Fagus grandifolia</i> )	3/3	100	FACU
<b>Poles:</b>				
	American beech ( <i>Fagus grandifolia</i> )	80/140	57	FACU
	yellow birch ( <i>Betula alleghaniensis</i> )	40/140	29	FAC
	striped maple ( <i>Acer pensylvanicum</i> )	20/140	14	---
<b>Shrubs:</b>				
	red spruce ( <i>Picea rubens</i> )	20/80	25	FACU
	American beech ( <i>Fagus grandifolia</i> )	30/80	38	FACU
	hobblebush ( <i>Viburnum lantanoides</i> )	10/80	13	
	yellow birch ( <i>Betula alleghaniensis</i> )	20/80	25	FAC
<b>Herbs:</b>				
	evergreen wood fern ( <i>Dryopteris intermedia</i> )	10/10	100	FAC+

Note 1: Use asterisk \* to indicate plants with adaptations to wetland hydrology. Plants recorded with asterisks should be considered as "other hydrophytes" in the tally below.  
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<u>0</u>	<u>0</u>	<u>3</u>	<u>0</u>	<u>0</u>	<u>4</u>	<u>0</u>
OBL	FACW	FAC	OTHER HYDROPHYTES	FAC-	FACU	UPL
Hydrophytes Subtotal: <u>3</u>				Non-hydrophytes Subtotal: <u>4</u>		
100 x Subtotal Hydrophytes				=	<u>43</u>	= Percent Hydrophytes
Subtotal Hydrophytes + Subtotal Non-Hydrophytes						

Describe Vegetation Disturbance: no disturbance observed

**HYDROLOGY**

- Hydrology is often the most difficult feature to observe.
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- Interpretation of hydrology may require repeated observations over more than one season.

RECORDED DATA  
 Stream, lake, or tidal gage Identification: \_\_\_\_\_  
 Aerial photography Identification: \_\_\_\_\_  
 Other Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:  
 Depth to Free Water: no free water observed  
 Depth to Saturation (including capillary fringe): soils not saturated  
 Altered Hydrology (explain): no altered hydrology

Inundated    Saturated in upper 12"    Water Marks    Drift Lines    Sediment Deposits  
 Drainage Patterns within Wetland    OTHER (explain): \_\_\_\_\_









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City/County: Carroll Plt / Penobscot

Sampling Date: 5/17/2010

Applicant/Owner:

State: ME

Sampling Point: W120  
(03mgy)

Investigator(s): MJG / SPD

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></b>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: no wetland hydrology observed		





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 195600522/ Bowers

City/County: Carroll Plt / Penobscot

Sampling Date: 5/17/2010

Applicant/Owner:

State: ME

Sampling Point: W120  
(03mgy)

Investigator(s): MJG / SPD

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  If yes, optional Wetland Site ID: 03mgy
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): 2"	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): 0"	
Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		





Project Title: **Bowers Wind Project** Transect Number: **W137 (02MAE)** Plot Number: **1 - Upland**

Delineators: **MPA** Date: **11/11/2009**

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	NWI Status
<b>Trees:</b>				
	yellow birch ( <i>Betula alleghaniensis</i> )	1/3	33	FAC
	red maple ( <i>Acer rubrum</i> )	1/3	33	FAC
	Eastern hemlock ( <i>Tsuga canadensis</i> )	1/3	33	FACU
<b>Poles:</b>				
	red spruce ( <i>Picea rubens</i> )	5/10	50	FACU
	balsam fir ( <i>Abies balsamea</i> )	5/10	50	FAC
<b>Shrubs:</b>				
	balsam fir ( <i>Abies balsamea</i> )	35/44	80	FAC
	red spruce ( <i>Picea rubens</i> )	5/44	11	---
	American beech ( <i>Fagus grandifolia</i> )	3/44	7	
	red maple ( <i>Acer rubrum</i> )	1/44	2	
<b>Herbs:</b>				
	evergreen wood fern ( <i>Dryopteris intermedia</i> )	15/86	17	---
	stiff clubmoss ( <i>Lycopodium annotinum</i> )	65/86	76	FACU
	bunchberry ( <i>Cornus canadensis</i> )	5/86	6	---
	Three-leaved goldthread ( <i>Coptis trifolia</i> )	1/86	1	---

Note 1: Use asterisk \* to indicate plants with adaptations to wetland hydrology. Plants recorded with asterisks should be considered as "other hydrophytes" in the tally below.  
 Note 2: Species with NA or NI status are reported, but are not calculated in the tally below.

