

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



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



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Site Photographs

Champaign County, Ohio

Date:

MARCH 2013

Project Number: EVP010



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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Date:

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Photo 101. Wetland KB facing east.



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Site Photographs

Champaign County, Ohio

Date:

MARCH 2013

Project Number: EVP010
File Name: EVP010.300.0012.xls

APPENDIX B

Wetland Delineation Data Sheets

| Project/Si | te: Ever Po | wer Proiect | | Project # EVP001 | Date: 11/21/08 | | |
|--|------------------------------|---|--------------------------|--|---|--|--|
| Applicant/ | Owner: Eve | er Power Inc. | | | County: Champaign | | |
| | ors: K. Carı | | -2 Y | /aa Cammia Dai | State: Ohio | | |
| | | ces exist on the site disturbed (Atypical | | es Sample Poi | n: Wetland A | | |
| | | Problem Area: | N | 0 | | | |
| VEGETAT | ION | (USFWS No | rtheast Region I | No.1, Sub-Region, (| Great Lakes Plain) | | |
| | See a | attached sheet for | listing of plant | species and identif | ication of dominant vegetation | | |
| | Dominant S al Test: 2 > | | L, FACW or FAC | : (excluding FAC-) = | 2/2 = 100 % | | |
| HYDROLO | GY | | | | | | |
| ☐ Str | eam, Lake o rial Photogra | cribe in Remarks): or Tide Gauge aphs | | Wetland Hydrology Indicators Primary Indicators ☐ Inundated ☐ Saturated in Upper 12 Inches ☐ Water Marks | | | |
| Field Obse | | of Pit or Auger: 12 <i>in</i> | | ☐ Drift Lines☐ Sediment☐ Drainage☐ Secondary Indi | Deposits Patterns in Wetlands | | |
| | epth of Surf | · · | | ☐Oxidized F ☐Water-Sta | Root Channels in Upper 12 Inches ned Leaves | | |
| D | epth to Free | e Water in Pit: - in. | | ☐Local Soil Survey Data ☐FAC-Neutral Test ☐Other(Explain in Remarks) | | | |
| D | epth to Satu | ırated Soil: - in. | | | an in remaine, | | |
| SOILS | | | | | | | |
| Map Unit N loam, 2-6% Map Symb | slopes ol:CnB | s and Phase):Celina Drainage Class : Aquic Hapludalfs | : mwd Map | o Unit Recognized as d Observations Conf | | | |
| Donth | | Matrix Color | Soil / P Mottle Color | Profile Description Mottle | | | |
| Depth bgs (inches) | Horizon | (Munsell Moist) | (Munsell Moist) | | rast Texture, Concretions, Structure | | |
| 0-12 | A/B | 10YR 3/2 | 10YR 3/6 | few/distinct | silty clay loam | | |
| | | | | | | | |
| ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☑ Reducing Conditions ☐ Gleyed or Low Chroma Colors | | | | ☐ Concretions ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other | | | |
| WETLAND | DETERMI | NATION | | | | | |
| WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes Hydric Soils Present? Yes | | | | | | | |
| | | evidence of hydro in a wetland. | phytic vegetatio | n, wetland hydrolo | gy, and hydric soils at this sample location. | | |

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

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

| Project/Site: Ever Power Project Applicant/Owner: Ever Power Inc. Investigators: K. Carr Do Normal circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area: Project # EVP001 County: Champaign State: Ohio Sample Point # SP3 Site Location: Wetland B | | | | | | | |
|--|---|--|--|--|--|--|--|
| Do Normal circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Yes Sample Point # SP3 Site Location: Wetland B | | | | | | | |
| Is the site significantly disturbed (Atypical Situation)? No Site Location: Wetland B | | | | | | | |
| | | | | | | | |
| is the area a potential Problem Area. | | | | | | | |
| | | | | | | | |
| 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-) = 2/3 = 67 % | | | | | | | |
| FAC Neutral Test: 3 > 0 = Pass | | | | | | | |
| HYDROLOGY | | | | | | | |
| ☐Recorded Data(Describe in Remarks): Wetland Hydrology Indicators | | | | | | | |
| Stream, Lake or Tide Gauge Primary Indicators | | | | | | | |
| Aerial Photographs | | | | | | | |
| ☐ Other ☐ Saturated in Upper 12 Inches | | | | | | | |
| │ │ │ │ │ Water Marks │ │ │ Drift Lines | | | | | | | |
| ☐ Sediment Deposits | | | | | | | |
| Field Observations | | | | | | | |
| Total Depth of Pit or Auger: 12 in. Secondary Indicators | | | | | | | |
| Oxidized Root Channels in Upper 12 Inches | | | | | | | |
| Depth of Surface Water: - in. ☐ Water-Stained Leaves ☐ Local Soil Survey Data | | | | | | | |
| Depth to Free Water in Pit: - in. | | | | | | | |
| Other(Explain in Remarks) | | | | | | | |
| Depth to Saturated Soil: - in. | | | | | | | |
| 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 Matrix Color Mottle Color Mottle | | | | | | | |
| bgs Horizon (Munsell Moist) (Munsell Moist) Abundance/Contrast Texture, Concretions, Structure | е | | | | | | |
| (inches) | | | | | | | |
| 1011C 37 2 1011C 37 4 Tew/distillet Silty Clay Ioani | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ☐ Histosol ☐ Concretions☐ Histic Epipedon☐ ☐ High Organic Content in Surface Layer in Sandy Soils☐ ☐ High Organic Content in Surface Layer in Sandy Soils☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ | | | | | | | |
| ☐ Instite Epipedon ☐ Ingri Organic Content in Sunace Layer in Sandy Soils ☐ Organic Streaking in Sandy Soils | | | | | | | |
| ☐ Aquic Moisture Regime ☐ Listed on Local Hydric Soils List | | | | | | | |
| Reducing Conditions Listed on National Hydric Soils List | | | | | | | |
| Gleyed or Low Chroma Colors Other | | | | | | | |
| WETLAND DETERMINATION | | | | | | | |
| Hydrophytic Vegetation Present? Yes Is the Sample Point within a Wetland? Yes | | | | | | | |
| Wetland Hydrology Present? Yes Hydric Soils Present? Yes | | | | | | | |
| Fryund Julia Frederit! | | | | | | | |

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.

