



Photo 77. Stream ZZ-2 looking downstream facing Northwest.



Photo 78. Stream ZZ-2 looking upstream facing Southeast.


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Photo 79. Stream AAA substrate.



Photo 80. Stream AAA looking downstream facing West.


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Photo 81. Interior of Wetland A facing west.



Photo 82. Facing east out from the interior of Wetland A; cottonwoods with watermarks visible in the background.


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Photo 83. Wetland B.



Photo 84. Wetland I facing northwest.


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Photo 85. Wetland J just south of State Route 36, facing northwest.



Photo 86. Wetland K just south of State Route 36, facing southwest.


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Photo 87. Wetland L along buried interconnect route between Turbines 28 and 33.



Photo 88. Wetland M looking northeast.


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Photo 89. Wetland N looking east.



Photo 90. Wetland Q facing north.


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Photo 91. Wetland T facing east along State Route 161.



Photo 92. Wetland U facing north.


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Photo 93. Wetland V facing north.



Photo 94. Wetland W facing East.


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Photo 95. Wetland FF facing East from State Route 56.



Photo 96. Wetland GG facing northwest.

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Photo 97. Wetland JJ facing northeast.



Photo 98. Wetland KK facing south.


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Photo 99. Wetland NN facing east.



Photo 100. Wetland KA facing southwest.



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Photo 101. Wetland KB facing east.

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## **APPENDIX B**

### Wetland Delineation Data Sheets



## Routine Wetland Determination Form

<b>Project/Site:</b> Ever Power Project <b>Applicant/Owner:</b> Ever Power Inc. <b>Investigators:</b> K. Carr	<b>Project #</b> EVP001	<b>Date:</b> 11/21/08 <b>County:</b> Champaign <b>State:</b> Ohio
Do Normal circumstances exist on the site? Yes Is the site significantly disturbed (Atypical Situation)? No Is the area a potential Problem Area: No	Sample Point # SP1 Site Location: Wetland A	

### VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 100 % FAC Neutral Test: 2 > 0 = Pass

### HYDROLOGY

<input type="checkbox"/> Recorded Data(Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other  <input checked="" type="checkbox"/> No Recorded Data  Field Observations Total Depth of Pit or Auger: 12 in.  Depth of Surface Water: - in.  Depth to Free Water in Pit: - in.  Depth to Saturated Soil: - in.	<b>Wetland Hydrology Indicators</b> <b>Primary Indicators</b> <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other(Explain in Remarks)
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### SOILS

Map Unit Name (Series and Phase): Celina silt loam, 2-6% slopes Map Symbol: CnB      Drainage Class: mwd      Map Unit Recognized as Hydric?: No Taxonomy (Subgroup): Aquic Hapludalfs      Field Observations Confirm Mapped Type? No					
Soil / Profile Description					
Depth bgs (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure
0-12	A/B	10YR 3 / 2	10YR 3 / 6	few/distinct	silty clay loam
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Histosol  <input type="checkbox"/> Histic Epipedon  <input type="checkbox"/> Sulfidic Odor  <input type="checkbox"/> Aquic Moisture Regime  <input checked="" type="checkbox"/> Reducing Conditions  <input type="checkbox"/> Gleyed or Low Chroma Colors         </div> <div style="width: 48%;"> <input type="checkbox"/> Concretions  <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils  <input type="checkbox"/> Organic Streaking in Sandy Soils  <input type="checkbox"/> Listed on Local Hydric Soils List  <input type="checkbox"/> Listed on National Hydric Soils List  <input type="checkbox"/> Other         </div> </div>					

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes Hydric Soils Present? Yes	Is the Sample Point within a Wetland? Yes
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**Remarks:** There was evidence of hydrophytic vegetation, wetland hydrology, and hydric soils at this sample location. This sample point is in a wetland.



Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #SP1**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Bidens frondosa	FACW	Herb	60	100%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	60		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	0		
Salix nigra	FACW+	Tree	40	100%	Yes
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	40		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		



## Routine Wetland Determination Form

<b>Project/Site:</b> Ever Power Project <b>Applicant/Owner:</b> Ever Power Inc. <b>Investigators:</b> K. Carr	<b>Project #</b> EVP001	<b>Date:</b> 11/21/08 <b>County:</b> Champaign <b>State:</b> Ohio
Do Normal circumstances exist on the site? Yes Is the site significantly disturbed (Atypical Situation)? No Is the area a potential Problem Area: No	Sample Point # SP3 Site Location: Wetland B	

### VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/3 = 67 % FAC Neutral Test: 3 > 0 = Pass

### HYDROLOGY

<input type="checkbox"/> Recorded Data(Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other  <input checked="" type="checkbox"/> No Recorded Data  Field Observations Total Depth of Pit or Auger: 12 in.  Depth of Surface Water:    - in.  Depth to Free Water in Pit: - in.  Depth to Saturated Soil:   - in.	<b>Wetland Hydrology Indicators</b> <b>Primary Indicators</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands  <b>Secondary Indicators</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other(Explain in Remarks)
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### SOILS

Map Unit Name (Series and Phase): Brookston silty clay loam 0-2% slopes Map Symbol: BsA      Drainage Class: vpd      Map Unit Recognized as Hydric?: Yes Taxonomy (Subgroup): Typic Argiaquolls      Field Observations Confirm Mapped Type? Yes					
Soil / Profile Description					
Depth bgs (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure
0-12	A/B	10YR 3 / 2	10YR 3 / 4	few/distinct	silty clay loam
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input checked="" 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 in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input checked="" type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other		

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes Hydric Soils Present? Yes	Is the Sample Point within a Wetland? Yes
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**Remarks:** There was evidence of hydrophytic vegetation and hydric soils at this sample location. Wetland hydrology was assumed due to vegetation and landscape position. However, soils were frozen at the time of evaluation; additional hydrology indicators may be present. This sample location is in a wetland.



Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
<i>Typha latifolia</i>	OBL	Herb	55	71%	Yes
<i>Bidens frondosa</i>	FACW	Herb	10	13%	
<i>Juncus effusus</i>	FACW+	Herb	5	6%	
<i>Phalaris arundinacea</i>	FACW+	Herb	5	6%	
<i>Solidago</i> sp.	unknown	Herb	2	3%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	77		
<i>Salix exigua</i>	OBL	Shrub/Sap	10	50%	Yes
<i>Cornus racemosa</i>	FAC-	Shrub/Sap	10	50%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	20		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	0		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		



## Routine Wetland Determination Form

<b>Project/Site:</b> Buckeye Wind Power Project <b>Applicant/Owner:</b> Everpower Inc. <b>Investigators:</b> H. Crowell; K. Carr; S.M Harrelson	<b>Project #</b> EVP001	<b>Date:</b> 5/22/2008 <b>County:</b> Champaign <b>State:</b> Ohio
Do Normal circumstances exist on the site? Yes Is the site significantly disturbed (Atypical Situation)? No Is the area a potential Problem Area: No	Sample Point # SP10 Site Location: Wetland H, Sheet 18	

### VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 100 % FAC Neutral Test: 2 > 0 = Pass

### HYDROLOGY

<input type="checkbox"/> Recorded Data(Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other  <input checked="" type="checkbox"/> No Recorded Data  Field Observations Total Depth of Pit or Auger: 12 in.  Depth of Surface Water: - in.  Depth to Free Water in Pit: - in.  Depth to Saturated Soil: 0 in.	<b>Wetland Hydrology Indicators</b> <b>Primary Indicators</b> <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other(Explain in Remarks)
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### SOILS

Map Unit Name (Series and Phase): Brookston silty clay loam, 0 to 2 percent slopes Map Symbol: BsA      Drainage Class: vpd      Map Unit Recognized as Hydric?: Yes Taxonomy (Subgroup): Typic Argiaquolls      Field Observations Confirm Mapped Type? Yes							
Soil / Profile Description							
Depth bgs (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure		
0-10	A/B	10YR 3 / 1	None				
10-12	B	10YR 3 / 1	10YR 3 / 4	common			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Histosol  <input type="checkbox"/> Histic Epipedon  <input type="checkbox"/> Sulfidic Odor  <input type="checkbox"/> Aquic Moisture Regime  <input type="checkbox"/> Reducing Conditions  <input checked="" type="checkbox"/> Gleyed or Low Chroma Colors         </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Concretions  <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils  <input type="checkbox"/> Organic Streaking in Sandy Soils  <input checked="" type="checkbox"/> Listed on Local Hydric Soils List  <input type="checkbox"/> Listed on National Hydric Soils List  <input type="checkbox"/> Other         </td> </tr> </table>						<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> 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 in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input checked="" type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> 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 in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input checked="" type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other						

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes Hydric Soils Present? Yes	Is the Sample Point within a Wetland? Yes
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**Remarks:**Hydrophytic vegetation, wetland hydrology, and hydric soils were observed at this sample location. This sample point is in a wetland.



Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #SP10**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Typha latifolia	OBL	Herb	15	21%	Yes
Carex vulpinoidea	OBL	Herb	25	34%	Yes
Aster/Solidago sp.	Assumed FACW	Herb	10	14%	
Vitis riparia	FACW	Herb	5	7%	
Festuca rubra	FACU	Herb	10	14%	
Cirsium arvense	FACU	Herb	8	11%	
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	73		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	0		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		



## Routine Wetland Determination Form

<b>Project/Site:</b> Buckeye Wind Power Project <b>Applicant/Owner:</b> Everpower Inc. <b>Investigators:</b> H. Crowell; S.M Harrelson	<b>Project #</b> EVP001	<b>Date:</b> 5/23/2008 <b>County:</b> Logan <b>State:</b> Ohio
Do Normal circumstances exist on the site? Yes Is the site significantly disturbed (Atypical Situation)? No Is the area a potential Problem Area: No	Sample Point # SP26 Site Location: Wetland I, Sheet 18	

### VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 1/1 = 100 % FAC Neutral Test: 1 > 0 = Pass

### HYDROLOGY

<input type="checkbox"/> Recorded Data(Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other  <input checked="" type="checkbox"/> No Recorded Data  Field Observations Total Depth of Pit or Auger: n/a in.  Depth of Surface Water: 10 in.  Depth to Free Water in Pit: - in.  Depth to Saturated Soil: - in.	<b>Wetland Hydrology Indicators</b> <b>Primary Indicators</b> <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands  <b>Secondary Indicators</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other(Explain in Remarks)
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### SOILS

Map Unit Name (Series and Phase): Celina silt loam, 2 to 6 percent slopes Map Symbol: CnB      Drainage Class: mwd      Map Unit Recognized as Hydric?: No Taxonomy (Subgroup): Aquic Hapludalfs      Field Observations Confirm Mapped Type? Not Determined					
Soil / Profile Description					
Depth bgs (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> 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 in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other		

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes Hydric Soils Present? Yes	Is the Sample Point within a Wetland? Yes
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**Remarks:** This sample point was dominated by true aquatic plants, therefore a complete soil analysis was not performed. Hydrophytic vegetation and wetland hydrology were observed at this sample location. This sample point is in a wetland.



Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #SP26**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Lemna minor	OBL	Herb	45	75%	Yes
Elodea canadensis	OBL	Herb	5	8%	
Potamogeton nodosus	OBL	Herb	10	17%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	60		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	0		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		

## Routine Wetland Determination Form

<b>Project/Site:</b> Buckeye Wind Power Project <b>Applicant/Owner:</b> Everpower Inc. <b>Investigators:</b> K. Carr; S.M Harrelson	<b>Project #</b> EVP001	<b>Date:</b> 5/21/2008 <b>County:</b> Champaign <b>State:</b> Ohio
Do Normal circumstances exist on the site? Yes Is the site significantly disturbed (Atypical Situation)? No Is the area a potential Problem Area: No	Sample Point # SP4a Site Location: Wetland J	

### VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

See attached sheet for listing of plant species and identification of dominant vegetation

Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 1/1 = 100 %  
 FAC Neutral Test: 1 > 0 = Pass

### HYDROLOGY

<input type="checkbox"/> Recorded Data(Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other  <input checked="" type="checkbox"/> No Recorded Data  Field Observations Total Depth of Pit or Auger: 12 in.  Depth of Surface Water: 1 in.  Depth to Free Water in Pit: - in.  Depth to Saturated Soil: 0 in.	<b>Wetland Hydrology Indicators</b> <b>Primary Indicators</b> <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands  <b>Secondary Indicators</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other(Explain in Remarks)
---	--

### SOILS

Map Unit Name (Series and Phase): Algiers silt loam Map Symbol: Ag      Drainage Class: spd      Map Unit Recognized as Hydric?: No Taxonomy (Subgroup): Aquic Udifluvents      Field Observations Confirm Mapped Type? No							
Soil / Profile Description							
Depth bgs (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure		
0-7	A or Ap	10YR 3 / 2	None		sticky clay with high organics		
8-12	A/B	10YR 3 / 2	10YR 4 / 4	very distinct	silty clay loam		
<table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Histosol  <input type="checkbox"/> Histic Epipedon  <input type="checkbox"/> Sulfidic Odor  <input type="checkbox"/> Aquic Moisture Regime  <input type="checkbox"/> Reducing Conditions  <input checked="" type="checkbox"/> Gleyed or Low Chroma Colors           </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Concretions  <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils  <input type="checkbox"/> Organic Streaking in Sandy Soils  <input type="checkbox"/> Listed on Local Hydric Soils List  <input type="checkbox"/> Listed on National Hydric Soils List  <input type="checkbox"/> Other           </td> </tr> </table>						<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> 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 in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> 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 in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other						

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes Hydric Soils Present? Yes	Is the Sample Point within a Wetland? Yes
--	---

**Remarks:** Hydrophytic vegetation, wetland hydrology, and hydric soils were observed at this sample location. This sample point is in a wetland.



Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #SP4a  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW+	Herb	90	100%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	90		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

## Routine Wetland Determination Form

<b>Project/Site:</b> Buckeye Wind Power Project <b>Applicant/Owner:</b> Everpower Inc. <b>Investigators:</b> K. Carr; S.M Harrelson	<b>Project #</b> EVP001	<b>Date:</b> 5/21/2008 <b>County:</b> Champaign <b>State:</b> Ohio
Do Normal circumstances exist on the site? Yes Is the site significantly disturbed (Atypical Situation)? No Is the area a potential Problem Area: No	Sample Point # SP5 Site Location: Wetland K, Sheet 19	

### VEGETATION (USFWS Northeast Region No.1, Sub-Region, Great Lakes Plain)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 100 % FAC Neutral Test: 2 > 0 = Pass

### HYDROLOGY

<input type="checkbox"/> Recorded Data(Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other  <input checked="" type="checkbox"/> No Recorded Data  Field Observations Total Depth of Pit or Auger: 12 in.  Depth of Surface Water: 1 in.  Depth to Free Water in Pit: - in.  Depth to Saturated Soil: 0 in.	<b>Wetland Hydrology Indicators</b> <b>Primary Indicators</b> <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands  <b>Secondary Indicators</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other(Explain in Remarks)
---	--

### SOILS

Map Unit Name (Series and Phase): Miami silt loam, 6-12% slopes, moderately eroded Map Symbol: MIC2      Drainage Class: wd      Map Unit Recognized as Hydric?: No Taxonomy (Subgroup): Typic Hapludalfs      Field Observations Confirm Mapped Type? No							
Soil / Profile Description							
Depth bgs (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure		
0-7	A or Ap	10YR 3 / 2	None		clayey silt with high organics		
8-12	A/B	10YR 3 / 2	10YR 4 / 4	very distinct	silty clay loam		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Histosol  <input type="checkbox"/> Histic Epipedon  <input type="checkbox"/> Sulfidic Odor  <input type="checkbox"/> Aquic Moisture Regime  <input type="checkbox"/> Reducing Conditions  <input checked="" type="checkbox"/> Gleyed or Low Chroma Colors         </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Concretions  <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils  <input type="checkbox"/> Organic Streaking in Sandy Soils  <input type="checkbox"/> Listed on Local Hydric Soils List  <input type="checkbox"/> Listed on National Hydric Soils List  <input type="checkbox"/> Other         </td> </tr> </table>						<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> 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 in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> 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 in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other						

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes Hydric Soils Present? Yes	Is the Sample Point within a Wetland? Yes
--	---

**Remarks:** Hydrophytic vegetation, wetland hydrology, and hydric soils were observed at this sample location. This sample point is in a wetland.



Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #SP5**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW+	Herb	30	41%	Yes
Aster/Solidago sp.	Assumed FACW	Herb	40	54%	Yes
Populus deltoides	FAC	Herb	2	3%	
Rumex orbiculatus	OBL	Herb	2	3%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	74		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	0		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		

# Routine Wetland Determination Form

<b>Project/Site:</b> Buckeye Wind Power		<b>City/County:</b> Champaign		<b>Sampling Date:</b> 8/12/2009	
<b>Applicant/Owner:</b> EverPower		<b>State:</b> Ohio		<b>Sampling Point:</b> SP30	
<b>Investigator(s):</b> K. Carr; S.M. Harrelson		<b>Section, Township, Range:</b> : Union Twp			
Landform (hillslope, terrace, etc.): flat			Local relief (concave, convex, none): none		
Slope (%):0		Lat: 40.08757034020		Long: -83.58088603750	
Datum: NAD83					
Soil Map Unit Name: Algiers silt loam				NW1 classification: none	
Are climatic/hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.)					
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed? Are "Normal Circumstances" present? Yes					
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks.)No					

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

Hydrophytic Vegetation Present?	Yes	<b>Is the Sampled Area within a Wetland?</b> Yes
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	
Remarks: This is Wetland L. There was evidence of hydrophytic vegetation, hydric soil, and wetland hydrology at this sample location. This sample point is in a wetland. Figure 10.		

**VEGETATION** (USFWS Region No. 1 - Northeast Sub-Region)

<p align="center"><b>See attached sheet for listing of plant species and identification of dominant vegetation</b></p>	
<p>Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 3/3 = 100 %</p>	
<p>FAC Neutral Test: 3 &gt; 0 = Pass</p>	
<p>Prevalence Index =</p>	
<p>Remarks: This plant community is hydrophytic.</p>	

**SOIL** **LRR: M**

[illegible]

<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

### Hydric Soil Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)           |
| <input type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Sandy Redox (S5)                   |
| <input type="checkbox"/> Black Histic (A3)                 | <input type="checkbox"/> Stripped Matrix (S6)               |
| <input type="checkbox"/> Hydrogen Sulfide (A4)             | <input type="checkbox"/> Loamy Mucky Mineral (F1)           |
| <input type="checkbox"/> Stratified Layers (A5)            | <input type="checkbox"/> Loamy Gleyed Matrix (F3)           |
| <input type="checkbox"/> 2 cm Muck (A10)                   | <input type="checkbox"/> Depleted Matrix (F3)               |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Depleted Dark Surface (F7)         |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)          | <input type="checkbox"/> Redox Depressions (F8)             |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)      |   |

### Indicators for Problematic Hydric Soils<sup>3</sup>:

- ☐ Coast Prairie Redox (A16)  
☐ Iron-Manganese Masses (F12)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches):	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> Soil Spade
<b>Remarks:</b> There was evidence of hydric soils.	



# Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 8/12/2009

**Sampling Point:** SP30

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☒ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B2)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ Presence of Reduced Iron (C4)

☐ Recent Iron Reduction in Tilled Soils (C6)

☐ Thin Muck Surface (C7)

☐ Gauge or Well Data (D9)

☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry-Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

☐ Other (Explain in Remarks)

### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    No    Depth (Inches):

Saturation Present?    Yes    Depth (Inches): 0  
(includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

☐ Stream, Lake, or Tide Gauge

☐ Aerial Photographs

☐ Other

☒ No Recorded Data

Remarks: There was evidence of primary or secondary wetland hydrology.

Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #SP30**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
<i>Typha latifolia</i>	OBL	Herb	30	25%	Yes
<i>Ipomoea pandurata</i>	FACU	Herb	20	17%	
<i>Aster lateriflorus</i>	FACW-	Herb	30	25%	Yes
<i>Vernonia gigantea</i>	FAC	Herb	8	7%	
<i>Agrimonia parviflora</i>	FAC	Herb	5	4%	
<i>Phalaris arundinacea</i>	FACW+	Herb	25	21%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	118		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	0		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		



# Routine Wetland Determination Form

<b>Project/Site:</b> Ever Power Project - Wetland M <b>Applicant/Owner:</b> Ever Power Inc. <b>Investigator(s):</b> B.M. Falkinburg / H.F. Crowell		<b>City/County:</b> Champaign <b>State:</b> OH <b>Section, Township, Range:</b> :		<b>Sampling Date:</b> 6/29/2011 <b>Sampling Point:</b> SP32
<b>Landform (hillslope, terrace, etc.):</b> Slope (%):                      Lat:                      Long:		<b>Local relief (concave, convex, none):</b> Concave Datum:		
<b>Soil Map Unit Name:</b> BsA, Brookston silty clay loam, 0-2% slopes		<b>NWI classification:</b>		
Are climatic/hydrologic conditions on the site typical for this time of year?    Yes    (If no, explain in Remarks.)				
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed?    Are "Normal Circumstances" present?    Yes				
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks.)No				

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?                    Yes Wetland Hydrology Present?        Yes	Is the Sampled Area within a Wetland?            Yes
Remarks: The required wetland criteria have been met.	

**VEGETATION** (USFWS Region No. 1 - Northeast Sub-Region)

See attached sheet for listing of plant species and identification of dominant vegetation	
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 1/1 = 100 %	
FAC Neutral Test: 1 > 0 = Pass	
Prevalence Index =	
Remarks: The hydrophytic vegetation criterion has been met.	

## SOIL LRR: M

<b>Profile Description:</b> (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
<b>Depth</b>	<b>Matrix</b>		<b>Redox Features</b>					
(Inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1	2.5Y3 / 3	100					silt loam	
1-13	2.5Y4 / 2	80	7.5YR 3 / 4	20			silt loam	

<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

### Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)  
☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F3)  
☒ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

---

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches):	<b>Hydric Soil Present?</b> Yes  <b>Soil pit dug?</b> Yes  <b>(if yes select one):</b> 1" Probe
<b>Remarks:</b> The Hydric Soil Criterion has been met.	

# Routine Wetland Determination Form

**PAGE 2**

Sampling Date: 6/29/2011

Sampling Point: SP32

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Surface Water (A1)<br><input type="checkbox"/> High Water Table (A2)<br><input type="checkbox"/> Saturation (A3)<br><input type="checkbox"/> Water Marks (B1)<br><input type="checkbox"/> Sediment Deposits (B2)<br><input type="checkbox"/> Drift Deposits (B2)<br><input type="checkbox"/> Algal Mat or Crust (B4)<br><input type="checkbox"/> Iron Deposits (B5)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input checked="" type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> True Aquatic Plants (B14)<br><input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Gauge or Well Data (D9)<br><input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5)<br><input type="checkbox"/> Other (Explain in Remarks) |
|--|--|--|

### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    No    Depth (Inches):

Saturation Present?    No    Depth (Inches):  
 (includes capillary fringe)

**Wetland Hydrology Present?    Yes**

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: The wetland hydrology criterion has been met.

Wetland appears to be isolated with no observed inlet or outlet.

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT # SP32  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW+	Herb	97	97%	Yes
Carex tribuloides	FACW+	Herb	1	1%	
Carex vulpinoidea	OBL	Herb	1	1%	
Glyceria striata	OBL	Herb	1	1%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		



## Routine Wetland Determination Form

<b>Project/Site:</b> Ever Power Project - Wetland N <b>Applicant/Owner:</b> Ever Power Inc. <b>Investigator(s):</b> B.M. Falkinburg / H.F. Crowell		<b>City/County:</b> Champaign <b>State:</b> OH <b>Section, Township, Range:</b> :		<b>Sampling Date:</b> 6/29/2011 <b>Sampling Point:</b> SP33
<b>Landform (hillslope, terrace, etc.):</b> Swale <b>Slope (%):</b> <b>Lat:</b> <b>Long:</b> <b>Datum:</b>		<b>Local relief (concave, convex, none):</b> Concave		
<b>Soil Map Unit Name:</b> BsA, Brookston silty clay loam, 0-2% slopes		<b>NWI classification:</b>		
<b>Are climatic/hydrologic conditions on the site typical for this time of year?</b> Yes    (If no, explain in Remarks.)				
<b>Are Vegetation</b> <input type="checkbox"/> <b>, Soil</b> <input checked="" type="checkbox"/> <b>, or Hydrology</b> <input type="checkbox"/> <b>significantly disturbed?</b> Are "Normal Circumstances" present?    No				
<b>Are Vegetation</b> <input type="checkbox"/> <b>, Soil</b> <input type="checkbox"/> <b>, or Hydrology</b> <input type="checkbox"/> <b>naturally problematic?</b> (If needed, explain any answers in Remarks.) No				

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?                    No Wetland Hydrology Present?        Yes	Is the Sampled Area within a Wetland?                    Yes
Remarks: Recently graded drainage swale (w/in 12 months) - man made or man-induced wetland comprised of a grassy waterway in agriculture field with dominance of hydrophytic vegetation and evidence of hydrology, but disturbed and mixed soils. BsA is an NRCS mapped hydric soil unit for Champaign County, Ohio. Thus, the required wetland criteria have been met.	