<u>0</u>	<u>0</u>	<u>4</u>	<u>0</u>	<u>0</u>	<u>3</u>	<u>0</u>
OBL	FACW	FAC	OTHER HYDROPHYTES	FAC-	FACU	UPL
Hydrophytes Subtotal: <u>4</u>				Non-hydrophytes Subtotal: <u>3</u>		
100 x Subtotal Hydrophytes				=	Percent Hydrophytes	
Subtotal Hydrophytes + Subtotal Non-Hydrophytes				= <u>57</u>		

Describe Vegetation Disturbance: no disturbance observed

**HYDROLOGY**

- Hydrology is often the most difficult feature to observe.
- Interpretation must consider the validity of the observation in light of the season, recent weather conditions, watershed alterations, etc.
- Interpretation of hydrology may require repeated observations over more than one season.

RECORDED DATA

Stream, lake, or tidal gage Identification: \_\_\_\_\_  
 Aerial photography Identification: \_\_\_\_\_  
 Other Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: no free water observed  
 Depth to Saturation (including capillary fringe): soil not saturated  
 Altered Hydrology (explain): no altered hydrology

- Inundated  Saturated in upper 12"  Water Marks  Drift Lines  Sediment Deposits  
 Drainage Patterns within Wetland  OTHER (explain):





Project Title: **Bowers Wind Project** Transect Number: **W137 (02MAE)** Plot Number: **2-Wetland**

Delineators: **MPA** Date: **11/17/2009**

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	NWI Status
<b>Trees:</b>				
	balsam fir ( <i>Abies balsamea</i> )	3/10	30	FAC
	yellow birch ( <i>Betula alleghaniensis</i> )	1/10	10	---
	red maple ( <i>Acer rubrum</i> )	5/10	50	FAC
	red spruce ( <i>Picea rubens</i> )	1/10	10	---
<b>Poles:</b>				
	red spruce ( <i>Picea rubens</i> )	3/6	50	FACU
	balsam fir ( <i>Abies balsamea</i> )	3/6	50	FAC
<b>Shrubs:</b>				
	balsam fir ( <i>Abies balsamea</i> )	20/33	61	FAC
	red spruce ( <i>Picea rubens</i> )	3/33	9	---
	speckled alder ( <i>Alnus incana</i> )	10/33	30	FACW+
<b>Herbs:</b>				
	tussock sedge ( <i>Carex stricta</i> )	80/98	82	OBL
	bristly blackberry ( <i>Rubus hispidus</i> )	15/98	15	---
	balsam fir ( <i>Abies balsamea</i> )	3/98	3	---

Note 1: Use asterisk \* to indicate plants with adaptations to wetland hydrology.

Plants recorded with asterisks should be considered as "other hydrophytes" in the tally below.

Note 2: Species with NA or NI status are reported, but are not calculated in the tally below.

<u>1</u>	<u>1</u>	<u>4</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>
OBL	FACW	FAC	OTHER HYDROPHYTES	FAC-	FACU	UPL
Hydrophytes Subtotal: <u>6</u>				Non-hydrophytes Subtotal: <u>1</u>		
100 x Subtotal Hydrophytes				=	<u>86</u> = Percent Hydrophytes	
Subtotal Hydrophytes + Subtotal Non-Hydrophytes						

Describe Vegetation Disturbance: no disturbance observed

**HYDROLOGY**

- Hydrology is often the most difficult feature to observe.
- Interpretation must consider the validity of the observation in light of the season, recent weather conditions, watershed alterations, etc.
- Interpretation of hydrology may require repeated observations over more than one season.