1000.300

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

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

| Drainat/Ci | to. Duelseys | Mind Dawar Drain | -4 | P : | D-4 5/00/0000 | | |
|-----------------|------------------------------|--------------------------------------|------------------|---|---|--|--|
| _ | - | e Wind Power Project erpower Inc. | ct | Project # EVP001 | Date: 5/22/2008 County: Champaign | | |
| | | well; K. Carr; S.M H | arrelson | | State: Ohio | | |
| Do Norma | l circumstar | ices exist on the site | e? Y | /es Sample Point # SP10 | | | |
| | | disturbed (Atypical | | | on: Wetland H, Sheet 18 | | |
| Is the area | a a potential | Problem Area: | N | 10 | | | |
| VEGETAT | TON | (USFWS No | rtheast Region I | No.1, Sub-Region, | Great Lakes Plain) | | |
| | See | attached sheet for | listing of plant | species and identif | ication of dominant vegetation | | |
| | f Dominant S ral Test: 2 | | L, FACW or FAC | : (excluding FAC-) = | = 2/2 = 100 % | | |
| HYDROLO | OGY | | | | | | |
| | | scribe in Remarks): | | Wetland Hydrology | | | |
| | ream, Lake erial Photogr | or Tide Gauge | | Primary Indicat | | | |
| | nai Phologi her | αμιιο | | | I in Upper 12 Inches | | |
| | | | | ☐ Water Ma | ırks | | |
| No Red | corded Data | | | ☐ Drift Lines | | | |
| Field Obse | ervations | | | ☐ Sediment | Deposits Patterns in Wetlands | | |
| | | of Pit or Auger: 12 ir |). | Secondary Indi | cators | | |
| | | | | | Root Channels in Upper 12 Inches | | |
| Ľ | epth of Sur | face Water: - in. | | ☐Water-Stained Leaves ☐Local Soil Survey Data | | | |
| С | epth to Free | e Water in Pit: - in. | | FAC-Neutral Test | | | |
| | | | | Other(Explain in Remarks) | | | |
| | epth to Sat | urated Soil: 0 in | | | | | |
| SOILS | | | | | | | |
| Map Unit I | Name (Serie | s and Phase):Brook | ston silty | | | | |
| | 0 to 2 perce | | | | W 1: 0 | | |
| Map Symb | | Drainage Class Typic Argiaquolls: | | Our Unit Recognized as | s Hydric?: Yes firm Mapped Type? Yes | | |
| Taxonomy | (Subgroup | 7. Typic Argiaquolis | | Profile Description | пп марреи туре: тез | | |
| Depth | | Matrix Color | Mottle Color | Mottle | | | |
| bgs (inches) | Horizon | (Munsell Moist) | (Munsell Moist) | Abundance/Cont | rast Texture, Concretions, Structure | | |
| 0-10 | A/B | 10YR 3/1 | None | | | | |
| 10-12 | В | 10YR 3/1 | 10YR 3/4 | common | | | |
| | | | | | | | |
| | Histosol | | | Concretions | | | |
| <u> </u> | ☐Histic Epip ☐Sulfidic Od | | | | ontent in Surface Layer in Sandy Soils ng in Sandy Soils | | |
| | | sture Regime | | ☐ Listed on Local | | | |
| | Reducing Conditions | | | | nal Hydric Soils List | | |
| | Gleyed or | | | | | | |
| | D DETERMI | | | | | | |
| | ic Vegetatio | | | Is the Sample Poir | nt within a Wetland? Yes | | |
| | lydrology Pr ls Present? | esent? Ye Ye | - | | | | |
| . 194110 001 | io i rosont: | 10 | | 1 | | | |
| | | | and hydrology, a | and hydric soils we | ere observed at this sample location. This | | |
| sample p | oint is in a | wetland. | | | | | |
| | | | | | | | |

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

| 0050:50 | INDICATOR | OTD 4 TIME | PLANT | % | DOM:::::: |
|--------------------|--------------|--------------|-------|--------|-----------|
| SPECIES | STATUS | STRATUM | 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 | | | |
| | | TDM= | 73 | | |
| | | Shrub/Sap | | | |
| | | TDM= | 0 | | |
| | | Tree | | | |
| | | | | | |
| | | Tree Tree | | | |
| | | | | | |
| | | Tree | | | |
| | | Tree | | | |
| | | Tree | | | |
| | | TDM= | 0 | | |
| | | Vine | | | |
| | | TDM= | 0 | | |

| Project/Site: Buckeye Wind Power Project | Project # EVP001 | | |
|--|---|--|--|
| Applicant/Owner: Everpower Inc. Investigators: H. Crowell; S.M Harrelson | County: Logan State: Ohio | | |
| | Yes Sample Point # SP26 | | |
| , | o Site Location: Wetland I, Sheet 18 | | |
| Is the area a potential Problem Area: | No | | |
| 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 FAC Neutral Test: 1 > 0 = Pass | C: (excluding FAC-) = 1/1 = 100 % | | |
| FAC Neutral Test: 1 > 0 = Pass | | | |
| HYDROLOGY | | | |
| Recorded Data(Describe in Remarks): | Wetland Hydrology Indicators | | |
| ☐ Stream, Lake or Tide Gauge ☐ Aerial Photographs | Primary Indicators ☑ Inundated | | |
| Other | Saturated in Upper 12 Inches | | |
| ☑ No Recorded Data | ☐ Water Marks ☐ Drift Lines | | |
| M No Recorded Data | ☐ Sediment Deposits | | |
| Field Observations | ☐ Drainage Patterns in Wetlands | | |
| Total Depth of Pit or Auger: n/a in. | Secondary Indicators Oxidized Root Channels in Upper 12 Inches | | |
| Depth of Surface Water: 10 in. | ☐Water-Stained Leaves | | |
| Depth to Free Water in Pit: - in. | ☐ Local Soil Survey Data ☐ FAC-Neutral Test | | |
| · | Other(Explain in Remarks) | | |
| Depth to Saturated Soil: - in. | | | |
| SOILS | | | |
| Map Unit Name (Series and Phase):Celina silt loam, 2 to 6 percent slopes | | | |
| Map Symbol:CnB Drainage Class: mwd Ma | o Unit Recognized as Hydric?: No | | |
| | d Observations Confirm Mapped Type? Not Determined | | |
| Depth Matrix Color Mottle Color | Profile Description Mottle | | |
| bgs Horizon (Munsell Moist) (Munsell Moist) | | | |
| | | | |
| | | | |
| Histosol | Concretions | | |
| Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils | | |
| ☐Sulfidic Odor | ☐Organic Streaking in Sandy Soils | | |
| ☐Aquic Moisture Regime ☐Reducing Conditions | ☐Listed on Local Hydric Soils List ☐Listed on National Hydric Soils List | | |
| Gleyed or Low Chroma Colors | Other | | |
| WETLAND DETERMINATION | | | |
| Hydrophytic Vegetation Present? Yes | Is the Sample Point within a Wetland? Yes | | |
| Wetland Hydrology Present? Yes Hydric Soils Present? Yes | | | |
| Tryano Jolio Frodont: 163 | | | |

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.