**VEGETATION** (USFWS Region No. 1 - Northeast Sub-Region)

<p>See attached sheet for listing of plant species and identification of dominant vegetation</p>	
<p>Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 3/3 = 100 %</p>	
<p>FAC Neutral Test: 2 &gt; 0 = Pass</p>	
<p>Prevalence Index =</p>	
<p>Remarks: The hydrophytic vegetation criterion has been met.</p>	

## SOIL LRR: M

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix		Redox Features				Texture	Remarks
(Inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12							silty clay loam	mixed sub/soil fill

<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

**Hydric Soil Indicators:**

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Mucky Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F3)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

☐ Coast Prairie Redox (A16)

☐ Iron-Manganese Masses (F12)

☒ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<p><b>Restrictive Layer (if observed):</b></p> <p>Type:</p> <p>Depth: (inches):</p> <p><b>Remarks:</b> Sample Plot within a mapped hydric soil unit, soil sample mixed and disturbed, man-induced wetland per 1987 manual. Assumed hydric soils.</p>	<p><b>Hydric Soil Present?</b>    Yes</p> <p><b>Soil pit dug?</b>        Yes</p> <p><b>(if yes select one):</b>    1" Probe</p>
--	---

## Routine Wetland Determination Form

**PAGE 2**

Sampling Date: 6/29/2011

Sampling Point: SP33

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

Secondary Indicators (minimum of two required)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Water-Stained Leaves (B9)                  | <input checked="" type="checkbox"/> Surface Soil Cracks (B6)       |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Aquatic Fauna (B13)                        | <input checked="" type="checkbox"/> Drainage Patterns (B10)        |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> True Aquatic Plants (B14)                  | <input type="checkbox"/> Dry-Season Water Table (C2)               |
| <input type="checkbox"/> Water Marks (B1)                          | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                 | <input type="checkbox"/> Crayfish Burrows (C8)                     |
| <input checked="" type="checkbox"/> Sediment Deposits (B2)         | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Drift Deposits (B2)                       | <input type="checkbox"/> Presence of Reduced Iron (C4)              | <input type="checkbox"/> Geomorphic Position (D2)                  |
| <input type="checkbox"/> Algal Mat or Crust (B4)                   | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)          |
| <input type="checkbox"/> Iron Deposits (B5)                        | <input type="checkbox"/> Thin Muck Surface (C7)                     | <input type="checkbox"/> Other (Explain in Remarks)                |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9)                    |  |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   | <input type="checkbox"/> Other (Explain in Remarks)                 |  |

#### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    No    Depth (Inches):

Saturation Present?    No    Depth (Inches):  
(includes capillary fringe)

Wetland Hydrology Present?    Yes

#### ☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: The wetland hydrology criterion has been met.

Wetland appears to be non-isolated, outlets to wetland ditch in upland woods to east and eventually drains through agriculture fields off site to Stream S.

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT # SP33  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Echinochloa muricata	FACW+	Herb	90	90%	Yes
Eleocharis obtusa	OBL	Herb	8	8%	
Carex squarrosa	FACW	Herb	2	2%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
Salix nigra	FACW+	Shrub/Sap	1	50%	Yes
Populus deltoides	FAC	Shrub/Sap	1	50%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	2		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		



## Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase I <b>Applicant/Owner:</b> Everpower <b>Investigator(s):</b> BMF	<b>City/County:</b> Champaign Co. <b>State:</b> OH <b>Section, Township, Range:</b> :	<b>Sampling Date:</b> 10/11/11 <b>Sampling Point:</b> SP39
Landform (hillslope, terrace, etc.): swale Slope (%): 12-18      Lat: 40.15260      Long: 83.66706      Datum: WGS 1984 Soil Map Unit Name: Miami silt loam      NWI classification: None		
Are climatic/hydrologic conditions on the site typical for this time of year?    Yes    (If no, explain in Remarks.) Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed?    Are "Normal Circumstances" present?    Yes Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks). No		

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?    Yes Wetland Hydrology Present?    Yes	<b>Is the Sampled Area within a Wetland?</b> Yes
Remarks: PEM Linear Wetland, non-isolated, 8 flags, Wetland Q	

### VEGETATION (USFWS Region No. 1 - Northeast Sub-Region)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 100 % FAC Neutral Test: 2 > 0 = Pass Prevalence Index = 2.10 Remarks: Hydrophytic plant community is present

### SOIL LRR: M

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-3	10YR 3 / 2	100					silty clay	
3-5								soil colors mixed, disturbed
5-12	10YR 5 / 2	70	10YR 5 / 6	30			silty clay	damp, not saturated

<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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F3) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
---	---	--

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches): <b>Remarks:</b> Hydric soil is present	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
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## Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 10/11/11

**Sampling Point:** SP39

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- |  |   |
|--|---|
| <input type="checkbox"/> Surface Water (A1)<br><input type="checkbox"/> High Water Table (A2)<br><input type="checkbox"/> Saturation (A3)<br><input type="checkbox"/> Water Marks (B1)<br><input type="checkbox"/> Sediment Deposits (B2)<br><input type="checkbox"/> Drift Deposits (B2)<br><input type="checkbox"/> Algal Mat or Crust (B4)<br><input type="checkbox"/> Iron Deposits (B5)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> True Aquatic Plants (B14)<br><input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Gauge or Well Data (D9)<br><input type="checkbox"/> Other (Explain in Remarks) |
|--|---|

Secondary Indicators (minimum of two required)

- |   |  |
|---|--|
| <input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) | <input checked="" type="checkbox"/> Geomorphic Position (D2)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5)<br><input type="checkbox"/> Other (Explain in Remarks) |
|---|--|

#### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    No    Depth (Inches):

Saturation Present?    No    Depth (Inches):  
 (includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Two secondary indicators of hydrology are present

Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #SP39**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Cyperus esculentus	FACW	Herb	50	50%	Yes
Echinochloa crusgalli	FACU	Herb	5	5%	
Polygonum pensylvanicum	FACW	Herb	10	10%	
Aster lateriflorus	FACW-	Herb	20	20%	Yes
Poa palustris	FACW	Herb	13	13%	
Eupatorium perfoliatum	FACW+	Herb	2	2%	
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	0		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		



## Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase I <b>Applicant/Owner:</b> Everpower <b>Investigator(s):</b> BMF	<b>City/County:</b> Champaign Co. <b>State:</b> OH <b>Section, Township, Range:</b> :	<b>Sampling Date:</b> 10/13/11 <b>Sampling Point:</b> SP43
Landform (hillslope, terrace, etc.): Slope (%): 0-2      Lat: 40.08898      Long: 83.603669      Datum: WGS 1984 Soil Map Unit Name: Brookston silty clay loam      NWI classification: PEM1C		
Are climatic/hydrologic conditions on the site typical for this time of year?    Yes    (If no, explain in Remarks.) Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed? Are "Normal Circumstances" present?    Yes Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks). No		

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?                      Yes Wetland Hydrology Present?            Yes	<b>Is the Sampled Area within a Wetland?</b> Yes
Remarks: Wetland T, ten flags, isolated	

### VEGETATION (USFWS Region No. 1 - Northeast Sub-Region)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 3/3 = 100 % FAC Neutral Test: 3 > 0 = Pass Prevalence Index = Remarks: Hydrophytic plant community is present

### SOIL LRR: M

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-6	2.5Y5 / 1	80	2.5Y4 / 2	20			SILT LOAM	DAMP
6-12	2.5Y4 / 1	90	2.5Y5 / 2	10			SILT LOAM	CONCENTRATIONS

<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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F3) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
---	---	--

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches):	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
Remarks: Hydric soil is present	

## Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 10/13/11

**Sampling Point:** SP43

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- |  |   |
|--|---|
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Water-Stained Leaves (B9)                  |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Aquatic Fauna (B13)                        |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> True Aquatic Plants (B14)                  |
| <input type="checkbox"/> Water Marks (B1)                          | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                 |
| <input type="checkbox"/> Sediment Deposits (B2)                    | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B2)                       | <input type="checkbox"/> Presence of Reduced Iron (C4)              |
| <input type="checkbox"/> Algal Mat or Crust (B4)                   | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5)                        | <input type="checkbox"/> Thin Muck Surface (C7)                     |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9)                    |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   | <input type="checkbox"/> Other (Explain in Remarks)                 |

Secondary Indicators (minimum of two required)

- |   |
|---|
| <input type="checkbox"/> Surface Soil Cracks (B6)                             |
| <input type="checkbox"/> Drainage Patterns (B10)                              |
| <input type="checkbox"/> Dry-Season Water Table (C2)                          |
| <input type="checkbox"/> Crayfish Burrows (C8)                                |
| <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input checked="" type="checkbox"/> Geomorphic Position (D2)                  |
| <input checked="" type="checkbox"/> FAC-Neutral Test (D5)                     |
| <input type="checkbox"/> Other (Explain in Remarks)                           |

#### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    No    Depth (Inches):

Saturation Present?    No    Depth (Inches):  
(includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Three secondary indicators of wetland hydrology are present.

Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #43**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
<i>Typha latifolia</i>	OBL	Herb	55	55%	Yes
<i>Polygonum pensylvanicum</i>	FACW	Herb	30	30%	Yes
<i>Cyperus esculentus</i>	FACW	Herb	3	3%	
<i>Lactuca serriola</i>	FAC-	Herb	10	10%	
<i>Echinochloa crusgalli</i>	FACU	Herb	1	1%	
<i>Setaria faberi</i>	UPL	Herb	1	1%	
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	100		
<i>Acer saccharinum</i>	FACW	Shrub/Sap	10	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	10		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	0		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		



## Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase I <b>Applicant/Owner:</b> Everpower <b>Investigator(s):</b> BMF	<b>City/County:</b> Champaign Co. <b>State:</b> OH <b>Section, Township, Range:</b> :	<b>Sampling Date:</b> 10/13/11 <b>Sampling Point:</b> SP44
Landform (hillslope, terrace, etc.): Slope (%): 0-2      Lat: 40.08450      Long: 83.601255      Datum: WGS 1984 Soil Map Unit Name: Brookston silty clay loam      NWI classification: None		
Are climatic/hydrologic conditions on the site typical for this time of year?    Yes    (If no, explain in Remarks.) Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed? Are "Normal Circumstances" present?    Yes Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks). No		

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?                      Yes Wetland Hydrology Present?            Yes	<b>Is the Sampled Area within a Wetland?</b> Yes
Remarks: Wetland U, 5 flags, isolated	

### VEGETATION (USFWS Region No. 1 - Northeast Sub-Region)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 75 % FAC Neutral Test: 1 > 0 = Pass Prevalence Index = Remarks: Hydrophytic plant community is present

### SOIL LRR: M

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-7	10YR 3 / 1	85	10YR 4 / 4	15			SILT LOAM	DAMP
7-12	2.5Y3 / 1	95	2.5Y5 / 3	5			SILTY CLAY	DAMP

<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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F3) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
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<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches): <b>Remarks:</b> Hydric soil is present	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
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# Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 10/13/11

**Sampling Point:** SP44

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

Secondary Indicators (minimum of two required)

- |  |   |   |
|--|---|---|
| <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"/> True Aquatic Plants (B14)                  | <input type="checkbox"/> Dry-Season Water Table (C2)                          |
| <input type="checkbox"/> Water Marks (B1)                          | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                 | <input type="checkbox"/> Crayfish Burrows (C8)                                |
| <input type="checkbox"/> Sediment Deposits (B2)                    | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Drift Deposits (B2)                       | <input type="checkbox"/> Presence of Reduced Iron (C4)              | <input type="checkbox"/> Geomorphic Position (D2)                             |
| <input type="checkbox"/> Algal Mat or Crust (B4)                   | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)                     |
| <input type="checkbox"/> Iron Deposits (B5)                        | <input type="checkbox"/> Thin Muck Surface (C7)                     | <input type="checkbox"/> Other (Explain in Remarks)                           |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9)                    |   |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   | <input type="checkbox"/> Other (Explain in Remarks)                 |   |

### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    No    Depth (Inches):

Saturation Present?    No    Depth (Inches):  
(includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Two secondary hydrologic indicators are present.

Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #44**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Lactuca serriola	FAC	Herb	15	20%	Yes
Typha latifolia	OBL	Herb	40	47%	Yes
Echinochloa muricata	FACW+	Herb	5	6%	
Epilobium coloratum	OBL	Herb	20	10%	
Lycopus uniflorus	OBL	Herb	5	1%	
Setaria faberi	UPL	Herb	1	1%	
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	86		
Ulmus americana	FACW-	Shrub/Sap	3	100%	No
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	3		
Fraxinus pennsylvanica	FACW	Tree	1	100%	No
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	1		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		

## Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase I <b>Applicant/Owner:</b> Everpower <b>Investigator(s):</b> BMF	<b>City/County:</b> Champaign Co. <b>State:</b> OH <b>Section, Township, Range:</b> :	<b>Sampling Date:</b> 10/13/11 <b>Sampling Point:</b> SP45
Landform (hillslope, terrace, etc.): Slope (%): 0-3      Lat: 40.06022      Long: 83.60437      Datum: WGS 1984 Soil Map Unit Name: Wea silt loam      NWI classification: PEM1A		
Are climatic/hydrologic conditions on the site typical for this time of year?    Yes    (If no, explain in Remarks.) Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed?    Are "Normal Circumstances" present?    Yes Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks). No		

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?    Yes Wetland Hydrology Present?    Yes	<b>Is the Sampled Area within a Wetland?</b> Yes
Remarks: Wetland V, isolated	

### VEGETATION (USFWS Region No. 1 - Northeast Sub-Region)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 100 % FAC Neutral Test: 2 > 0 = Pass Prevalence Index = Remarks: Hydrophytic plant community is present

### SOIL LRR: M

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 3 / 1	100					silty clay	

<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  
**Hydric Soil Indicators:**  

☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5)  
☐ 2 cm Muck (A10)  
☐ Depleted Below Dark Surface (A11)  
☒ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)  
☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F3)  
☐ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**  
☐ Coast Prairie Redox (A16)  
☐ Iron-Manganese Masses (F12)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches): Remarks: Hydric soil is present	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
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# Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 10/13/11

**Sampling Point:** SP45

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Water-Stained Leaves (B9)                  |
| <input checked="" type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Aquatic Fauna (B13)                        |
| <input checked="" type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> True Aquatic Plants (B14)                  |
| <input type="checkbox"/> Water Marks (B1)                                     | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                 |
| <input type="checkbox"/> Sediment Deposits (B2)                               | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B2)                                  | <input type="checkbox"/> Presence of Reduced Iron (C4)              |
| <input type="checkbox"/> Algal Mat or Crust (B4)                              | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5)                                   | <input type="checkbox"/> Thin Muck Surface (C7)                     |
| <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9)                    |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)              | <input type="checkbox"/> Other (Explain in Remarks)                 |

Secondary Indicators (minimum of two required)

- |  |
|--|
| <input type="checkbox"/> Surface Soil Cracks (B6)                  |
| <input type="checkbox"/> Drainage Patterns (B10)                   |
| <input type="checkbox"/> Dry-Season Water Table (C2)               |
| <input type="checkbox"/> Crayfish Burrows (C8)                     |
| <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Geomorphic Position (D2)                  |
| <input checked="" type="checkbox"/> FAC-Neutral Test (D5)          |
| <input type="checkbox"/> Other (Explain in Remarks)                |

### Field Observations:

Surface Water Present?    Yes    Depth (Inches): 12"

Water Table Present?    Yes    Depth (Inches): Surface

Saturation Present?    Yes    Depth (Inches): Surface  
(includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Four primary and one secondary indicator of wetland hydrology are present.

Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #45**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Typha latifolia	FACW	Herb	35	35%	Yes
Echinochloa muricata	FACW+	Herb	30	30%	Yes
Leersia oryzoides	OBL	Herb	10	10%	
Schoenoplectus tabernaemontani	OBL	Herb	5	5%	
Lemna minor	OBL	Herb	5	5%	
Bidens cernua	OBL	Herb	15	15%	
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	100		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	0		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		

# Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase II	<b>City/County:</b> Champaign Co.	<b>Sampling Date:</b> 10/17/11
<b>Applicant/Owner:</b> Everpower	<b>State:</b> OH	<b>Sampling Point:</b> SP46
<b>Investigator(s):</b> BMF	<b>Section, Township, Range:</b> :	
<b>Landform (hillslope, terrace, etc.):</b> Slope (%):0-2      Lat: 40.14753      Long: 83.620391		<b>Local relief (concave, convex, none):</b> CONCAVE Datum: WGS 1984
<b>Soil Map Unit Name:</b> Brookston silty clay loam		<b>NWI classification:</b> PEM1C
Are climatic/hydrologic conditions on the site typical for this time of year?    Yes    (If no, explain in Remarks.)		
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed? Are "Normal Circumstances" present?    Yes		
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks.)No		

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

<p><b>SUMMARY FINDINGS</b> - Attach site map showing sampling point locations, transects, important features, etc.</p>	
<p>Hydrophytic Vegetation Present?    Yes</p> <p>Hydric Soil Present?                    Yes</p> <p>Wetland Hydrology Present?        Yes</p>	<p><b>Is the Sampled Area</b></p> <p><b>within a Wetland?</b>                    Yes</p>
<p>Remarks: In a pasture, low spot, concave surface, isolated; Wetland W, 6 flags</p>	

**VEGETATION** (USFWS Region No. 1 - Northeast Sub-Region)

<p>See attached sheet for listing of plant species and identification of dominant vegetation</p> <p>Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = <math>3/4 = 75\%</math></p> <p>FAC Neutral Test: <math>3 &gt; 1 = \text{Pass}</math></p> <p>Prevalence Index =</p> <p>Remarks: Hydrophytic plant community is present</p>	
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## SOIL LRR: M

<b>Profile Description:</b> (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Matrix			Redox Features					
Depth (Inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	2.5Y3 / 1	100					silt loam	damp

<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

**Hydric Soil Indicators:**  
☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5)  
☐ 2 cm Muck (A10)  
☐ Depleted Below Dark Surface (A11)  
☒ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)  
☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F3)  
☐ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches):  <b>Remarks:</b> Hydric soil is present	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
--	---

## Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 10/17/11

**Sampling Point:** SP46

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

Secondary Indicators (minimum of two required)

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1)<br><input type="checkbox"/> High Water Table (A2)<br><input type="checkbox"/> Saturation (A3)<br><input type="checkbox"/> Water Marks (B1)<br><input type="checkbox"/> Sediment Deposits (B2)<br><input type="checkbox"/> Drift Deposits (B2)<br><input type="checkbox"/> Algal Mat or Crust (B4)<br><input type="checkbox"/> Iron Deposits (B5)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> True Aquatic Plants (B14)<br><input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Gauge or Well Data (D9)<br><input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Surface Soil Cracks (B6)<br><input type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input checked="" type="checkbox"/> Geomorphic Position (D2)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5)<br><input type="checkbox"/> Other (Explain in Remarks) |
|--|---|--|

#### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    No    Depth (Inches):

Saturation Present?    No    Depth (Inches):  
 (includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Three secondary hydrologic indicators are present



Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #46  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Eleocharis obtusa	OBL	Herb	15	25%	Yes
Bidens cernua	OBL	Herb	15	25%	Yes
Polygonum hydropiperoides	OBL	Herb	15	25%	Yes
Echinochloa crusgalli	FACU	Herb	15	25%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	60		
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	0		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		

# Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase II	<b>City/County:</b> Champaign Co.	<b>Sampling Date:</b> 10/20/11
<b>Applicant/Owner:</b> Everpower	<b>State:</b> OH	<b>Sampling Point:</b> SP57
<b>Investigator(s):</b> BMF	<b>Section, Township, Range:</b> :	
<b>Landform (hillslope, terrace, etc.):</b>		<b>Local relief (concave, convex, none):</b>
<b>Slope (%)</b> :0-2	<b>Lat:</b> 40.068687	<b>Long:</b> 83.624228
		<b>Datum:</b> WGS 1984
<b>Soil Map Unit Name:</b> Brookston silty clay loam		<b>NWI classification:</b> None
<b>Are climatic/hydrologic conditions on the site typical for this time of year?</b> Yes (If no, explain in Remarks.)		
<b>Are Vegetation</b> <input type="checkbox"/> , <b>Soil</b> <input type="checkbox"/> , <b>or Hydrology</b> <input type="checkbox"/> <b>significantly disturbed?</b> <b>Are "Normal Circumstances" present?</b> Yes		
<b>Are Vegetation</b> <input type="checkbox"/> , <b>Soil</b> <input type="checkbox"/> , <b>or Hydrology</b> <input type="checkbox"/> <b>naturally problematic?</b> (If needed, explain any answers in Remarks.)No		

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?                    Yes Wetland Hydrology Present?        Yes		Is the Sampled Area within a Wetland?                    Yes
Remarks: Wetland FF, adjacent, 22 flags		

**VEGETATION** (USFWS Region No. 1 - Northeast Sub-Region)

See attached sheet for listing of plant species and identification of dominant vegetation	
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 2/2 = 100 %	
FAC Neutral Test: 1 > 0 = Pass	
Prevalence Index =	
Remarks: Hydrophytic plant community is present	

## SOIL LRR: M

[illegible]

<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

### Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F3)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

### Indicators for Problematic Hydric Soils<sup>3</sup>:

- ☐ Coast Prairie Redox (A16)  
☐ Iron-Manganese Masses (F12)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches):	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
<b>Remarks:</b> Hydric soil is present	

## Routine Wetland Determination Form

**PAGE 2**

Sampling Date: 10/20/11

Sampling Point: SP57

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Surface Water (A1)<br><input type="checkbox"/> High Water Table (A2)<br><input type="checkbox"/> Saturation (A3)<br><input type="checkbox"/> Water Marks (B1)<br><input type="checkbox"/> Sediment Deposits (B2)<br><input type="checkbox"/> Drift Deposits (B2)<br><input type="checkbox"/> Algal Mat or Crust (B4)<br><input type="checkbox"/> Iron Deposits (B5)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> True Aquatic Plants (B14)<br><input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Gauge or Well Data (D9)<br><input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Surface Soil Cracks (B6)<br><input checked="" type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5)<br><input type="checkbox"/> Other (Explain in Remarks) |
|--|---|---|

#### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    No    Depth (Inches):

Saturation Present?    No    Depth (Inches):  
 (includes capillary fringe)

**Wetland Hydrology Present?    Yes**

#### ☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Two secondary indicators of hydrology are present.

Identification of Dominant Plant Species using the 50/20 Rule, SAMPLE POINT #57  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	100	100%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		TDM=	100		
Populus deltoides	FAC	Shrub/Sap	5	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		TDM=	5		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		TDM=	0		
		Vine			
		Vine			
		Vine			
		Vine			
		TDM=	0		



# Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase I		<b>City/County:</b> Champaign Co.		<b>Sampling Date:</b> 10/20/11	
<b>Applicant/Owner:</b> Everpower		<b>State:</b> OH		<b>Sampling Point:</b> SP58	
<b>Investigator(s):</b> BMF		<b>Section, Township, Range:</b> :			
Landform (hillslope, terrace, etc.):			Local relief (concave, convex, none):		
Slope (%):2-6		Lat: 40.06963	Long: 83.629194	Datum: WGS 1984	
Soil Map Unit Name: Brookston silty clay loam				NW1 classification: None	
Are climatic/hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.)					
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed? Are "Normal Circumstances" present? Yes					
Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks.)No					