RECORDED DATA

Stream, lake, or tidal gage Identification: \_\_\_\_\_

Aerial photography Identification: \_\_\_\_\_

Other Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water: 6"

Depth to Saturation (including capillary fringe): soil saturated at the soil surface

Altered Hydrology (explain): no altered hydrology

Inundated  Saturated in upper 12"  Water Marks  Drift Lines  Sediment Deposits

Drainage Patterns within Wetland  OTHER (explain): \_\_\_\_\_





Project Title: **Bowers Wind Project** Transect Number: **W161 (01RLF)** Plot Number: **1 - Upland**

Delineators: **MJG, REL** Date: **11/11/2009**

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	NWI Status
<b>Trees:</b>				
American beech ( <i>Fagus grandifolia</i> )		3/8	38	FACU
red maple ( <i>Acer rubrum</i> )		3/8	38	FAC
yellow birch ( <i>Betula alleghaniensis</i> )		1/8	12.5	---
gray birch ( <i>Betula populifolia</i> )		1/8	12.5	---
<b>Poles:</b>				
American beech ( <i>Fagus grandifolia</i> )		50/68	74	FACU
yellow birch ( <i>Betula alleghaniensis</i> )		15/68	22	FAC
red spruce ( <i>Picea rubens</i> )		3/68	4	---
<b>Shrubs:</b>				
American beech ( <i>Fagus grandifolia</i> )		20/31	65	FACU
yellow birch ( <i>Betula alleghaniensis</i> )		5/31	16	---
Eastern hemlock ( <i>Tsuga canadensis</i> )		5/31	16	---
red spruce ( <i>Picea rubens</i> )		1/31	3	---
<b>Seedlings and Herbs:</b>				
prickly tree clubmoss ( <i>Dendrolycopodium dendroideum</i> )		5/9	56	FACU
evergreen wood fern ( <i>Dryopteris intermedia</i> )		1/9	11	---
red spruce ( <i>Picea rubens</i> )		3/9	33	FACU

Note 1: Use asterisk \* to indicate plants with adaptations to wetland hydrology. Plants recorded with asterisks should be considered as "other hydrophytes" in the tally below.  
 Note 2: Species with NA or NI status are reported, but are not calculated in the tally below.

<u>0</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>	<u>5</u>	<u>0</u>
OBL	FACW	FAC	OTHER HYDROPHYTES	FAC-	FACU	UPL
Hydrophytes Subtotal: <u>2</u>				Non-hydrophytes Subtotal: <u>5</u>		
100 x Subtotal Hydrophytes				=	<u>29</u> = Percent Hydrophytes	
Subtotal Hydrophytes + Subtotal Non-Hydrophytes						

Describe Vegetation Disturbance: recent logging activity

**HYDROLOGY**

- Hydrology is often the most difficult feature to observe.
- Interpretation must consider the validity of the observation in light of the season, recent weather conditions, watershed alterations, etc.
- Interpretation of hydrology may require repeated observations over more than one season.

RECORDED DATA  
 Stream, lake, or tidal gage Identification: \_\_\_\_\_  
 Aerial photography Identification: \_\_\_\_\_  
 Other Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:  
 Depth to Free Water: no free water observed  
 Depth to Saturation (including capillary fringe): \_\_\_\_\_ soils not saturated \_\_\_\_\_  
 Altered Hydrology (explain): no altered hydrology

Inundated    Saturated in upper 12"    Water Marks    Drift Lines    Sediment Deposits  
 Drainage Patterns within Wetland    OTHER (explain): \_\_\_\_\_





Project Title: **Bowers Wind Project** Transect Number: **W161 (01RLF)** Plot Number: **2-Wetland**

Delineators: **MJG, REL** Date: **11/11/2009**

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	NWI Status
<b>Tree:</b>				
	red maple ( <i>Acer rubrum</i> )	1/3	33	FAC
	eastern hemlock ( <i>Tsuga Canadensis</i> )	2/3	66	FACU
<b>Pole:</b>				
	red maple ( <i>Acer rubrum</i> )	5/5	100	FAC
<b>Shrub:</b>				
	red spruce ( <i>Picea rubens</i> )	20/20	100	FACU
<b>Seedlings and Herbs:</b>				
	cinnamon fern ( <i>Osmunda cinnamomea</i> )	30/90	33	FAC
	hoary sedge ( <i>Carex canescens</i> )	50/90	56	OBL
	eastern rough sedge ( <i>Carex scabrada</i> )	10/90	11	---

Note 1: Use asterisk \* to indicate plants with adaptations to wetland hydrology.