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

| | . 5 . | W. ID D : | | | B (F/04/0000 | |
|------------|---------------------------|----------------------------------|--------------------|--------------------------------------|--|--|
| | • | Wind Power Project | CT | Project # EVP001 | Date: 5/21/2008 | |
| | | erpower Inc. r; S.M Harrelson | | | County: Champaign State: Ohio | |
| | | ces exist on the site | 2 Y | es Sample Poi | | |
| 1 | | disturbed (Atypical | | 1 ' | on: Wetland J | |
| | | Problem Area: | No. | | | |
| | | | | | | |
| VEGETAT | ION | (USFWS No | rtneast Region N | io.1, Sub-Region, | Great Lakes Plain) | |
| | See | attached sheet for | listing of plant s | pecies and identif | ication of dominant vegetation | |
| | | Species that are OB | L, FACW or FAC: | (excluding FAC-) = | = 1/1 = 100 % | |
| FAC Neutr | ral Test: 1 > | 0 = Pass | | | | |
| | | · | | | | |
| HYDROLO | OGY | | | | | |
| | | cribe in Remarks): | | Wetland Hydrolog | v Indicators | |
| | | or Tide Gauge | | Primary Indicat | | |
| | rial Photogr | aphs | | Inundated | | |
| ☐ Ott | ner | | | | l in Upper 12 Inches | |
| N | ondo - P - 1 | | | ☐ Water Ma | | |
| M NO Kec | orded Data | | | ☐ Drift Lines | | |
| Field Obse | rvations | | | | Patterns in Wetlands | |
| U . | | of Pit or Auger: 12 in |). | Secondary Indi | | |
| | | | | | Root Channels in Upper 12 Inches | |
| D | epth of Surf | ace Water: 1 in | | | ined Leaves | |
| _ | | | | Local Soil Survey Data | | |
| D | epth to Free | Water in Pit: - in. | | ☐ FAC-Neutral Test | | |
| م ا | epth to Satu | ırated Soil: 0 in | | ☐Other(Explain in Remarks) | | |
| | cpui to oatt | nated don | | | | |
| SOILS | | | | | | |
| Map Unit N | lame (Serie | s and Phase):Algie | rs silt | | | |
| loam | | | | | | |
| Map Symb | | Drainage Class | | Unit Recognized as | s Hydric?: | |
| raxonomy | (Subgroup) | : Aquic Udifluvents | | rofile Description | im wapped Type? No | |
| Depth | | Matrix Color | Mottle Color | Mottle | | |
| bgs | Horizon | (Munsell Moist) | (Munsell Moist) | Abundance/Cont | rast Texture, Concretions, Structure | |
| (inches) | | (| (| | , | |
| 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 | |
| <u> </u> | | | | ' | | |
| ļ |]Lioto! | <u> </u> | L | ☐Concretions | | |
| - |]Histosol]Histic Epip | edon | | | ontent in Surface Layer in Sandy Soils | |
| |]Sulfidic Od | | | ☐Organic Streaki | | |
| | _ | ture Regime | | Listed on Local | | |
| | Reducing (| Conditions | | Listed on National Hydric Soils List | | |
| | Gleyed or | Low Chroma Colors | <u> </u> | Other | | |
| WETLAND | DETERMI | NATION | | | | |
| | c Vegetatio | | s | Is the Sample Poir | nt within a Wetland? Yes | |
| Wetland H | ydrology Pro | | | . | •• | |
| | s Present? | Ye | s | | | |
| | | | | | | |
| Remarks: | Hydrophyti | c vegetation, wetla | and hydrology, a | nd hydric soils we | ere observed at this sample location. This | |
| sample po | oint is in a v | vetland. | | | | |
| | | | | | | |
| 1 | | | | | | |

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

| INDICATOR STATUS | STRATUM | PLANT COVER | % OF TDM | DOMINANT |
|---------------------|----------------------------|----------------------------|-------------|-----------------------------------|
| | 1 | 90 | 100% | Yes |
| | | | | |
| | 1 | | | |
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| | | | | |
| | | | | - |
| | Vine TDM= | 0 | | |
| | INDICATOR STATUS FACW+ | STATUS STRATUM FACW+ | STATUS | STATUS STRATUM COVER OF TDM |

| | | | | | T = -1-1/2-2-2 | |
|---|----------------------------|----------------------------------|------------------|--|--|--|
| | | Wind Power Project | ct | Project # EVP001 | Date: 5/21/2008 | |
| | | erpower Inc. r; S.M Harrelson | | | County: Champaign State: Ohio | |
| | | ces exist on the site | | res Sample Point # SP5 | | |
| | | disturbed (Atypical | • • | | on: Wetland K, Sheet 19 | |
| | | Problem Area: | , N | | , | |
| VEGETAT | ION | (USFWS No | rtheast Region I | No.1, Sub-Region, (| Great Lakes Plain) | |
| | See | attached sheet for | listing of plant | species and identif | ication of dominant vegetation | |
| | Dominant S | • | L, FACW or FAC | : (excluding FAC-) = | = 2/2 = 100 % | |
| HYDROLO | OGY | | | | | |
| | | scribe in Remarks): | | Wetland Hydrology | y Indicators | |
| | | or Tide Gauge | | Primary Indicat | ors | |
| | rial Photogr | apns | | ☐ Inundated | l In Upper 12 Inches | |
| | 101 | | | ☐ Water Ma | | |
| No Recommendation No Recommendation | orded Data | | | Drift Lines | | |
| E: 1101 | | | | Sediment | | |
| Field Obse | | of Pit or Auger: 12 ir | 1 | Secondary Indi | Patterns in Wetlands | |
| | otal Doptil C | n i it of Auger. 12 ii | | | Root Channels in Upper 12 Inches | |
| D | epth of Surf | ace Water: 1 in. | | | ined Leaves | |
| 6 | | - Mataria Dit. | | Local Soil Survey Data | | |
| D | epth to Free | e Water in Pit: - in. | | | | |
| D | epth to Satu | urated Soil: 0 in | ı. | | idii iii recindiko) | |
| SOILS | | | | | | |
| | Jame (Serie | s and Phase):Miam | i silt | | | |
| | | noderately eroded | ii oiit | | | |
| Map Symb | | Drainage Class | | Unit Recognized as | | |
| Taxonomy | (Subgroup) | : Typic Hapludalfs | | d Observations Cont Profile Description | firm Mapped Type? No | |
| Depth | | Matrix Color | Mottle Color | Mottle | | |
| bgs (inches) | Horizon | (Munsell Moist) | (Munsell Moist) | | rast 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 | |
| | | | | | | |
| ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☑ Gleyed or Low Chroma Colors | | | | ☐ Concretions ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other | | |
| WETLAND | DETERMI | NATION | | | | |
| | ic Vegetatio | | | Is the Sample Poir | nt within a Wetland? Yes | |
| | ydrology Pr ls Present? | esent? Ye Ye | - | | | |
| 1 1 1 3 4 1 1 0 0 0 1 | | 10 | · <u>·</u> | <u>I</u> | | |
| | Hydrophyti pint is in a | | and hydrology, a | and hydric soils we | ere observed at this sample location. This | |
| sample po | אווו פו זווו מ' | welland. | | | | |

HULL & ASSOCIATES, INC. 2007

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

| | INDICATOR | | PLANT | % | |
|----------------------|--------------|-----------|-------|--------|----------|
| SPECIES | STATUS | STRATUM | 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 | | | |
| | | TDM= | 74 | | |
| | | Shrub/Sap | | | |
| | | TDM= | 0 | | |
| | | Tree | | | |
| | | TDM= | 0 | | |
| | | Vine | | | |
| | | TDM= | 0 | | |