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

Hydrophytic Vegetation Present?	Yes	<b>Is the Sampled Area within a Wetland?</b> Yes
Hydric Soil Present?	Yes	
Wetland Hydrology Present?	Yes	
Remarks: Linear wetland ditch; Wetland GG, 25 flagsHydrophytic plant community is present		

**VEGETATION** (USFWS Region No. 1 - Northeast Sub-Region)

<p><b>See attached sheet for listing of plant species and identification of dominant vegetation</b></p> <p>Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 3/3 = 100 %</p> <p>FAC Neutral Test: 3 &gt; 0 = Pass</p> <p>Prevalence Index =</p> <p>Remarks:</p>
---

**SOIL** **LRR: M**

[illegible]

<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

### Hydric Soil Indicators:

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol (A1)                       | <input type="checkbox"/> Sandy Gleyed Matrix (S4)   |
| <input type="checkbox"/> Histic Epipedon (A2)                | <input type="checkbox"/> Sandy Redox (S5)           |
| <input type="checkbox"/> Black Histic (A3)                   | <input type="checkbox"/> Stripped Matrix (S6)       |
| <input type="checkbox"/> Hydrogen Sulfide (A4)               | <input type="checkbox"/> Loamy Mucky Mineral (F1)   |
| <input type="checkbox"/> Stratified Layers (A5)              | <input type="checkbox"/> Loamy Gleyed Matrix (F3)   |
| <input type="checkbox"/> 2 cm Muck (A10)                     | <input type="checkbox"/> Depleted Matrix (F3)       |
| <input type="checkbox"/> Depleted Below Dark Surface (A11)   | <input type="checkbox"/> Redox Dark Surface (F6)    |
| <input checked="" type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)            | <input type="checkbox"/> Redox Depressions (F8)     |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)        |   |

### Indicators for Problematic Hydric Soils<sup>3</sup>:

- ☐ Coast Prairie Redox (A16)  
☐ Iron-Manganese Masses (F12)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches):	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
<b>Remarks:</b> Hydric soil is present	

# Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 10/20/11

**Sampling Point:** SP58

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- |   |   |
|---|---|
| <input type="checkbox"/> Surface Water (A1)<br><input type="checkbox"/> High Water Table (A2)<br><input checked="" type="checkbox"/> Saturation (A3)<br><input type="checkbox"/> Water Marks (B1)<br><input type="checkbox"/> Sediment Deposits (B2)<br><input type="checkbox"/> Drift Deposits (B2)<br><input type="checkbox"/> Algal Mat or Crust (B4)<br><input type="checkbox"/> Iron Deposits (B5)<br><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)<br><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | <input type="checkbox"/> Water-Stained Leaves (B9)<br><input type="checkbox"/> Aquatic Fauna (B13)<br><input type="checkbox"/> True Aquatic Plants (B14)<br><input type="checkbox"/> Hydrogen Sulfide Odor (C1)<br><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)<br><input type="checkbox"/> Presence of Reduced Iron (C4)<br><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)<br><input type="checkbox"/> Thin Muck Surface (C7)<br><input type="checkbox"/> Gauge or Well Data (D9)<br><input type="checkbox"/> Other (Explain in Remarks) |
|---|---|

Secondary Indicators (minimum of two required)

- |   |
|---|
| <input type="checkbox"/> Surface Soil Cracks (B6)<br><input checked="" type="checkbox"/> Drainage Patterns (B10)<br><input type="checkbox"/> Dry-Season Water Table (C2)<br><input type="checkbox"/> Crayfish Burrows (C8)<br><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)<br><input type="checkbox"/> Geomorphic Position (D2)<br><input checked="" type="checkbox"/> FAC-Neutral Test (D5)<br><input type="checkbox"/> Other (Explain in Remarks) |
|---|

### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    No    Depth (Inches):

Saturation Present?    Yes    Depth (Inches): surface  
 (includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: One primary and two secondary indicators of wetland hydrology are present.

Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #58**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Phalaris arundinacea	FACW	Herb	90	90%	Yes
Carex frankii	OBL	Herb	10	10%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	100		
Salix nigra	FACW+	Shrub/Sap	20	50%	Yes
Salix exigua	OBL	Shrub/Sap	20	50%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	40		
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	0		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		

## Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase I <b>Applicant/Owner:</b> Everpower <b>Investigator(s):</b> BMF/KMH	<b>City/County:</b> Champaign Co. <b>State:</b> OH <b>Section, Township, Range:</b> :	<b>Sampling Date:</b> 12/13/11 <b>Sampling Point:</b> SP62
Landform (hillslope, terrace, etc.): depression Slope (%): 2-6      Lat: 40.14236      Long: 83.90422      Datum: WGS 1984 Soil Map Unit Name: Miami silt loam      NWI classification: PEM1A		
Are climatic/hydrologic conditions on the site typical for this time of year?    Yes    (If no, explain in Remarks.) Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed?    Are "Normal Circumstances" present?    Yes Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks). No		

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?    Yes Wetland Hydrology Present?    Yes	<b>Is the Sampled Area within a Wetland?</b> Yes
Remarks: Wetland JJ, non-isolated NWI emergent wetland, 12 flags	

### VEGETATION (USFWS Region No. 1 - Northeast Sub-Region)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 5/5 = 100 % FAC Neutral Test: 3 > 0 = Pass Prevalence Index = Remarks: Hydrophytic plant community is present

### SOIL LRR: M

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 2 / 1	100					organic	
1-10	10YR 4 / 1	90	7.5YR 5 / 6	10	C	M	silty clay	saturated

<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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F3) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
---	---	--

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches):	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
Remarks: Hydric soil present - Indicator F3 (Depleted Matrix)	

# Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 12/13/11

**Sampling Point:** SP62

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

Secondary Indicators (minimum of two required)

- |  |   |  |
|--|---|--|
| <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"/> True Aquatic Plants (B14)                  | <input type="checkbox"/> Dry-Season Water Table (C2)               |
| <input checked="" type="checkbox"/> Water Marks (B1)               | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                 | <input type="checkbox"/> Crayfish Burrows (C8)                     |
| <input type="checkbox"/> Sediment Deposits (B2)                    | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Drift Deposits (B2)                       | <input type="checkbox"/> Presence of Reduced Iron (C4)              | <input checked="" type="checkbox"/> Geomorphic Position (D2)       |
| <input type="checkbox"/> Algal Mat or Crust (B4)                   | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)          |
| <input type="checkbox"/> Iron Deposits (B5)                        | <input type="checkbox"/> Thin Muck Surface (C7)                     | <input type="checkbox"/> Other (Explain in Remarks)                |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9)                    |  |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)   | <input type="checkbox"/> Other (Explain in Remarks)                 |  |

### Field Observations:

Surface Water Present?    Yes    Depth (Inches): 3

Water Table Present?    No    Depth (Inches):

Saturation Present?    Yes    Depth (Inches): surface  
(includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Hydrology present - four primary indicators and one secondary indicator



Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #62**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Aster lateriflorus	FACW	Herb	20	95%	Yes
Cinna arundinacea	FACW+	Herb	1	5%	
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	21		
Salix exigua	OBL	Shrub/Sap	50	100%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	50		
Fraxinus pennsylvanica	FACW	Tree	20	33%	Yes
Acer rubrum	FAC	Tree	20	33%	Yes
Populus deltoides	FAC	Tree	20	33%	Yes
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	60		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		

## Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase I <b>Applicant/Owner:</b> Everpower <b>Investigator(s):</b> BMF/KMH	<b>City/County:</b> Champaign Co. <b>State:</b> OH <b>Section, Township, Range:</b> :	<b>Sampling Date:</b> 12/13/11 <b>Sampling Point:</b> SP63
Landform (hillslope, terrace, etc.): Slope (%): 0-2      Lat: 40.146375      Long: 83.58023      Datum: WGS 1984 Soil Map Unit Name: Brookston silty clay loam      NWI classification: PFO1A, PSS1C		
Are climatic/hydrologic conditions on the site typical for this time of year?    Yes    (If no, explain in Remarks.) Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed?    Are "Normal Circumstances" present?    Yes Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic? (If needed, explain any answers in Remarks). No		

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?    Yes Wetland Hydrology Present?    Yes	<b>Is the Sampled Area within a Wetland?</b> Yes
Remarks: Wetland KK, forested NWI wetland, non-isolated, 12 flags	

### VEGETATION (USFWS Region No. 1 - Northeast Sub-Region)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 7/7 = 100 % FAC Neutral Test: 6 > 0 = Pass Prevalence Index = Remarks: Hydrophytic community is present

### SOIL LRR: M

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-1	10YR 2 / 1	100					organic	Organic - A0
1-4	10YR 4 / 2	80	7.5YR 5 / 6	20	C	M	silty clay	
4-12	2.5Y5 / 2	85	10YR 5 / 6	15	C	M	silty clay	saturated

<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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F3) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
---	---	--

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches):	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
Remarks: Hydric soil based on indicator F3-Depleted matrix	

# Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 12/13/11

**Sampling Point:** SP63

## HYDROLOGY

### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

☐ Surface Water (A1)

☒ High Water Table (A2)

☒ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B2)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ Presence of Reduced Iron (C4)

☐ Recent Iron Reduction in Tilled Soils (C6)

☐ Thin Muck Surface (C7)

☐ Gauge or Well Data (D9)

☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry-Season Water Table (C2)

☒ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

☐ Other (Explain in Remarks)

### Field Observations:

Surface Water Present?    No    Depth (Inches):

Water Table Present?    Yes    Depth (Inches): 7

Saturation Present?    Yes    Depth (Inches): 7  
(includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

☐ Stream, Lake, or Tide Gauge

☐ Aerial Photographs

☐ Other

☒ No Recorded Data

Remarks: Hydrology is present - two primary indicators, one secondary indicator.

Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #63**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Agrostis stolonifera	FACW	Herb	60	60%	Yes
Cinna arundinacea	FACW+	Herb	5	5%	
Aster lateriflorus	FACW-	Herb	5	5%	
Glyceria striata	OBL	Herb	30	30%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	100		
Fraxinus pennsylvanica	FACW	Shrub/Sap	10	23%	Yes
Cephalanthus occidentalis	OBL	Shrub/Sap	2	4%	
Sambucus canadensis	FACW-	Shrub/Sap	5	12%	
Cornus amomum	FACW	Shrub/Sap	10	23%	Yes
Carya laciniosa	FAC	Shrub/Sap	1	2%	
Toxicodendron radicans	FAC	Shrub/Sap	10	23%	Yes
Lindera benzoin	FACW-	Shrub/Sap	5	12%	
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	43		
Fraxinus pennsylvanica	FACW	Tree	30	67%	Yes
Quercus bicolor	FACW+	Tree	15	33%	Yes
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	45		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		

## Routine Wetland Determination Form

<b>Project/Site:</b> EVP010 Phase I <b>Applicant/Owner:</b> Everpower <b>Investigator(s):</b> BMF	<b>City/County:</b> Champaign Co. <b>State:</b> OH <b>Section, Township, Range:</b> :	<b>Sampling Date:</b> 12-14-11 <b>Sampling Point:</b> SP66
Landform (hillslope, terrace, etc.): Slope (%): 2-6      Lat: 40.08738      Long: 83.603602      Datum: WGS 1984 Soil Map Unit Name: Miami silt loam      NWI classification: PSS1C, PuB Gh		
Are climatic/hydrologic conditions on the site typical for this time of year?    Yes    (If no, explain in Remarks.) Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> significantly disturbed?    Are "Normal Circumstances" present?    Yes Are Vegetation <input type="checkbox"/> , Soil <input type="checkbox"/> , or Hydrology <input type="checkbox"/> naturally problematic?    (If needed, explain any answers in Remarks). No		

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

Hydrophytic Vegetation Present?    Yes Hydric Soil Present?    Yes Wetland Hydrology Present?    Yes	<b>Is the Sampled Area within a Wetland?</b> Yes
Remarks: Wetland NN, non-isolated	

### VEGETATION (USFWS Region No. 1 - Northeast Sub-Region)

<b>See attached sheet for listing of plant species and identification of dominant vegetation</b>
Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 8/8 = 100 % FAC Neutral Test: 6 > 0 = Pass Prevalence Index = Remarks: Hydrophytic plant community is present

### SOIL LRR: M

<b>Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)</b>								
Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-12	10YR 4 / 2	90	10YR 5 / 8	10	C	M	silt loam	saturated

<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

<b>Hydric Soil Indicators:</b> <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input checked="" type="checkbox"/> Loamy Gleyed Matrix (F3) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b> <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
---	---	--

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present.