Plants recorded with asterisks should be considered as "other hydrophytes" in the tally below.

Note 2: Species with NA or NI status are reported, but are not calculated in the tally below.

<u>  1  </u>	<u>  0  </u>	<u>  3  </u>	<u>  0  </u>	<u>  0  </u>	<u>  2  </u>	<u>  0  </u>
OBL	FACW	FAC	OTHER HYDROPHYTES	FAC-	FACU	UPL
Hydrophytes Subtotal: <u>  4  </u>				Non-hydrophytes Subtotal: <u>  2  </u>		
$\frac{100 \times \text{Subtotal Hydrophytes}}{\text{Subtotal Hydrophytes} + \text{Subtotal Non-Hydrophytes}} =$				$\frac{67}{100} = \text{Percent Hydrophytes}$		

Describe Vegetation Disturbance: recent logging activity

**HYDROLOGY**

- Hydrology is often the most difficult feature to observe.
- Interpretation must consider the validity of the observation in light of the season, recent weather conditions, watershed alterations, etc.
- Interpretation of hydrology may require repeated observations over more than one season.

RECORDED DATA

Stream, lake, or tidal gage      Identification: \_\_\_\_\_

Aerial photography              Identification: \_\_\_\_\_

Other                                  Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water:   no free water observed  

Depth to Saturation (including capillary fringe):           soil saturated at mineral soil surface          

Altered Hydrology (explain):           no altered hydrology          

Inundated     Saturated in upper 12"     Water Marks     Drift Lines     Sediment Deposits

Drainage Patterns within Wetland     OTHER (explain):





Project Title: **Bowers Wind Project** Transect Number: **W177 (01RLJ)** Plot Number: **1 - Upland**

Delineators: **MJG, REL** Date: **11/11/2009**

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	NWI Status
<b>Trees:</b>				
	yellow birch ( <i>Betula alleghaniensis</i> )	1/2	50	FAC
	red maple ( <i>Acer rubrum</i> )	1/2	50	FAC
<b>Poles:</b>				
	red spruce ( <i>Picea rubens</i> )	1/1	100	FACU
<b>Shrubs:</b>				
	yellow birch ( <i>Betula alleghaniensis</i> )	60/108	56	FAC
	red maple ( <i>Acer rubrum</i> )	20/108	19	---
	red spruce ( <i>Picea rubens</i> )	18/108	17	---
	balsam fir ( <i>Abies balsamea</i> )	10/108	9	---
<b>Herbs:</b>				
	sensitive fern ( <i>Onoclea sensibilis</i> )	1/1	100	FACW

Note 1: Use asterisk \* to indicate plants with adaptations to wetland hydrology. Plants recorded with asterisks should be considered as "other hydrophytes" in the tally below.  
 Note 2: Species with NA or NI status are reported, but are not calculated in the tally below.

<u>0</u>	<u>1</u>	<u>3</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>
OBL	FACW	FAC	OTHER HYDROPHYTES	FAC-	FACU	UPL
Hydrophytes Subtotal: <u>4</u>				Non-hydrophytes Subtotal: <u>1</u>		
100 x Subtotal Hydrophytes				=	<u>80</u> = Percent Hydrophytes	
Subtotal Hydrophytes + Subtotal Non-Hydrophytes						

Describe Vegetation Disturbance: recent logging activity

**HYDROLOGY**

- Hydrology is often the most difficult feature to observe.
- Interpretation must consider the validity of the observation in light of the season, recent weather conditions, watershed alterations, etc.
- Interpretation of hydrology may require repeated observations over more than one season.

RECORDED DATA  
 Stream, lake, or tidal gage Identification: \_\_\_\_\_  
 Aerial photography Identification: \_\_\_\_\_  
 Other Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:  
 Depth to Free Water: no free water observed  
 Depth to Saturation (including capillary fringe): \_\_\_\_\_ soils not saturated \_\_\_\_\_  
 Altered Hydrology (explain): no altered hydrology

Inundated    Saturated in upper 12"    Water Marks    Drift Lines    Sediment Deposits  
 Drainage Patterns within Wetland    OTHER (explain): \_\_\_\_\_





Project Title: **Bowers Wind Project** Transect Number: **W177 (01RLJ)** Plot Number: **2-Wetland**