| Project/Sit | e: Buckeye Wind Power | | | City/Cou | nty: Cham | paign | | Sampling D | ate: 8/12/2009 |
|----------------------|---|---------------|----------------------------|--------------|---------------|------------------|-----------|--------------------------|--------------------------------------|
| Applicant/ | Owner: EverPower | | | State: Of | nio | | | Sampling Po | oint: SP30 |
| Investigate | or(s): K. Carr; S.M. Harro | elson | | Section, | Township | , Range | :: Unior | n Twp | |
| Landform (| hillslope, terrace, etc.): fl | at | | Lo | cal relief (| concave, | convex | , none): none | • |
| Slope (%):0 | Lat: 40.0875 | 7034020 | Long: | -83.580886 | 603750 | | | ım: NAD83 | |
| Soil Map U | nit Name: Algiers silt loa | am | | | | N | WI class | sification: non | е |
| Are climation | c/hydrologic conditions o | n the site ty | pical for this time of | year? Yes | s (If no, e | xplain in | Remark | cs.) | |
| Are Vegeta | ition ☐, Soil ☐, or Hyd | Irology 🗌 | significantly disturbe | ed? Are "No | ormal Circ | umstance | es" pres | ent? Yes | |
| Are Vegeta | ition ☐, Soil ☐, or Hyd | lrology 🔲 n | naturally problematic? | ? (If neede | d, explain | any ansv | wers in F | Remarks).No | |
| SUMMAR | Y FINDINGS – Attac | h site map | showing sampli | ing point | locations | s, trans | ects, ir | mportant fe | eatures, etc. |
| Hydrophyti | c Vegetation Present? | Yes | | le the | e Sampleo | l Area | | | |
| Hydric Soil | · · | Yes | | | in a Wetla | | Yes | | |
| 1 | | | | Withi | iii a vvetia | iiu r | 165 | | |
| Wetland H | ydrology Present? | Yes | | | | | | | |
| | This is Wetland L. There | | ce of hydrophytic ve | getation, hy | ydric soil, a | nd wetla | and hydr | ology at this | sample location. This |
| sample poi | nt is in a wetland. Figure | e 10. | | | | | | | |
| VEGETA | ΓΙΟΝ | (US | FWS Region No. | 1 - North | east Sub | -Regio | n) | | |
| | See attac | ched sheet | for listing of plant | species an | d identific | ation of | f domina | ant vegetation | on |
| Percent of | Dominant Species that a | re OBL, FA | CW or FAC: (exclud | ing FAC-) = | = 3/3 = 100 |) % | | | |
| FAC Neutr | al Test: 3 > 0 = Pass | | · | , | | | | | |
| Prevalence | | | | | | | | | |
| | | | | | | | | | |
| Remarks: | This plant community is h | nydrophytic. | | | | | | | |
| SOIL | | | LRR: M | | | | | | |
| Profile Des Depth | scription: (Describe to Matrix | the depth | | nt the indic | | nfirm th | ne abser | nce of indica | itors.) |
| (Inches) | Color (moist) | % | Color (moist) | % | Type | Loc ² | Text | ture | Remarks |
| 0-6 | 10YR 3/1 | | None | | | | clay | ey silt/ | saturated |
| 6-12 | 10YR 3/1 | 75 | 10YR 3/6 | 25 | С | М | silty | / clay | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 'Type: C=C | oncentration, D=Deplet | ion, RM=Re | duced Matrix, CS=C | overed or (| Coated Sai | nd Grains | s. | ² Location: I | PL=Pore Lining, M=Matrix |
| | I Indicators: | | | | | | _ | | olematic Hydric Soils ³ : |
| Histoso | ` ' | | Sandy Gleyed | | 1) | | | oast Prairie R | ` , |
| | Epipedon (A2) Histic (A3) | | Sandy Redox Stripped Matri | , , | | | _ | _ | e Masses (F12) |
| _ | gen Sulfide (A4) | | Loamy Mucky | ` ' | :1) | | | ther (Explain | in Remarks) |
| _ ' ' | ed Layers (A5) | | Loamy Gleyed | , | , | | | | |
| | luck (A10) | | Depleted Mati | • | - / | | | | |
| ☐ Deplete | ed Below Dark Surface (| A11) | Redox Dark S | Surface (F6) |) | | | | |
| | Dark Surface (A12) | | Depleted Dark | | F7) | | | | phytic vegetation and |
| | Mucky Mineral (S1) Mucky Peat or Peat (S3) | | Redox Depres | ssions (F8) | | | wet | tland hydrolog | gy must be present. |
| | Layer (if observed): | | | | | | | | |
| Type: | , , | | | | | | - | Soil Presen | |
| | inches): | | | | | | Soil pi | t dug? | Yes |
| Remarks: | | | | | | | | _ | |
| | There was evidence of I | nydric soils. | | | | | (if yes | select one): | Soil Spade |
| | There was evidence of I | nydric soils. | | | | | (if yes | select one): | Soil Spade |

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DUBLIN, OHIO

OCTOBER 2007
1000.300

| | | PAGE 2 |
|--|--|--|
| | | Sampling Date: 8/12/2009 |
| | | Sampling Point: SP30 |
| HYDROLOGY | | |
| Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is r</u> | required: check all that apply) | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | ☐ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| Saturation (A3) | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | ☐ Presence of Reduced Iron (C4) | Geomorphic Position (D2) |
| Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Aerial Imagery | y (B7) Gauge or Well Data (D9) | |
| Sparsely Vegetated Concave Surface | ce (B8) | |
| Field Observations: | | |
| Surface Water Present? No D | Depth (Inches): | |
| Water Table Present? No D | Depth (Inches): | |
| Saturation Present? Yes (includes capillary fringe) | Depth (Inches): 0 Wetland Hydrology Pr | resent? Yes |
| Recorded Data (Describe in Rel | marks): | |
| ☐ Stream, Lake, or Tide Gauge☐ Aerial Photographs☐ Other | е | |
| No Recorded Data | | |
| Remarks: There was evidence of prima | ry or secondary wetland hydrology. | |
| | | |
| | | |

HULL & ASSOCIATES, INC. DUBLIN, OHIO

| 005000 | INDICATOR | 0.75 | PLANT | % | DOM:::::: |
|----------------------|-----------|-----------|-------|--------|-----------|
| SPECIES | STATUS | STRATUM | COVER | OF TDM | DOMINANT |
| Typha latifolia | OBL | Herb | 30 | 25% | Yes |
| Ipomoea pandurata | FACU | Herb | 20 | 17% | |
| Aster lateriflorus | FACW- | Herb | 30 | 25% | Yes |
| Vernonia gigantea | FAC | Herb | 8 | 7% | |
| Agrimonia parviflora | FAC | Herb | 5 | 4% | |
| Phalaris arundinacea | FACW+ | Herb | 25 | 21% | Yes |
| | | Herb | | | |
| | | TDM= | 118 | | |
| | | Shrub/Sap | | | |
| | | TDM= | 0 | | |
| | | Tree | | | |
| | | TDM= | 0 | | |
| | | Vine | J | | |
| | | Vine | | | |
| | | | | | |
| | | Vine | | | |
| | | Vine TDM= | 0 | | |