<b>Restrictive Layer (if observed):</b> Type: Depth: (inches):	<b>Hydric Soil Present?</b> Yes <b>Soil pit dug?</b> Yes <b>(if yes select one):</b> 1" Probe
<b>Remarks:</b> Hydric soil is present by indicator F3	



## Routine Wetland Determination Form

**PAGE 2**

**Sampling Date:** 12-14-11

**Sampling Point:** SP66

### HYDROLOGY

#### Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

Secondary Indicators (minimum of two required)

- |   |   |  |
|---|---|--|
| <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"/> True Aquatic Plants (B14)                  | <input type="checkbox"/> Dry-Season Water Table (C2)               |
| <input checked="" type="checkbox"/> Water Marks (B1)                          | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                 | <input type="checkbox"/> Crayfish Burrows (C8)                     |
| <input type="checkbox"/> Sediment Deposits (B2)                               | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input checked="" type="checkbox"/> Drift Deposits (B2)                       | <input type="checkbox"/> Presence of Reduced Iron (C4)              | <input type="checkbox"/> Geomorphic Position (D2)                  |
| <input type="checkbox"/> Algal Mat or Crust (B4)                              | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input checked="" type="checkbox"/> FAC-Neutral Test (D5)          |
| <input type="checkbox"/> Iron Deposits (B5)                                   | <input type="checkbox"/> Thin Muck Surface (C7)                     | <input type="checkbox"/> Other (Explain in Remarks)                |
| <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Gauge or Well Data (D9)                    |  |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)              | <input type="checkbox"/> Other (Explain in Remarks)                 |  |

#### Field Observations:

Surface Water Present?    Yes    Depth (Inches): 3

Water Table Present?    No    Depth (Inches):

Saturation Present?    Yes    Depth (Inches): surface  
(includes capillary fringe)

**Wetland Hydrology Present?**    Yes

☐ Recorded Data (Describe in Remarks):

- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☒ No Recorded Data

Remarks: Hydrology is present by numerous indicators.

Identification of Dominant Plant Species using the 50/20 Rule, **SAMPLE POINT #66**  
Attachment to Routine Wetland Determination Data Form  
Hull & Associates, Inc.

SPECIES	INDICATOR STATUS	STRATUM	PLANT COVER	% OF TDM	DOMINANT
Typha latifolia	OBL	Herb	25	25%	Yes
Aster lateriflorus	FACW-	Herb	25	25%	Yes
Polygonum lapathifolium	FACW+	Herb	25	25%	Yes
Carex stricta	OBL	Herb	25	25%	Yes
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		Herb			
		<b>TDM=</b>	100		
Ulmus americana	FACW-	Shrub/Sap	10	24%	Yes
Salix nigra	FACW+	Shrub/Sap	2	5%	
Toxicodendron radicans	FAC	Shrub/Sap	30	71%	Yes
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		Shrub/Sap			
		<b>TDM=</b>	42		
Salix nigra	FACW+	Tree	35		Yes
Populus deltoides	FAC	Tree	20	36%	Yes
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		Tree			
		<b>TDM=</b>	55		
		Vine			
		Vine			
		Vine			
		Vine			
		<b>TDM=</b>	0		

# WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: EVPO10 City/County: Champaign Sampling Date: 3/4/13  
 Applicant/Owner: Everpower Wind Holdings, Inc. State: OH Sampling Point: Wet-KA  
 Investigator(s): K. Hershey, M. Malnar Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): swale Local relief (concave, convex, none): concave  
 Slope (%): \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: WGS1984  
 Soil Map Unit Name: Crosby silt loam 2-6% slopes (CrB) 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? N Are "Normal Circumstances" present? Yes ☒ No \_\_\_\_\_  
 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ naturally problematic? N (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 _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No _____	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No _____	
Remarks: <u>all 3 wetland criteria have been met.</u>			

## VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>Salix nigra</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ 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 = _____
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ 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 = _____
1. <u>Salix nigra</u>	<u>15</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
1. <u>Epilobium coloratum</u>	<u>10</u>	_____	<u>OBL</u>	
2. <u>Apocynum cannabinum</u>	<u>5</u>	_____	<u>FAC</u>	
3. <u>Xanthoxylum strumarium</u>	<u>5</u>	_____	<u>FAC</u>	
4. <u>Typha angustifolia</u>	<u>60</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
5. <u>Scirpus cyperinus</u>	<u>15</u>	_____	<u>OBL</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	_____ = Total Cover
Remarks: (Include photo numbers here or on a separate sheet.) <u>Wetland vegetation criterion has been met.</u>				

## SOIL

Sampling Point: WET-KA

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>		
0-3	10YR 3/2	100	—	—	—	Silty clay	
3-10	10YR 3/2	90	10YR 6/8	10	C M	" "	
10-20	10YR 3/1	90	10YR 6/8	10	C M	clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Dark Surface (S7)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 2 cm Muck (A10)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (Inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
--	---

Remarks: Hydric soil criterion has been met.

## HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): <u>1"</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): <u>surf.</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): <u>surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
--	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Wetland hydrology criterion has been met.

# WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: EVPO10 City/County: Champaign Sampling Date: 3/4/13  
 Applicant/Owner: Everpower Wind Holdings, Inc. State: OH Sampling Point: Wet-KB  
 Investigator(s): K. Hershey, M. Molnar Section, Township, Range: CONCAVE  
 Landform (hillslope, terrace, etc.): SWALE Local relief (concave, convex, none):  
 Slope (%): 0 Lat: 40.154133 Long: -83.62438 Datum: WGS1984  
 Soil Map Unit Name: Crosby silt loam, 2-6% slope (CrB) NWI classification: None  
 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? N Are "Normal Circumstances" present? Yes ☒ No ☐  
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? N (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"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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: <u>All 3 wetland criteria have been met</u>		

## VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <u>Salix nigra</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
2. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: 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 = _____
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'</u> )				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Salix nigra</u>	<u>15</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
= Total Cover				
Herb Stratum (Plot size: <u>5'</u> )				
1. <u>Apocynum cannabinum</u>	<u>10</u>	_____	<u>FAC</u>	
2. <u>Xanthium strumarium</u>	<u>10</u>	_____	<u>FAC</u>	
3. <u>Typha angustifolia</u>	<u>60</u>	<input checked="" type="checkbox"/>	<u>OBL</u>	
4. <u>Scirpus cyperinus</u>	<u>10</u>	_____	<u>OBL</u>	Remarks: (Include photo numbers here or on a separate sheet.) <u>Wetland vegetation criterion has been met.</u>
5. <u>Festuca rubra</u>	<u>10</u>	_____	<u>FACU</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	Woody Vine Stratum (Plot size: <u>30'</u> )
10. _____	_____	_____	_____	
= Total Cover				Remarks: (Include photo numbers here or on a separate sheet.) <u>Wetland vegetation criterion has been met.</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Woody Vine Stratum (Plot size: <u>30'</u> )
= Total Cover				



## SOIL

Sampling Point: WET-KB

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>		
0-3	10YR 3/2	100	—	—	—	—	silty clay	
3-10	10YR 3/2	90	10YR 6/3	10	C	M	" "	
10-20	10YR 3/1	90	10YR 6/3	10	C	M	clay	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

## Hydric Soil Indicators:

- ☐ Histosol (A1)  
☐ Histic Epipedon (A2)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4)  
☐ Stratified Layers (A5)  
☐ 2 cm Muck (A10)  
☐ Depleted Below Dark Surface (A11)  
☐ Thick Dark Surface (A12)  
☐ Sandy Mucky Mineral (S1)  
☐ 5 cm Mucky Peat or Peat (S3)

- ☐ Sandy Gleyed Matrix (S4)  
☐ Sandy Redox (S5)  
☐ Stripped Matrix (S6)  
☐ Loamy Mucky Mineral (F1)  
☐ Loamy Gleyed Matrix (F2)  
☒ Depleted Matrix (F3)  
☐ Redox Dark Surface (F6)  
☐ Depleted Dark Surface (F7)  
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils<sup>3</sup>:

- ☐ Coast Prairie Redox (A16)  
☐ Dark Surface (S7)  
☐ Iron-Manganese Masses (F12)  
☐ Very Shallow Dark Surface (TF12)  
☐ Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

## Restrictive Layer (if observed):

Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes ☒ No ☐

## Remarks:

Hydric soil criterion has been met.

## HYDROLOGY

## Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☒ Surface Water (A1)  
☒ High Water Table (A2)  
☒ Saturation (A3)  
☐ Water Marks (B1)  
☒ Sediment Deposits (B2)  
☐ Drift Deposits (B3)  
☐ Algal Mat or Crust (B4)  
☐ Iron Deposits (B5)  
☐ Inundation Visible on Aerial Imagery (B7)  
☐ Sparsely Vegetated Concave Surface (B8)

- ☐ Water-Stained Leaves (B9)  
☐ Aquatic Fauna (B13)  
☐ True Aquatic Plants (B14)  
☐ Hydrogen Sulfide Odor (C1)  
☐ Oxidized Rhizospheres on Living Roots (C3)  
☐ Presence of Reduced Iron (C4)  
☐ Recent Iron Reduction in Tilled Soils (C6)  
☐ Thin Muck Surface (C7)  
☐ Gauge or Well Data (D9)  
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)  
☐ Drainage Patterns (B10)  
☐ Dry-Season Water Table (C2)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Stunted or Stressed Plants (D1)  
☐ Geomorphic Position (D2)  
☐ FAC-Neutral Test (D5)

## Field Observations:

Surface Water Present? Yes ☒ No ☐ Depth (inches): 1-2"  
 Water Table Present? Yes ☒ No ☐ Depth (inches): surf  
 Saturation Present? Yes ☒ No ☐ Depth (inches): surf  
 (includes capillary fringe)

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

## Remarks:

Wetland hydrology criterion has been met.

## **APPENDIX C**

### ORAM Data Sheets

Site: EVPO01 Wetland A Rater(s): KC ; SMH Date: 11/21/08

2 2

### Metric 1. Wetland Area (size).

max 6 pts.

subtotal

Select one size class and assign score.

- ☐ >50 acres (>20.2ha) (6 pts)
- ☐ 25 to <50 acres (10.1 to <20.2ha) (5 pts)
- ☐ 10 to <25 acres (4 to <10.1ha) (4 pts)
- ☐ 3 to <10 acres (1.2 to <4ha) (3 pts)
- ☒ 0.3 to <3 acres (0.12 to <1.2ha) (2pts)
- ☐ 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)
- ☐ <0.1 acres (0.04ha) (0 pts)

11 13

### Metric 2. Upland buffers and surrounding land use.

max 14 pts.

subtotal

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- ☒ WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- ☐ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- ☐ NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
- ☐ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

2b. Intensity of surrounding land use. Select one or double check and average.

- ☐ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
- ☒ LOW. Old field (>10 years), shrubland, young second growth forest. (5)
- ☒ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- ☐ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

13 26

### Metric 3. Hydrology.

max 30 pts.

subtotal

3a. Sources of Water. Score all that apply.

- ☐ High pH groundwater (5)
- ☐ Other groundwater (3)
- ☒ Precipitation (1)
- ☒ Seasonal/Intermittent surface water (3)
- ☐ Perennial surface water (lake or stream) (5)

3c. Maximum water depth. Select only one and assign score.

- ☐ >0.7 (27.6in) (3)
- ☐ 0.4 to 0.7m (15.7 to 27.6in) (2)
- ☒ <0.4m (<15.7in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- ☐ None or none apparent (12)
- ☒ Recovered (7)
- ☒ Recovering (3)
- ☐ Recent or no recovery (1)

3b. Connectivity. Score all that apply.

- ☐ 100 year floodplain (1)
- ☒ Between stream/lake and other human use (1)
- ☐ Part of wetland/upland (e.g. forest), complex (1)
- ☐ Part of riparian or upland corridor (1)

3d. Duration inundation/saturation. Score one or dbl check.