Delineators: **MJG, REL** Date: **11/12/2009**

VEGETATION	Stratum and Species	Dominance Ratio	Percent Dominance	NWI Status
<b>Trees:</b>				
	red spruce ( <i>Picea rubens</i> )	2/2	100	FACU
<b>Poles:</b>				
	red spruce ( <i>Picea rubens</i> )	5/6	83	FACU
	gray birch ( <i>Betula populifolia</i> )	1/6	17	
<b>Shrubs:</b>				
	red spruce ( <i>Picea rubens</i> )	10/13	77	FACU
	yellow birch ( <i>Betula alleghaniensis</i> )	2/13	15	
	balsam fir ( <i>Abies balsamea</i> )	1/13	8	
<b>Seedlings and Herbs:</b>				
	fowl mannagrass ( <i>Glyceria striata</i> )	50/105	48	OBL
	limp mannagrass ( <i>Glyceria xlaxa</i> )	30/105	29	OBL
	common wooldsedge ( <i>Scirpus cyperinus</i> )	10/105	10	
	cinnamon fern ( <i>Osmunda cinnamomea</i> )	15/105	14	

Note 1: Use asterisk \* to indicate plants with adaptations to wetland hydrology.

Plants recorded with asterisks should be considered as "other hydrophytes" in the tally below.

Note 2: Species with NA or NI status are reported, but are not calculated in the tally below.

<u>  2  </u>	<u>  0  </u>	<u>  0  </u>	<u>  0  </u>	<u>  0  </u>	<u>  3  </u>	<u>  0  </u>
OBL	FACW	FAC	OTHER HYDROPHYTES	FAC-	FACU	UPL
Hydrophytes Subtotal: <u>  2  </u>				Non-hydrophytes Subtotal: <u>  3  </u>		
100 x Subtotal Hydrophytes				=	Percent Hydrophytes	
Subtotal Hydrophytes + Subtotal Non-Hydrophytes						

Describe Vegetation Disturbance: recent logging activity

**HYDROLOGY**

- Hydrology is often the most difficult feature to observe.
- Interpretation must consider the validity of the observation in light of the season, recent weather conditions, watershed alterations, etc.
- Interpretation of hydrology may require repeated observations over more than one season.

RECORDED DATA

Stream, lake, or tidal gage Identification: \_\_\_\_\_

Aerial photography Identification: \_\_\_\_\_

Other Identification: \_\_\_\_\_

NO RECORDED DATA

OBSERVATIONS:

Depth to Free Water:   no free water observed  

Depth to Saturation (including capillary fringe):           soil saturated at mineral soil surface          

Altered Hydrology (explain):   no altered hydrology  

Inundated     Saturated in upper 12"     Water Marks     Drift Lines     Sediment Deposits

Drainage Patterns within Wetland     OTHER (explain):





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 195600522/ Bowers

City/County: Carroll Plt / Penobscot

Sampling Date: 9/14/2010

Applicant/Owner:

State: ME

Sampling Point: W209  
(01aak)

Investigator(s): ATA, EDB

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>  If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></b>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: no wetland hydrology observed		

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. <i>Betula alleghaniensis</i>	25	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	4 (A)
2. <i>Acer rubrum</i>	30	Yes	FAC	Total Number of Dominant Species Across All Strata:	7 (B)
3. <i>Tsuga canadensis</i>	50	Yes	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC:	57 (A/B)
4.					
5.					
6.					
7.					
	105	= Total Cover			
<u>Sapling/Shrub Stratum</u> (Plot size: 15')				<b>Prevalence Index worksheet:</b>	
1. <i>Betula alleghaniensis</i>	30	Yes	FAC	<u>Total % Cover of:</u>	<u>Multiply by:</u>
2. <i>Acer pennsylvanicum</i>	20	Yes	FACU	OBL Species	x 1 =
3. <i>Fagus grandifolia</i>	10	No	FACU	FACW Species	x 2 =
4. <i>Prunus pennsylvanica</i>	15	No	FACU	FAC Species	x 3 =
5.				FACU Species	x 4 =
6.				UPL species	x 5 =
7.				Column Totals	(A) (B)
	75	= Total Cover		Prevalence Index = B/A =	
<u>Herb Stratum</u> (Plot size: 5')				<b>Hydrophytic Vegetation Indicators:</b>	
1. <i>Dryopteris intermedia</i>	2	Yes	FACU	<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. <i>Rubus ideaus</i>	5	Yes	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
3. <i>Acer saccharum</i>	1	No	FACU		
4. <i>Acer pennsylvanicum</i>	1	No	FACU	<b>Definitions of Vegetation Strata:</b>	
5. <i>Fraxinus pennsylvanicum</i>	1	No	FACW	<b>Tree</b> – Woody plants 3 in. (76 cm) or more in diameter (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.	
6.					
7.					
8.					
9.					
10.					
11.					
12.					
	10	= Total Cover			
<u>Woody Vine Stratum</u> (Plot size: )				<b>Hydrophytic Vegetation Present?</b>	
1.				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
2.					
3.					
4.					
		= Total Cover			
Remarks (Include photo numbers here or on a separate sheet.):					