| Project/Sit | te: Ever Power Project - | - Wetland M | | City/Cou | inty: Cham | paign | Sampling I | Date: 6/29/2011 |
|---|--|-------------------------------|--|--|------------------|-------------|---|--|
| Applicant/ | Owner: Ever Power Inc |) . | • | State: O | Н | | Sampling I | Point: SP32 |
| ı | or(s): B.M. Falkinburg / | | ell. | Section, | Township | , Range: | : | |
| <u> </u> | (hillslope, terrace, etc.): | | | Lo | cal relief (c | oncave. o | convex, none): Coi | ncave |
| Slope (%): | • | | Long: | - | Datur | | ,, | |
| | Init Name: BsA, Brooks | ton silty cla | _ | | 20101 | | /I classification: | |
| | c/hydrologic conditions | | | vear? Ye | s (Ifnoe | | | |
| | ation [], Soil [], or Hy | | | | | | | |
| | ation ☐, Soil ☐, or Hy ation ☐, Soil ☐, or Hy | | | | | | | |
| Are vegeta | ation [], Soil [], or Hy | arology [_] | maturally problematic | or (ii lieede | eu, explaill a | ally allowe | ers in Nemarks).N | · · · · · · · · · · · · · · · · · · · |
| SUMMAR | RY FINDINGS - Atta | ch site ma | p showing samp | ling point | locations | s, transe | cts, important f | features, etc. |
| Hydrophyti | ic Vegetation Present? | Yes | | ls th | e Sampled | l Area | | |
| 1 ' ' ' | - | | | | • | | 'es | |
| Hydric Soil | Present? | Yes | | With | in a Wetlaı | iur i | es | |
| Wetland H | lydrology Present? | Yes | | ′ | | | | |
| Remarks | The required wetland cr | riteria have | been met. | l | | | | |
| | required tresionid of | | | | | | | |
| | | | ···· | | | | | |
| VEGETA [*] | TION | (U | SFWS Region No | . 1 - North | neast Sub | -Region |) | |
| | See atta | ached shee | t for listing of plant | species a | nd identific | ation of | dominant vegetat | tion |
| Percent of | Dominant Species that | | | • | | | | |
| | | ale ODL, I | AOW OF AO. (CACIO | unig i AO-) | - 171 100 | ,,, | | |
| FAC Neutr | ral Test: 1 > 0 = Pass | | | | | | | |
| Prevalence | e Index = | | | | | | | |
| Remarks: | The hydrophytic vegeta | tion criterio | n has been met. | | | · | <u></u> | |
| SOIL | • | | | | | | | |
| JOIL | | | LRR: M | | | | | |
| Profile De | scription: (Describe t | o the depth | needed to docume | | | onfirm the | absence of indic | cators.) |
| Profile De Depth | Matrix | | needed to docume Re | edox Featur | es | | | |
| Profile De | Matrix Color (moist) | o the depth | needed to docume | | | nfirm the | absence of indic | cators.) Remarks |
| Profile De Depth (Inches) | Matrix | % | needed to docume Re | edox Featur | es | | Texture | |
| Profile De Depth (Inches) 0-1 | Matrix Color (moist) 2.5Y3 / 3 | % 100 | needed to docume Re Color (moist) | edox Featur % | es | | Texture silt loam | |
| Profile De Depth (Inches) 0-1 | Matrix Color (moist) 2.5Y3 / 3 | % 100 | needed to docume Re Color (moist) | edox Featur % | es | | Texture silt loam | |
| Profile De Depth (Inches) 0-1 | Matrix Color (moist) 2.5Y3 / 3 | % 100 | needed to docume Re Color (moist) | edox Featur % | es | | Texture silt loam | |
| Profile De Depth (Inches) 0-1 | Matrix Color (moist) 2.5Y3 / 3 | % 100 | needed to docume Re Color (moist) | edox Featur % | es | | Texture silt loam | |
| Profile De Depth (Inches) 0-1 | Matrix Color (moist) 2.5Y3 / 3 | % 100 | needed to docume Re Color (moist) | edox Featur % | es | | Texture silt loam | |
| Profile Depth (Inches) 0-1 1-13 | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 | % 100 80 | Re Color (moist) 7.5YR 3 / 4 | edox Featur % 20 | es Type! | Loc² | Texture silt loam silt loam | |
| Profile Der Depth (Inches) 0-1 1-13 'Type: C=C Hydric So | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Deple il Indicators: | % 100 80 | needed to docume ReColor (moist) 7.5YR 3 / 4 Reduced Matrix, CS= | 20 Covered or | es Type! | Loc² | Texture silt loam silt loam ²Location: Indicators for Pre | Remarks PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : |
| Profile Der Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histos | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Deple il Indicators: | % 100 80 | needed to docume ReColor (moist) 7.5YR 3 / 4 Reduced Matrix, CS= | 20 Covered or add Matrix (S | es Type! | Loc² | Texture silt loam silt loam ²Location: Indicators for Pro | PL=Pore Lining, M=Matrix oblematic Hydric Soils ⁵ : Redox (A16) |
| Profile Der Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histos Histos | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Deple il Indicators: ol (A1) Epipedon (A2) | % 100 80 | needed to docume ReColor (moist) 7.5YR 3 / 4 Reduced Matrix, CS= Sandy Gleye Sandy Redo | 20 Covered or ad Matrix (S x (S5) | es Type! | Loc² | Texture silt loam silt loam ²Location: Indicators for Pro Coast Prairie Iron-Mangane | PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) |
| Profile Der Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histos Histos Black | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Depler il Indicators: ol (A1) Epipedon (A2) Histic (A3) | % 100 80 | needed to docume Re Color (moist) 7.5YR 3 / 4 reduced Matrix, CS= Sandy Gleye Sandy Redo Stripped Mat | 20 Covered or ad Matrix (S x (S5) trix (S6) | Coated Sar | Loc² | Texture silt loam silt loam ²Location: Indicators for Pro Coast Prairie Iron-Mangane | PL=Pore Lining, M=Matrix oblematic Hydric Soils ⁵ : Redox (A16) |
| Profile December Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histos Histos Histos Histos Histos Hydrog | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Deplering indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) | % 100 80 | needed to docume ReColor (moist) 7.5YR 3 / 4 reduced Matrix, CS= Sandy Gleye Sandy Redo Stripped Mat Loamy Muck | 20 Covered or ad Matrix (S x (S5) trix (S6) try Mineral (I | Coated Sar | Loc² | Texture silt loam silt loam ²Location: Indicators for Pro Coast Prairie Iron-Mangane | PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) |
| Profile December Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histic Black Hydrog Stratific | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Depleration in the concentration i | % 100 80 | needed to docume ReColor (moist) 7.5YR 3 / 4 reduced Matrix, CS= Sandy Gleye Sandy Redo Stripped Mat Loamy Muck Loamy Gleye | 20 Covered or ed Matrix (S x (S5) trix (S6) ty Mineral (Ied Matrix (Fed Matri | Coated Sar | Loc² | Texture silt loam silt loam ²Location: Indicators for Pro Coast Prairie Iron-Mangane | PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) |
| Profile Der Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histos Histos Histos Hydrog Stratifi 2 cm M | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Depler il Indicators: iol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) Muck (A10) | % 100 80 etion, RM=R | needed to docume Re Color (moist) 7.5YR 3 / 4 Reduced Matrix, CS=0 Sandy Gleye Sandy Redo Stripped Mat Loamy Muck Loamy Gleye Depleted Ma | 20 Covered or ed Matrix (S x (S5) trix (S6) try Mineral (I ed Matrix (F3) | Coated Sar 4) | Loc² | Texture silt loam silt loam ²Location: Indicators for Pro Coast Prairie Iron-Mangane | PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) |
| Profile De: Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histic Black Hydrog Stratifi 2 cm M Deplet | Concentration, D=Depleration (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) Muck (A10) ted Below Dark Surface | % 100 80 etion, RM=R | needed to docume Re Color (moist) 7.5YR 3 / 4 Reduced Matrix, CS=0 Sandy Gleye Sandy Redo Stripped Mat Loamy Muck Loamy Gleye Depleted Ma Redox Dark | 20 Covered or ed Matrix (S x (S5) trix (S6) try Mineral (I ed Matrix (F3) Surface (F6) | Coated Sar 4) | Loc² | Texture silt loam silt loam ²Location: Indicators for Pro Coast Prairie Iron-Mangane Other (Explain | PL=Pore Lining, M=Matrix oblematic Hydric Soils ⁵ : Redox (A16) ese Masses (F12) in in Remarks) |
| Profile Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histic Black Hydrog Stratifi 2 cm M Deplet Thick | Concentration, D=Depleration (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) Muck (A10) ted Below Dark Surface Dark Surface (A12) | % 100 80 etion, RM=R | needed to docume Re Color (moist) 7.5YR 3 / 4 Reduced Matrix, CS=0 Sandy Gleyet Sandy Redot Stripped Matthe Loamy Muck Loamy Gleyet Depleted Matthe Redox Dark Depleted Da | 20 Covered or ed Matrix (S x (S5) trix (S6) trix (F3) Surface (F6 rk Surface en fectors and surface en fectors (F3) | Coated Sal | Loc² | Texture silt loam silt loam ²Location: Indicators for Pre Coast Prairie Iron-Mangane Other (Explain | PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) |
| Profile Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histic Black Hydrog Stratifi 2 cm M Deplet Thick I Sandy | Concentration, D=Depletial Indicators: sol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) Muck (A10) ted Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) | % 100 80 etion, RM=R | needed to docume Re Color (moist) 7.5YR 3 / 4 Reduced Matrix, CS=0 Sandy Gleye Sandy Redo Stripped Mat Loamy Muck Loamy Gleye Depleted Ma Redox Dark | 20 Covered or ed Matrix (S x (S5) trix (S6) trix (F3) Surface (F6 rk Surface en fectors and surface en fectors (F3) | Coated Sal | Loc² | Texture silt loam silt loam ²Location: Indicators for Pre Coast Prairie Iron-Mangane Other (Explain | PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : Redox (A16) ase Masses (F12) in in Remarks) |
| Profile Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histic Black Hydrog Stratifi 2 cm M Deplet Sandy 5 cm M Restrictive | Concentration, D=Depleration (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) Muck (A10) ted Below Dark Surface Dark Surface (A12) | % 100 80 etion, RM=R | needed to docume Re Color (moist) 7.5YR 3 / 4 Reduced Matrix, CS=0 Sandy Gleyet Sandy Redot Stripped Matthe Loamy Muck Loamy Gleyet Depleted Matthe Redox Dark Depleted Da | 20 Covered or ed Matrix (S x (S5) trix (S6) trix (F3) Surface (F6 rk Surface en fectors and surface en fectors (F3) | Coated Sal | Loc² | Texture silt loam silt loam ²Location: Indicators for Pre Coast Prairie Iron-Mangane Other (Explain ³Indicators of hydrole | PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) in in Remarks) |
| Profile Depth (Inches) 0-1 1-13 'Type: C=C Hydric So Histic Black Hydrog Stratifi 2 cm M Deplet Sandy 5 cm M Restrictive Type: | Concentration, D=Depletial Indicators: col (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) Muck (A10) ted Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) e Layer (if observed): | % 100 80 etion, RM=R | needed to docume Re Color (moist) 7.5YR 3 / 4 Reduced Matrix, CS=0 Sandy Gleyet Sandy Redot Stripped Matthe Loamy Muck Loamy Gleyet Depleted Matthe Redox Dark Depleted Da | 20 Covered or ed Matrix (S x (S5) trix (S6) trix (F3) Surface (F6 rk Surface en fectors and surface en fectors (F3) | Coated Sal | Loc² | Texture silt loam silt loam 2Location: Indicators for Pro Coast Prairie Iron-Mangane Other (Explair 3Indicators of hydrologen wetland hydrologen) Hydric Soil Prese | PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) en in Remarks) rophytic vegetation and ogy must be present. |
| Profile Depth (Inches) 0-1 1-13 'Type: C=0 Hydric So Histic Black Hydro Stratifi 2 cm M Deplet Thick I Sandy 5 cm M Restrictive Type: Depth: | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Depler in Indicators: col (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ited Layers (A5) Muck (A10) ted Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) e Layer (if observed): (inches): | % 100 80 etion, RM=R | Reduced Matrix, CS=0 Sandy Gleye Sandy Redo Stripped Mat Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre | 20 Covered or ed Matrix (S x (S5) trix (S6) trix (F3) Surface (F6 rk Surface en fectors and surface en fectors (F3) | Coated Sal | Loc² | Texture silt loam silt loam **Location: Indicators for Pro Coast Prairie Iron-Mangane Other (Explair **Indicators of hydrol wetland hydrol Hydric Soil Prese Soil pit dug? | PL=Pore Lining, M=Matrix oblematic Hydric Soils ⁵ : Redox (A16) ese Masses (F12) in in Remarks) rophytic vegetation and ogy must be present. |
| Profile Depth (Inches) 0-1 1-13 'Type: C=0 Hydric So Histic Black Hydro Stratifi 2 cm M Deplet Thick I Sandy 5 cm M Restrictive Type: Depth: | Concentration, D=Depletial Indicators: col (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ied Layers (A5) Muck (A10) ted Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) e Layer (if observed): | % 100 80 etion, RM=R | Reduced Matrix, CS=0 Sandy Gleye Sandy Redo Stripped Mat Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre | 20 Covered or ed Matrix (S x (S5) trix (S6) trix (F3) Surface (F6 rk Surface en fectors and surface en fectors (F3) | Coated Sal | Loc² | Texture silt loam silt loam 2Location: Indicators for Pro Coast Prairie Iron-Mangane Other (Explair 3Indicators of hydrologen wetland hydrologen) Hydric Soil Prese | PL=Pore Lining, M=Matrix oblematic Hydric Soils ⁵ : Redox (A16) ese Masses (F12) in in Remarks) rophytic vegetation and ogy must be present. |
| Profile Depth (Inches) 0-1 1-13 'Type: C=0 Hydric So Histic Black Hydro Stratifi 2 cm M Deplet Thick I Sandy 5 cm M Restrictive Type: Depth: | Matrix Color (moist) 2.5Y3 / 3 2.5Y4 / 2 Concentration, D=Depler in Indicators: col (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ited Layers (A5) Muck (A10) ted Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) e Layer (if observed): (inches): | % 100 80 etion, RM=R | Reduced Matrix, CS=0 Sandy Gleye Sandy Redo Stripped Mat Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre | 20 Covered or ed Matrix (S x (S5) trix (S6) trix (F3) Surface (F6 rk Surface en fectors and surface en fectors (F3) | Coated Sal | Loc² | Texture silt loam silt loam **Location: Indicators for Pro Coast Prairie Iron-Mangane Other (Explair **Indicators of hydrol wetland hydrol Hydric Soil Prese Soil pit dug? | PL=Pore Lining, M=Matrix oblematic Hydric Soils ⁵ : Redox (A16) ese Masses (F12) in in Remarks) rophytic vegetation and ogy must be present. |