- ☐ Semi- to permanently inundated/saturated (4)
- ☒ Regularly inundated/saturated (3)
- ☒ Seasonally inundated (2)
- ☐ Seasonally saturated in upper 30cm (12in) (1)

Check all disturbances observed

- ☐ ditch
- ☐ tile
- ☐ dike
- ☐ weir
- ☐ stormwater input
- ☐ point source (nonstormwater)
- ☐ filling/grading
- ☐ road bed/RR track
- ☐ dredging
- ☒ other agriculture

13 39

### Metric 4. Habitat Alteration and Development.

max 20 pts.

subtotal

4a. Substrate disturbance. Score one or double check and average.

- ☒ None or none apparent (4)
- ☐ Recovered (3)
- ☐ Recovering (2)
- ☐ Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

- ☐ Excellent (7)
- ☐ Very good (6)
- ☐ Good (5)
- ☐ Moderately good (4)
- ☒ Fair (3)
- ☐ Poor to fair (2)
- ☐ Poor (1)

4c. Habitat alteration. Score one or double check and average.

- ☐ None or none apparent (9)
- ☒ Recovered (6)
- ☐ Recovering (3)
- ☐ Recent or no recovery (1)

Check all disturbances observed

- ☐ mowing
- ☐ grazing
- ☐ clearcutting
- ☐ selective cutting
- ☐ woody debris removal
- ☐ toxic pollutants
- ☐ shrub/sapling removal
- ☐ herbaceous/aquatic bed removal
- ☐ sedimentation
- ☐ dredging
- ☐ farming
- ☐ nutrient enrichment

39

subtotal this page

Site: EVP001 Wetland H Rater(s): KC: SMH Date: 11/21/08

39

subtotal this page

0 39

max 10 pts.

subtotal

### Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- ☐ Bog (10)
- ☐ Fen (10)
- ☐ Old growth forest (10)
- ☐ Mature forested wetland (5)
- ☐ Lake Erie coastal/tributary wetland-unrestricted hydrology (10)
- ☐ Lake Erie coastal/tributary wetland-restricted hydrology (5)
- ☐ Lake Plain Sand Prairies (Oak Openings) (10)
- ☐ Relict Wet Prairies (10)
- ☐ Known occurrence state/federal threatened or endangered species (10)
- ☐ Significant migratory songbird/water fowl habitat or usage (10)
- ☐ Category 1 Wetland. See Question 1 Qualitative Rating (-10)

0

3 42

max 20 pts.

subtotal

### Metric 6. Plant communities, interspersions, microtopography.

6a. Wetland Vegetation Communities.

Score all present using 0 to 3 scale.

- ☐ Aquatic bed
- ☒ Emergent
- ☐ Shrub
- ☐ Forest
- ☐ Mudflats
- ☐ Open water
- ☐ Other

2

6b. horizontal (plan view) Interspersion.

Select only one.

- ☐ High (5)
- ☐ Moderately high (4)
- ☐ Moderate (3)
- ☐ Moderately low (2)
- ☐ Low (1)
- ☒ None (0)

0

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

- ☐ Extensive >75% cover (-5)
- ☐ Moderate 25-75% cover (-3)
- ☐ Sparse 5-25% cover (-1)
- ☐ Nearly absent <5% cover (0)
- ☒ Absent (1)

1

6d. Microtopography.

Score all present using 0 to 3 scale.

- ☐ Vegetated hummocks/tussocks
- ☐ Coarse woody debris >15cm (6in)
- ☐ Standing dead >25cm (10in) dbh
- ☐ Amphibian breeding pools

0

#### Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

#### Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

#### Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

#### Microtopography Cover Scale

0	Absent
1	Present very small amounts or if more common of marginal quality
2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

Mod. 2

42 GRAND TOTAL(max 100 pts)

Site: *Wetland B* Rater(s): *KC, SMH* Date: *11/21/08*

*2* *2*

### Metric 1. Wetland Area (size).

max 6 pts.

subtotal

Select one size class and assign score.

- ☐ >50 acres (>20.2ha) (6 pts)
- ☐ 25 to <50 acres (10.1 to <20.2ha) (5 pts)
- ☐ 10 to <25 acres (4 to <10.1ha) (4 pts)
- ☐ 3 to <10 acres (1.2 to <4ha) (3 pts)
- ☒ 0.3 to <3 acres (0.12 to <1.2ha) (2pts)
- ☐ 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)
- ☐ <0.1 acres (0.04ha) (0 pts)

*7* *9*

### Metric 2. Upland buffers and surrounding land use.

max 14 pts.

subtotal

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- ☐ WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- ☒ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- ☐ NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
- ☐ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

2b. Intensity of surrounding land use. Select one or double check and average.

- ☐ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
- ☒ LOW. Old field (>10 years), shrubland, young second growth forest. (5)
- ☐ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- ☒ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

*16.5* *25.5*

### Metric 3. Hydrology.

max 30 pts.

subtotal

3a. Sources of Water. Score all that apply.

- ☐ High pH groundwater (5)
- ☐ Other groundwater (3)
- ☒ Precipitation (1)
- ☒ Seasonal/intermittent surface water (3)
- ☐ Perennial surface water (lake or stream) (5)

3c. Maximum water depth. Select only one and assign score.

- ☐ >0.7 (27.6in) (3)
- ☐ 0.4 to 0.7m (15.7 to 27.6in) (2)
- ☒ <0.4m (<15.7in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- ☐ None or none apparent (12)
- ☒ Recovered (7)
- ☐ Recovering (3)
- ☐ Recent or no recovery (1)

3b. Connectivity. Score all that apply.

- ☐ 100 year floodplain (1)
- ☒ Between stream/lake and other human use (1)
- ☐ Part of wetland/upland (e.g. forest), complex (1)
- ☒ Part of riparian or upland corridor (1)

3d. Duration inundation/saturation. Score one or dbl check.

- ☐ Semi- to permanently inundated/saturated (4)
- ☒ Regularly inundated/saturated (3)
- ☒ Seasonally inundated (2)
- ☐ Seasonally saturated in upper 30cm (12in) (1)

Check all disturbances observed	
<input type="checkbox"/> ditch	<input type="checkbox"/> point source (nonstormwater)
<input type="checkbox"/> tile	<input type="checkbox"/> filling/grading
<input type="checkbox"/> dike	<input type="checkbox"/> road bed/RR track
<input type="checkbox"/> weir	<input type="checkbox"/> dredging
<input type="checkbox"/> stormwater input	<input checked="" type="checkbox"/> other <i>agriculture</i>

*12* *37.5*

### Metric 4. Habitat Alteration and Development.

max 20 pts.

subtotal

4a. Substrate disturbance. Score one or double check and average.

- ☐ None or none apparent (4)
- ☒ Recovered (3)
- ☐ Recovering (2)
- ☐ Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

- ☐ Excellent (7)
- ☐ Very good (6)
- ☐ Good (5)
- ☐ Moderately good (4)
- ☒ Fair (3)
- ☐ Poor to fair (2)
- ☐ Poor (1)

4c. Habitat alteration. Score one or double check and average.

- ☐ None or none apparent (9)
- ☒ Recovered (6)
- ☐ Recovering (3)
- ☐ Recent or no recovery (1)

Check all disturbances observed	
<input type="checkbox"/> mowing	<input checked="" type="checkbox"/> shrub/sapling removal
<input type="checkbox"/> grazing	<input type="checkbox"/> herbaceous/aquatic bed removal
<input type="checkbox"/> clearcutting	<input type="checkbox"/> sedimentation
<input type="checkbox"/> selective cutting	<input type="checkbox"/> dredging
<input type="checkbox"/> woody debris removal	<input checked="" type="checkbox"/> farming
<input type="checkbox"/> toxic pollutants	<input type="checkbox"/> nutrient enrichment

*37.5*

subtotal this page

Site: <u>EVP <del>Wetland B</del></u>	Rater(s): <u>KC; SMH</u>	Date: <u>11/21/08</u>
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37.5

subtotal this page

0	37.5
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max 10 pts.

subtotal

### Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- ☐ Bog (10)
- ☐ Fen (10)
- ☐ Old growth forest (10)
- ☐ Mature forested wetland (5)
- ☐ Lake Erie coastal/tributary wetland-unrestricted hydrology (10)
- ☐ Lake Erie coastal/tributary wetland-restricted hydrology (5)
- ☐ Lake Plain Sand Prairies (Oak Openings) (10)
- ☐ Relict Wet Prairies (10)
- ☐ Known occurrence state/federal threatened or endangered species (10)
- ☐ Significant migratory songbird/water fowl habitat or usage (10)
- ☐ Category 1 Wetland. See Question 1 Qualitative Rating (-10)

0

4	41.5
---	------

max 20 pts.

subtotal

### Metric 6. Plant communities, interspersions, microtopography.

6a. Wetland Vegetation Communities.

Score all present using 0 to 3 scale.

- ☐ Aquatic bed
- ☒ Emergent
- ☒ Shrub
- ☐ Forest
- ☐ Mudflats
- ☐ Open water
- ☐ Other

2

6b. horizontal (plan view) Interspersions.

Select only one.

- ☐ High (5)
- ☐ Moderately high (4)
- ☐ Moderate (3)
- ☐ Moderately low (2)
- ☒ Low (1)
- ☐ None (0)

1

6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

- ☐ Extensive >75% cover (-5)
- ☐ Moderate 25-75% cover (-3)
- ☐ Sparse 5-25% cover (-1)
- ☐ Nearly absent <5% cover (0)
- ☒ Absent (1)

1

6d. Microtopography.

Score all present using 0 to 3 scale.

- ☐ Vegetated hummocks/tussocks
- ☐ Coarse woody debris >15cm (6in)
- ☐ Standing dead >25cm (10in) dbh
- ☐ Amphibian breeding pools

0

#### Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

#### Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

#### Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

#### Microtopography Cover Scale

0	Absent
1	Present very small amounts or if more common of marginal quality
2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

Mod 2

41.5	<b>GRAND TOTAL(max 100 pts)</b>
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Site: EVP001 Wetland H Rater(s): S. Harrelson, H. Crowell Date: 6/17/08

0	0
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### Metric 1. Wetland Area (size).

max 6 pts.

subtotal

Select one size class and assign score.

- ☐ >50 acres (>20.2ha) (6 pts)
- ☐ 25 to <50 acres (10.1 to <20.2ha) (5 pts)
- ☐ 10 to <25 acres (4 to <10.1ha) (4 pts)
- ☐ 3 to <10 acres (1.2 to <4ha) (3 pts)
- ☐ 0.3 to <3 acres (0.12 to <1.2ha) (2pts)
- ☐ 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)
- ☒ <0.1 acres (0.04ha) (0 pts)

0

12	12
----	----

max 14 pts.

subtotal

### Metric 2. Upland buffers and surrounding land use.

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- ☒ WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- ☐ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- ☐ NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
- ☐ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

2b. Intensity of surrounding land use. Select one or double check and average.

- ☐ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
- ☒ LOW. Old field (>10 years), shrubland, young second growth forest. (5)
- ☐ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- ☐ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

7

5

14	26
----	----

max 30 pts.

subtotal

### Metric 3. Hydrology.

3a. Sources of Water. Score all that apply.

- ☐ High pH groundwater (5)
- ☐ Other groundwater (3)
- ☒ Precipitation (1)
- ☒ Seasonal/intermittent surface water (3)
- ☐ Perennial surface water (lake or stream) (5)

3c. Maximum water depth. Select only one and assign score.

- ☐ >0.7 (27.6in) (3)
- ☐ 0.4 to 0.7m (15.7 to 27.6in) (2)
- ☒ <0.4m (<15.7in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- ☐ None or none apparent (12)
- ☒ Recovered (7)
- ☐ Recovering (3)
- ☐ Recent or no recovery (1)

4

1

7

3b. Connectivity. Score all that apply.

- ☐ 100 year floodplain (1)
- ☐ Between stream/lake and other human use (1)
- ☐ Part of wetland/upland (e.g. forest), complex (1)
- ☒ Part of riparian or upland corridor (1)

3d. Duration inundation/saturation. Score one or dbl check.

- ☐ Semi- to permanently inundated/saturated (4)
- ☐ Regularly inundated/saturated (3)
- ☐ Seasonally inundated (2)
- ☒ Seasonally saturated in upper 30cm (12in) (1)

1

1

Check all disturbances observed	
<input type="checkbox"/> ditch	<input type="checkbox"/> point source (nonstormwater)
<input type="checkbox"/> tile	<input type="checkbox"/> filling/grading
<input type="checkbox"/> dike	<input checked="" type="checkbox"/> road bed/RR track
<input type="checkbox"/> weir	<input type="checkbox"/> dredging
<input type="checkbox"/> stormwater input	<input type="checkbox"/> other _____

9.5	35.5
-----	------

max 20 pts.

subtotal

### Metric 4. Habitat Alteration and Development.

4a. Substrate disturbance. Score one or double check and average.