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: 195600522

City/County: Carroll Plt / Penobscot

Sampling Date: 9/14/2010

Applicant/Owner:

State: ME

Sampling Point: W209  
(01aak)

Investigator(s): ATA / EDB

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  If yes, optional Wetland Site ID: 01aak
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

**HYDROLOGY**

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b>
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): 1"	Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): 0"	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): 0" (includes capillary fringe)		
Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

**VEGETATION – Use scientific names of plants.**

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum</b> (Plot size: 30')																				
1. <i>Tsuga canadensis</i>	25	Yes	UPL	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)  Total Number of Dominant Species Across All Strata: 7 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 86 (A/B)																
2. <i>Betula alleghaniensis</i>	35	Yes	FAC																	
3. <i>Abies balsamea</i>	10	No	FAC																	
4. <i>Acer rubrum</i>	10	No	FACW																	
5.																				
6.																				
7.																				
	80	= Total Cover		<b>Prevalence Index worksheet:</b>  <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;"><u>Total % Cover of:</u></td> <td style="text-align: center;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL Species</td> <td style="text-align: right;">x 1 =</td> </tr> <tr> <td>FACW Species</td> <td style="text-align: right;">x 2 =</td> </tr> <tr> <td>FAC Species</td> <td style="text-align: right;">x 3 =</td> </tr> <tr> <td>FACU Species</td> <td style="text-align: right;">x 4 =</td> </tr> <tr> <td>UPL species</td> <td style="text-align: right;">x 5 =</td> </tr> <tr> <td>Column Totals</td> <td style="text-align: right;">(A) (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A =</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL Species	x 1 =	FACW Species	x 2 =	FAC Species	x 3 =	FACU Species	x 4 =	UPL species	x 5 =	Column Totals	(A) (B)	Prevalence Index = B/A =	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL Species	x 1 =																			
FACW Species	x 2 =																			
FAC Species	x 3 =																			
FACU Species	x 4 =																			
UPL species	x 5 =																			
Column Totals	(A) (B)																			
Prevalence Index = B/A =																				
<b>Sapling/Shrub Stratum</b> (Plot size: 15')																				
1. <i>Betula alleghaniensis</i>	25	Yes	FAC																	
2. <i>Abies balsamea</i>	10	Yes	FAC																	
3. <i>Acer spicatum</i>	5	No	FACU																	
4. <i>Fraxinus pennsylvanica</i>	2	No	FACW																	
5.																				
6.																				
7.																				
	42	= Total Cover		<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
<b>Herb Stratum</b> (Plot size: 5')																				
1. <i>Impatiens capensis</i>	40	Yes	FACW																	
2. <i>Chrysosplenium americanum</i>	50	Yes	OBL																	
3. <i>Hydrocotyle americana</i>	50	Yes	OBL																	
4. <i>Scutellaria laterifolia</i>	25	No	FACW																	
5. <i>Oclemena acuminata</i>	10	No																		
6. <i>Carex trisperma</i>	5	No	OBL																	
7. <i>Epilobium ciliatum</i>	2	No	FAC																	
8.																				
9.																				
10.																				
11.																				
12.																				
	182	= Total Cover		<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (76 cm) or more in diameter (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																
<b>Woody Vine Stratum</b> (Plot size: )																				
1.																				
2.																				
3.																				
4.																				
		= Total Cover																		
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				
Remarks (Include photo numbers here or on a separate sheet.):																				