| | | PAGE 2 |
|--|--|--|
| | | Sampling Date: 6/29/2011 Sampling Point: SP32 |
| | | Samping Form. SF 52 |
| HYDROLOGY Wetland Hydrology Indicators: | | |
| Primary Indicators (minimum of one is required: | check all that apply) | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | ☑ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| Saturation (A3) | ☐ True Aquatic Plants (B14) | Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | Presence of Reduced Iron (C4) | Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Gauge or Well Data (D9) | |
| Sparsely Vegetated Concave Surface (B8) | Other (Explain in Remarks) | |
| Field Observations: | | |
| Surface Water Present? No Depth (In | ches): | |
| Water Table Present? No Depth (In | ches): | |
| Saturation Present? No Depth (Includes capillary fringe) | ches): Wetland Hydrology Pi | resent? Yes |
| ☐ Recorded Data (Describe in Remarks): | | |
| ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other | | |
| ☑ No Recorded Data | | |
| Remarks: The wetland hydrology criterion has l | peen met. | |
| Wetland appears to be isolated with no observe | ed 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 | | | |
| | | TDM= | 100 | | |
| | | Shrub/Sap | | | |
| | | TDM= | 0 | | |
| | | Tree | | | |
| | | Tree | | | |
| | | Тгее | | | |
| | | Tree | | | |
| | · | Tree | | | |
| | | TDM= | 0 | | |
| | | Vine | | | |
| | | TDM= | 0 | | |