- ☐ None or none apparent (4)
- ☒ Recovered (3)
- ☐ Recovering (2)
- ☐ Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

- ☐ Excellent (7)
- ☐ Very good (6)
- ☐ Good (5)
- ☐ Moderately good (4)
- ☐ Fair (3)
- ☒ Poor to fair (2)
- ☐ Poor (1)

4c. Habitat alteration. Score one or double check and average.

- ☐ None or none apparent (9)
- ☒ Recovered (6)
- ☒ Recovering (3)
- ☐ Recent or no recovery (1)

3

2

4.5

35.5
------

subtotal this page

Check all disturbances observed	
<input type="checkbox"/> mowing	<input type="checkbox"/> shrub/sapling removal
<input type="checkbox"/> grazing	<input type="checkbox"/> herbaceous/aquatic bed removal
<input checked="" type="checkbox"/> clearcutting	<input type="checkbox"/> sedimentation
<input checked="" type="checkbox"/> selective cutting	<input type="checkbox"/> dredging
<input checked="" type="checkbox"/> woody debris removal	<input checked="" type="checkbox"/> farming
<input type="checkbox"/> toxic pollutants	<input checked="" type="checkbox"/> nutrient enrichment

Site: EVP001 Wetland H Rater(s): S. Harrelson,  
H. Crowell Date: 6/17/08

35.5

subtotal this page

0 35.5

max 10 pts.

subtotal

### Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- ☐ Bog (10)
- ☐ Fen (10)
- ☐ Old growth forest (10)
- ☐ Mature forested wetland (5)
- ☐ Lake Erie coastal/tributary wetland-unrestricted hydrology (10)
- ☐ Lake Erie coastal/tributary wetland-restricted hydrology (5)
- ☐ Lake Plain Sand Prairies (Oak Openings) (10)
- ☐ Relict Wet Prairies (10)
- ☐ Known occurrence state/federal threatened or endangered species (10)
- ☐ Significant migratory songbird/water fowl habitat or usage (10)
- ☐ Category 1 Wetland. See Question 1 Qualitative Rating (-10)

0

2 37.5

max 20 pts.

subtotal

### Metric 6. Plant communities, interspersions, microtopography.

#### 6a. Wetland Vegetation Communities.

Score all present using 0 to 3 scale.

- ☐ Aquatic bed
- ☒ Emergent
- ☐ Shrub
- ☐ Forest
- ☐ Mudflats
- ☐ Open water
- ☐ Other

1

#### 6b. Horizontal (plan view) Interspersion.

Select only one.

- ☐ High (5)
- ☐ Moderately high (4)
- ☐ Moderate (3)
- ☐ Moderately low (2)
- ☐ Low (1)
- ☒ None (0)

0

#### 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

- ☐ Extensive >75% cover (-5)
- ☐ Moderate 25-75% cover (-3)
- ☐ Sparse 5-25% cover (-1)
- ☐ Nearly absent <5% cover (0)
- ☒ Absent (1)

1

#### 6d. Microtopography.

Score all present using 0 to 3 scale.

- ☐ Vegetated hummocks/tussocks
- ☐ Coarse woody debris >15cm (6in)
- ☐ Standing dead >25cm (10in) dbh
- ☐ Amphibian breeding pools

0

#### Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

#### Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

#### Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

#### Microtopography Cover Scale

0	Absent
1	Present very small amounts or if more common of marginal quality
2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

Mod. 2

37.5

GRAND TOTAL(max 100 pts)

Sheet 18

Site: <u>EVP001 Wetland I</u>	Rater(s): <u>S. Harrelson</u> <u>H. Crowell</u>	Date: <u>6/17/08</u>
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2	2
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### Metric 1. Wetland Area (size).

max 6 pts.

subtotal

Select one size class and assign score.

- ☐ >50 acres (>20.2ha) (6 pts)
- ☐ 25 to <50 acres (10.1 to <20.2ha) (5 pts)
- ☐ 10 to <25 acres (4 to <10.1ha) (4 pts)
- ☐ 3 to <10 acres (1.2 to <4ha) (3 pts)
- ☒ 0.3 to <3 acres (0.12 to <1.2ha) (2pts)
- ☐ 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt)
- ☐ <0.1 acres (0.04ha) (0 pts)

2

4	6
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### Metric 2. Upland buffers and surrounding land use.

max 14 pts.

subtotal

2a. Calculate average buffer width. Select only one and assign score. Do not double check.

- ☐ WIDE. Buffers average 50m (164ft) or more around wetland perimeter (7)
- ☐ MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4)
- ☒ NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1)
- ☐ VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0)

2b. Intensity of surrounding land use. Select one or double check and average.

- ☐ VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7)
- ☒ LOW. Old field (>10 years), shrubland, young second growth forest. (5)
- ☐ MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3)
- ☒ HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1)

3

22	28
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### Metric 3. Hydrology.

max 30 pts.

subtotal

3a. Sources of Water. Score all that apply.

- ☐ High pH groundwater (5)
- ☐ Other groundwater (3)
- ☒ Precipitation (1)
- ☒ Seasonal/intermittent surface water (3)
- ☒ Perennial surface water (lake or stream) (5)

3c. Maximum water depth. Select only one and assign score.

- ☐ >0.7 (27.6in) (3)
- ☒ 0.4 to 0.7m (15.7 to 27.6in) (2)
- ☐ <0.4m (<15.7in) (1)

3e. Modifications to natural hydrologic regime. Score one or double check and average.

- ☐ None or none apparent (12)
- ☒ Recovered (7)
- ☒ Recovering (3)
- ☐ Recent or no recovery (1)

5

3b. Connectivity. Score all that apply.

- ☐ 100 year floodplain (1)
- ☒ Between stream/lake and other human use (1)
- ☐ Part of wetland/upland (e.g. forest), complex (1)
- ☒ Part of riparian or upland corridor (1)

3d. Duration inundation/saturation. Score one or dbl check.

- ☒ Semi- to permanently inundated/saturated (4)
- ☐ Regularly inundated/saturated (3)
- ☐ Seasonally inundated (2)
- ☐ Seasonally saturated in upper 30cm (12in) (1)

2

4

Check all disturbances observed

- ☐ ditch
- ☐ tile
- ☐ dike
- ☐ weir
- ☐ stormwater input

- ☐ point source (nonstormwater)
- ☐ filling/grading
- ☐ road bed/RR track
- ☐ dredging
- ☐ other \_\_\_\_\_

6	34
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### Metric 4. Habitat Alteration and Development.

max 20 pts.

subtotal

4a. Substrate disturbance. Score one or double check and average.

- ☐ None or none apparent (4)
- ☒ Recovered (3)
- ☐ Recovering (2)
- ☐ Recent or no recovery (1)

4b. Habitat development. Select only one and assign score.

- ☐ Excellent (7)
- ☐ Very good (6)
- ☐ Good (5)
- ☐ Moderately good (4)
- ☐ Fair (3)
- ☐ Poor to fair (2)
- ☒ Poor (1)

4c. Habitat alteration. Score one or double check and average.

- ☐ None or none apparent (9)
- ☐ Recovered (6)
- ☒ Recovering (3)
- ☒ Recent or no recovery (1)

2

Check all disturbances observed

- ☐ mowing
- ☐ grazing
- ☐ clearcutting
- ☐ selective cutting
- ☐ woody debris removal
- ☐ toxic pollutants

- ☐ shrub/sapling removal
- ☐ herbaceous/aquatic bed removal
- ☐ sedimentation
- ☐ dredging
- ☒ farming
- ☒ nutrient enrichment

34
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subtotal this page

Site: EVP001 Wetland I Rater(s): S. Harrelson,  
H. Crowell Date: 6/17/08

34

subtotal this page

0 34

max 10 pts.

subtotal

### Metric 5. Special Wetlands.

Check all that apply and score as indicated.

- ☐ Bog (10)
- ☐ Fen (10)
- ☐ Old growth forest (10)
- ☐ Mature forested wetland (5)
- ☐ Lake Erie coastal/tributary wetland-unrestricted hydrology (10)
- ☐ Lake Erie coastal/tributary wetland-restricted hydrology (5)
- ☐ Lake Plain Sand Prairies (Oak Openings) (10)
- ☐ Relict Wet Prairies (10)
- ☐ Known occurrence state/federal threatened or endangered species (10)
- ☐ Significant migratory songbird/water fowl habitat or usage (10)
- ☐ Category 1 Wetland. See Question 1 Qualitative Rating (-10)

3 37

max 20 pts.

subtotal

### Metric 6. Plant communities, interspersions, microtopography.

#### 6a. Wetland Vegetation Communities.

Score all present using 0 to 3 scale.

- ☒ Aquatic bed
- ☐ Emergent
- ☐ Shrub
- ☐ Forest
- ☐ Mudflats
- ☐ Open water
- ☐ Other

#### 6b. horizontal (plan view) Interspersion.

Select only one.

- ☐ High (5)
- ☐ Moderately high(4)
- ☐ Moderate (3)
- ☐ Moderately low (2)
- ☐ Low (1)
- ☒ None (0)

#### 6c. Coverage of invasive plants. Refer to Table 1 ORAM long form for list. Add or deduct points for coverage

- ☐ Extensive >75% cover (-5)
- ☐ Moderate 25-75% cover (-3)
- ☐ Sparse 5-25% cover (-1)
- ☒ Nearly absent <5% cover (0)
- ☐ Absent (1)

#### 6d. Microtopography.

Score all present using 0 to 3 scale.

- ☐ Vegetated hummocks/tussocks
- ☐ Coarse woody debris >15cm (6in)
- ☐ Standing dead >25cm (10in) dbh
- ☒ Amphibian breeding pools

#### Vegetation Community Cover Scale

0	Absent or comprises <0.1ha (0.2471 acres) contiguous area
1	Present and either comprises small part of wetland's vegetation and is of moderate quality, or comprises a significant part but is of low quality
2	Present and either comprises significant part of wetland's vegetation and is of moderate quality or comprises a small part and is of high quality
3	Present and comprises significant part, or more, of wetland's vegetation and is of high quality

#### Narrative Description of Vegetation Quality

low	Low spp diversity and/or predominance of nonnative or disturbance tolerant native species
mod	Native spp are dominant component of the vegetation, although nonnative and/or disturbance tolerant native spp can also be present, and species diversity moderate to moderately high, but generally w/o presence of rare threatened or endangered spp
high	A predominance of native species, with nonnative spp and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, the presence of rare, threatened, or endangered spp

#### Mudflat and Open Water Class Quality

0	Absent <0.1ha (0.247 acres)
1	Low 0.1 to <1ha (0.247 to 2.47 acres)
2	Moderate 1 to <4ha (2.47 to 9.88 acres)
3	High 4ha (9.88 acres) or more

#### Microtopography Cover Scale

0	Absent
1	Present very small amounts or if more common of marginal quality
2	Present in moderate amounts, but not of highest quality or in small amounts of highest quality
3	Present in moderate or greater amounts and of highest quality

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GRAND TOTAL(max 100 pts)

Mod. 2

Site: EVP001 Wetland J Rater(s): S. Harrison, Date: 6/17/08  
H. Crowell

2	2
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max 6 pts.

subtotal

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1	3
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**Metric 2. Upland buffers and surrounding land use.**

max 14 pts.

subtotal

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11.5	14.5
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max 30 pts.

subtotal

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☒ tile  
☐ dike  
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☐ stormwater input

- ☐ point source (nonstormwater)  
☐ filling/grading  
☐ road bed/RR track  
☐ dredging  
☒ other agriculture

6	20.5
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**Metric 4. Habitat Alteration and Development.**

max 20 pts.

subtotal

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☐ herbaceous/aquatic bed removal  
☐ sedimentation  
☐ dredging  
☒ farming  
☒ nutrient enrichment

20.5
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Summary: Application Appendix C - Surface Water Report (112-190) electronically filed by Mr. Michael J. Settineri on behalf of Buckeye Wind LLC