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 195600522 / Bowers

City/County: Carroll Plt / Penobscot

Sampling Date: 8/3/2010

Applicant/Owner:

State: ME

Sampling Point: W288  
(10mai)

Investigator(s): MPA

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>  If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: no wetland hydrology observed		

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	
1. <i>Abies balsamea</i>	20	Yes	FAC	<b>Dominance Test worksheet:</b>  Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)  Total Number of Dominant Species Across All Strata: 7 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 71 (A/B)
2. <i>Acer rubrum</i>	20	Yes	FAC	
3. <i>Acer saccharum</i>	15	No	FACU	
4.				
5.				
6.				
7.				
	55	= Total Cover		<b>Prevalence Index worksheet:</b>  <div style="display: flex; justify-content: space-between;"> <span><u>Total % Cover of:</u></span> <span><u>Multiply by:</u></span> </div> OBL Species x 1 = FACW Species x 2 = FAC Species x 3 = FACU Species x 4 = UPL species x 5 = Column Totals (A) (B) Prevalence Index = B/A =
<u>Sapling/Shrub Stratum</u> (Plot size: 15')				
1. <i>Betula alleghaniensis</i>	5	No	FAC	
2. <i>Carpinus caroliniana</i>	15	Yes	FAC	
3. <i>Abies balsamea</i>	10	Yes	FAC	
4. <i>Acer rubrum</i>	15	Yes	FAC	
5. <i>Betula populifolia</i>	5	No	FAC	
6.				
7.				
	50	= Total Cover		
<u>Herb Stratum</u> (Plot size: 5')				
1. <i>Pteridium aquilinum</i>	60	Yes	FACU	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <i>Dennstaedtia punctilobula</i>	20	Yes	FACU	
3. <i>Maianthemum canadense</i>	10	No	FAC	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	90	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: )				
1.				<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (76 cm) or more in diameter (DBH), regardless of height. <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				
4.				
		= Total Cover		<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks (Include photo numbers here or on a separate sheet.):				



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 195600522 / Bowers

City/County: Carroll Plt / Penobscot

Sampling Date: 8/3/2010

Applicant/Owner:

State: ME

Sampling Point: W288  
(10mai)

Investigator(s): MPA

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  If yes, optional Wetland Site ID: 10mai
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches):	
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): 8	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): 0	
Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b>	
1. Fraxinus nigra	40	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	7 (A)
2. Betula alleghaniensis	35	Yes	FAC	Total Number of Dominant Species Across All Strata:	8 (B)
3. Acer rubrum	30	Yes	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC:	87.5 (A/B)
4. Populus tremuloides	25	No	FACU		
5. Fraxinus americana	15	No	FACU		
6.					
7.					
	145	= Total Cover			
<u>Sapling/Shrub Stratum</u> (Plot size: 15')				<b>Prevalence Index worksheet:</b>	
1. Alnus incana	30	Yes	FACW	<u>Total % Cover of:</u>	<u>Multiply by:</u>
2. Betula alleghaniensis	5	No	FAC	OBL Species	x 1 =
3. Fraxinus americana	15	Yes	FACU	FACW Species	x 2 =
4.				FAC Species	x 3 =
5.				FACU Species	x 4 =
6.				UPL species	x 5 =
7.				Column Totals	(A) (B)
				Prevalence Index = B/A =	
	50	= Total Cover		<b>Hydrophytic Vegetation Indicators:</b>	
				<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
				<input checked="" type="checkbox"/> Dominance Test is > 50%	
				<input type="checkbox"/> Prevalence Index is ≤ 3.0 <sup>1</sup>	
				<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
				<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
				<b>Definitions of Vegetation Strata:</b>	
				<b>Tree</b> – Woody plants 3 in. (76 cm) or more in diameter (DBH), regardless of height.	
				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	
				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.	
	130	= Total Cover		<b>Hydrophytic Vegetation Present?</b>	
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
<u>Woody Vine Stratum</u> (Plot size: )					
1.					
2.					
3.					
4.					
				= Total Cover	
Remarks (Include photo numbers here or on a separate sheet.):					