| Slope (%): Lat: Long: Datum: Soil Map Unit Name: BsA, Brookston silty clay loam, 0-2% slopes | Sampling Date: 6/29/2011 Sampling Point: SP33 |
|--|---|
| Investigator(s): B.M. Falkinburg / H.F. Crowell Landform (hillslope, terrace, etc.): Swale Slope (%): Lat: Long: Datum: Soil Map Unit Name: BsA, Brookston silty clay loam, 0-2% slopes | |
| Landform (hillslope, terrace, etc.): Swale Slope (%): Lat: Long: Datum: Soil Map Unit Name: BsA, Brookston silty clay loam, 0-2% slopes | ' |
| Landform (hillslope, terrace, etc.): Swale Slope (%): Lat: Long: Datum: Soil Map Unit Name: BsA, Brookston silty clay loam, 0-2% slopes | e: : |
| Slope (%): Lat: Long: Datum: Soil Map Unit Name: BsA, Brookston silty clay loam, 0-2% slopes | e, convex, none): Concave |
| Con map of the real real control only only only only only only | • |
| 1 | NWI classification: |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes (If no, explain i | n Remarks.) |
| Are Vegetation 🔲, Soil 🔯, or Hydrology 🔲 significantly disturbed? Are "Normal Circumstan | ces" present? No |
| Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? (If needed, explain any an | swers in Remarks).No |
| SUMMARY FINDINGS – Attach site map showing sampling point locations, tran | sects, important features, etc. |
| Hydrophytic Vegetation Present? Yes Is the Sampled Area | |
| Hydric Soil Present? No within a Wetland? | Yes |
| Wetland Hydrology Present? Yes | |
| Remarks: Recently graded drainage swale (w/in 12 months) - man made or man-induced wetlar field with dominance of hydrophytic vegetation and evidence of hydrology, but disturbed and mix unit for Champaign County, Ohio. Thus, the required wetland criteria have been met. | nd comprised of a grassy waterway in agriculture ked soils. BsA is an NRCS mapped hydric soil |
| VEGETATION (USFWS Region No. 1 - Northeast Sub-Region No. 1 - Northeast Su | on) |
| See attached sheet for listing of plant species and identification of | of dominant vegetation |
| Percent of Dominant Species that are OBL, FACW or FAC: (excluding FAC-) = 3/3 = 100 % | 1444 |
| FAC Neutral Test: 2 > 0 = Pass | |
| Prevalence Index = | |
| | |
| Remarks: The hydrophytic vegetation criterion has been met. | |
| SOIL LRR: M Profile Description: (Describe to the depth needed to document the indicator or confirm | the absence of indicators) |
| Depth Matrix Redox Features | the absence of filateators.) |
| (Inches) Color (moist) % Color (moist) % Type' Loc | |
| 0-12 | silty clay loam mixed sub/soil fill |
| | |
| | |
| | |
| | |
| | |
| | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grain Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F3) Peopleted Matrix (F3) | ins. ² Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Other (Explain in Remarks) |
| Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F3) Com Muck (A10) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Gleyed Matrix (F3) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) | Indicators for Problematic Hydric Soils ³ : ☐ Coast Prairie Redox (A16) ☐ Iron-Manganese Masses (F12) |
| Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F3) Community Communi | Indicators for Problematic Hydric Soils ³ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Other (Explain in Remarks) Jindicators of hydrophytic vegetation and |

HULL & ASSOCIATES, INC. DUBLIN, OHIO

| | | 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) |
| Surface Water (A1) | ☐ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | Aquatic Fauna (B13) | ☑ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| ⊠ Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | Presence of Reduced Iron (C4) | Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Aerial Imagery (B7) | ☐ Gauge or Well Data (D9) | |
| ☐ Sparsely Vegetated Concave Surface (B8) | Other (Explain in Remarks) | |
| Field Observations: | | |
| Surface Water Present? No Depth (In | ches): | |
| Water Table Present? No Depth (In | ches): | |
| Saturation Present? No Depth (In (includes capillary fringe) | ches): Wetland Hydrology Pi | resent? Yes |
| Recorded Data (Describe in Remarks): | | |
| ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other | | , |
| ⊠ No Recorded Data | | |
| Remarks: The wetland hydrology criterion has b | peen met. | |
| Wetland appears to be non-isolated, outlets to v S. | vetland ditch in upland woods to east and eventually | drains through agriculture fields off site to Stream |
| | | |

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

| | INDICATOR | | PLANT | % | |
|--|-----------|-----------|-------|--------|----------|
| SPECIES | STATUS | STRATUM | COVER | OF TDM | DOMINANT |
| Echinochloa muricata | FACW+ | Herb | 90 | 90% | Yes |
| Eleocharis obtusa | OBL | Herb | 88 | 8% | |
| Carex squarrosa | FACW | Herb | 22 | 2% | |
| | | Herb | | | |
| | | Herb | | | |
| | | Herb | | | <u> </u> |
| | | Herb | | | |
| | <u> </u> | Herb | | | <u> </u> |
| | | Herb | | | |
| | | Herb | | | |
| | <u>.</u> | TDM≃ | 100 | | |
| Salix nigra | FACW+ | Shrub/Sap | 1 | 50% | Yes |
| Populus deltoides | FAC | Shrub/Sap | 1 | 50% | Yes |
| | | Shrub/Sap | | | |
| | <u> </u> | Shrub/Sap | | | |
| | | Shrub/Sap | | | |
| <u>. </u> | | Shrub/Sap | | | |
| | | Shrub/Sap | | | |
| | | TDM= | 2 | | |
| | | Тгее | | | |
| | | Tree | | | |
| | | Tree | | | |
| | | Tree | | | - |
| | | Tree | | | ··· |
| | | Tree | | | |
| | | TDM= | 0 | | |
| | | Vine | | | |
| | | TDM= | 0 | | |