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 195600522 / Bowers

City/County: Carroll Plt / Penobscot

Sampling Date: 8/4/2010

Applicant/Owner:

State: ME

Sampling Point: W299  
(10mal)

Investigator(s): MPA

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>  If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: no wetland hydrology observed		





## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 195600522 / Bowers

City/County: Carroll Plt / Penobscot

Sampling Date: 8/4/2010

Applicant/Owner:

State: ME

Sampling Point: W299  
(10mal)

Investigator(s): MPA

Section, Township, Range:

Landform (hillslope, terrace, etc.):

Local relief (concave, convex, none):

Slope (%):

Lat:

Long:

Datum:

Soil Map Unit Name:

NWI Classification:

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in remarks)

Are Vegetation , Soil , or Hydrology  significantly disturbed?

Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic?

(If needed, explain any answers in Remarks)

### SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<b>Is the Sampled Area Within a wetland?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>  If yes, optional Wetland Site ID: 10mal
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Remarks (Explain alternative procedures here or in a separate report):		

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b>		<u>Secondary Indicators (minimum of two required)</u>
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
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<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b>		<b>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b>
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): 1"	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches):	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): 0"	
Describe Recorded Data (stream guage, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		



**SOIL**

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):																																												
Depth (Inches)	Matrix		Redox Features				Texture	Remarks																																				
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>																																						
13-0							organic																																					
0-3	2.5Y 3/1	100					silt loam																																					
3-5	2.5Y 4/1	95	2.5Y 6/1	5	D		silt loam	refusal @ 5"																																				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.																																												
<p><b>Hydric Soil Indicators:</b></p> <table border="0"> <tr> <td><input type="checkbox"/> Histosol (A1)</td> <td><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Histic Epipedon (A2)</td> <td><input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)</td> </tr> <tr> <td><input type="checkbox"/> Black Histic (A3)</td> <td><input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)</td> </tr> <tr> <td><input type="checkbox"/> Hydrogen Sulfide (A4)</td> <td><input type="checkbox"/> Loamy Gleyed Matrix (F2)</td> </tr> <tr> <td><input type="checkbox"/> Stratified Layers (A5)</td> <td><input type="checkbox"/> Depleted Matrix (F3)</td> </tr> <tr> <td><input type="checkbox"/> Depleted Below Dark Surface (A11)</td> <td><input type="checkbox"/> Redox Dark Surface (F7)</td> </tr> <tr> <td><input type="checkbox"/> Thick Dark Surface (A12)</td> <td><input type="checkbox"/> Depleted Dark Surface (F6)</td> </tr> <tr> <td><input type="checkbox"/> Sandy Mucky Mineral (S1)</td> <td><input type="checkbox"/> Redox Depressions (F8)</td> </tr> <tr> <td><input type="checkbox"/> Sandy Gleyed Matrix (S4)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Sandy Redox (S5)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Stripped Matrix (S6)</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)</td> <td></td> </tr> </table> <p><b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b></p> <table border="0"> <tr> <td><input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)</td> </tr> <tr> <td><input type="checkbox"/> Coast Prairie Redox (A16) (LRR, K, L, R)</td> </tr> <tr> <td><input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</td> </tr> <tr> <td><input type="checkbox"/> Dark Surface (S7) (LRR K, L)</td> </tr> <tr> <td><input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)</td> </tr> <tr> <td><input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)</td> </tr> <tr> <td><input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)</td> </tr> <tr> <td><input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149 B)</td> </tr> <tr> <td><input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)</td> </tr> <tr> <td><input type="checkbox"/> Red Parent Material (TF2)</td> </tr> <tr> <td><input type="checkbox"/> Very Shallow Dark Surface (TF12)</td> </tr> <tr> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> </table> <p><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>									<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input checked="" type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F7)	<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F6)	<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)		<input type="checkbox"/> Sandy Redox (S5)		<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)		<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR, K, L, R)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149 B)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	<input type="checkbox"/> Red Parent Material (TF2)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	<input type="checkbox"/> Other (Explain in Remarks)
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<p><b>Restrictive Layer (if observed):</b></p> <p>Type: rock or ledge</p> <p>Depth (inches): 18"</p>						<p><b>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b></p>																																						
<p><b>Remarks:</b></p>																																												