| Applicant/Owner: Everpower State: OH Sampling Point: SP39 |
|--|
| Landform (hillslope, terrace, etc.): swale Long: 83.66706 |
| Slope (%):12-18 |
| Soil Map Unit Name: Miami silt loam Are climatichydrologic conditions on the site typical for this time of year? Yes (if no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation Soil or Hydrology naturally problemate? (if needed, explain any answers in Remarks.) No SUMMARY FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present? Yes Wetland Hydrology Present? Yes Remarks: PEM Linear Wetland, non-isolated, 8 flags, Wetland Q 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: 2 > 0 = Pass Prevalence index = 2.10 Remarks: Hydrophytic plant cimmunity is present SOIL LR: M Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Color (molst) 3-5 10YR 3 / 2 10YR 5 / 6 30 Silty clay Si |
| Are climatic/hydrologic conditions on the site typical for this time of year? Yes (if no, explain in Remarks.) Are Vegetation |
| Are Vegetation |
| Are Vegetation |
| SUMMARY FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Is the Sampled Area within a Wetland? Yes Wetland Hydrology Present? Yes Wetland Remarks: PEM Linear Wetland, non-isolated, 8 flags, Wetland Q VEGETATION |
| Hydrophytic Vegetation Present? Yes |
| Hydric Soil Present? Yes Wetland Hydrology Present? Yes Wetland Hydrology Present? Yes Remarks: PEM Linear Wetland, non-isolated, 8 flags, Wetland Q 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: 2 > 0 = Pass Prevalence Index = 2.10 Remarks: Hydrophytic plant cimmunity is present SOIL LRR: M Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Color (moist) % Color (moist) % Type! Loc² Texture Remarks 0-3 10YR 3/2 100 silty clay silty clay soil colors mixed, disturbed 5-12 10YR 5/2 70 10YR 5/6 30 silty clay damp, not saturated Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: Indicators: Indicators for Problematic Hydric Soils?: Indicators in Remarks Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16) Coast Prairie Redox |
| Wetland Hydrology Present? Yes |
| Remarks: PEM Linear Wetland, non-isolated, 8 flags, Wetland Q 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: 2 > 0 = Pass Prevalence Index = 2.10 Remarks: Hydrophytic plant cimmunity is present SOIL LRR: M Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Color (moist) 3-5 10YR 3/2 100 3-5 10YR 3/2 100 10YR 5/6 30 Silty clay damp, not saturated Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. "Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Soils": Intellistic Epipedon (A2) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Histic Epipedon (A2) Straitfied Layers (A5) Straitfied Layers (A5) |
| 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: 2 > 0 = Pass Prevalence Index = 2.10 Remarks: Hydrophytic plant cimmunity is present SOIL LRR: M Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Redox Features |
| 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: 2 > 0 = Pass Prevalence Index = 2.10 Remarks: Hydrophytic plant cimmunity is present SOIL LRR: M Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Color (moist) % Color (moist) % Type! Loc² Texture Remarks 0-3 10YR 3 / 2 100 silty clay soil colors mixed, disturbed 5-12 10YR 5 / 2 70 10YR 5 / 6 30 silty clay damp, not saturated "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosoi (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Indicators for Problematic Hydric Soils*: Histosoi (A1) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Coast Prairie Redox (A55) Coast Prairie Redox (A16) Co |
| 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: 2 > 0 = Pass Prevalence Index = 2.10 Remarks: Hydrophytic plant cimmunity is present SOIL LRR: M Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Color (moist) % Color (moist) % Type! Loc² Texture Remarks 0-3 10YR 3 / 2 100 silty clay soil colors mixed, disturbed 5-12 10YR 5 / 2 70 10YR 5 / 6 30 silty clay damp, not saturated "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosoi (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Indicators for Problematic Hydric Soils*: Histosoi (A1) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Coast Prairie Redox (A55) Coast Prairie Redox (A16) Co |
| 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 cimmunity is present SOIL LRR: M Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) Remarks Color (moist) Remarks Soil colors mixed, disturbed Soil colors mixed Soil colors mixed, disturbed Soil colo |
| Prevalence Index = 2.10 Remarks: Hydrophytic plant cimmunity is present Color Matrix Redox Features Profile Describe to the depth needed to document the indicator or confirm the absence of indicators.) |
| Prevalence Index = 2.10 Remarks: Hydrophytic plant cimmunity is present SOIL LRR: M Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Color (moist) % Color (moist) % Type! Loc² Texture Remarks 0-3 10YR 3 / 2 100 silty clay soil colors mixed, disturbed 3-5 Soil Colors mixed, disturbed S |
| Remarks: Hydrophytic plant cimmunity is present SOIL |
| Color (moist) Color (moist |
| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features |
| Depth Matrix Redox Features |
| Color (moist) % Color (moist) % Type Loc2 Texture Remarks |
| 3-5 5-12 10YR 5 / 2 70 10YR 5 / 6 30 silty clay damp, not saturated Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Soil colors mixed, disturbed 30 Silty clay damp, not saturated *Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Soils3: Inon-Manganese Masses (F12) Other (Explain in Remarks) |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Coation: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F3) |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2Location: PL=Pore Lining, M=Matrix PL=Pore Lining, M=Matrix Coast Prairie Redox (A16) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Iron-Manganese Masses (F12) Other (Explain in Remarks) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F3) |
| Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Straiffied Layers (A5) Indicators for Problematic Hydric Soils ⁵ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Other (Explain in Remarks) Other (Explain in Remarks) |
| Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Straiffied Layers (A5) Indicators for Problematic Hydric Soils ⁵ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Other (Explain in Remarks) Other (Explain in Remarks) |
| Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Straiffied Layers (A5) Indicators for Problematic Hydric Soils ⁵ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Other (Explain in Remarks) Other (Explain in Remarks) |
| Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Black Histic (A3) Hydrogen Sulfide (A4) Straiffied Layers (A5) Indicators for Problematic Hydric Soils ⁵ : Coast Prairie Redox (A16) Iron-Manganese Masses (F12) Other (Explain in Remarks) Other (Explain in Remarks) |
| Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F3) |
| Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Hydrogen Sulfide (A4) Stripped Matrix (S6) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F3) |
| □ Black Histic (A3) □ Stripped Matrix (S6) □ Other (Explain in Remarks) □ Hydrogen Sulfide (A4) □ Loamy Mucky Mineral (F1) □ Stratified Layers (A5) □ Loamy Gleyed Matrix (F3) |
| ☐ Hydrogen Sulfide (A4)☐ Stratified Layers (A5)☐ Loamy Mucky Mineral (F1)☐ Loamy Gleyed Matrix (F3) |
| |
| I I 2 cm Muck (A10) IXI Depleted Matrix (F3) |
| |
| □ Depleted Below Dark Surface (A11) □ Redox Dark Surface (F6) □ Thick Dark Surface (A12) □ Depleted Dark Surface (F7) □ Indicators of hydrophytic vegetation and |
| Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present. |
| 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): |
| Type: Hydric Soil Present? Yes |
| Depth: (inches): Soil pit dug? Yes |
| Remarks: Hydric soil is present (if yes select one): 1" Probe |
| |

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OCTOBER 2007
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| | | 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) | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | ☐ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| Saturation (A3) | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | Presence of Reduced Iron (C4) | ☐ Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Aerial Imagery (B7) | Gauge or Well Data (D9) | |
| ☐ Sparsely Vegetated Concave Surface (B8) | Other (Explain in Remarks) | |
| Field Observations: | | |
| Surface Water Present? No Depth (In | ches): | |
| Water Table Present? No Depth (In | ches): | |
| Saturation Present? No Depth (In (includes capillary fringe) | ches): Wetland Hydrology Pr | resent? Yes |
| ☐ Recorded Data (Describe in Remarks): | | |
| ☐ Stream, Lake, or Tide Gauge☐ Aerial Photographs☐ Other | | |
| ⊠ No Recorded Data | | |
| Remarks: Two secondary indicators of hydrolog | y are present | |
| | | |
| | | |

HULL & ASSOCIATES, INC. DUBLIN, OHIO

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 | | | |
| | | TDM= | 100 | | |
| | | Shrub/Sap | | | |
| | | TDM= | 0 | | |
| | | Tree | | | |
| | | TDM= | 0 | | |
| | | Vine | | | |
| | | TDM= | 0 | | |

| Project/Sit | e: EVP010 Phase I | | | City/County: Chan | npaign Co. | Sampling D | ate: 10/13/11 |
|---|---|--|--|--|--|---|------------------------|
| Applicant/ | Owner: Everpower | | | State: OH | | Sampling P | oint: SP43 |
| Investigate | or(s): BMF | | | Section, Township | o, Range: : | | |
| Slope (%):0 Soil Map U Are climation Are Vegeta | hillslope, terrace, etc.): D-2 Lat: 40.08: nit Name: Brookston silt c/hydrologic conditions o tion , Soil , or Hyd tion , Soil , or Hyd | ty clay loam n the site ty Irology | rpical for this time of significantly disturbe | year? Yes (If no, e | Datum: WGS NWI classexplain in Remountances" p | assification: PEI narks.) resent? Yes | M1C |
| | Y FINDINGS – Attac | | | · · · · · · · · · · · · · · · · · · · | | • | |
| | | | <u> </u> | | • | , | |
| | c Vegetation Present? | Yes Yes | | Is the Sample within a Wetla | | | |
| Hydric Soil | ydrology Present? | Yes | | within a vveua | illur 165 | | |
| vvelianu m | yurology Fresent! | 165 | | | | | |
| Remarks: \ | Wetland T, ten flags, isol | ated | | | | | |
| VEGETA | ΓΙΟΝ | (US | SFWS Region No. | 1 - Northeast Sul | o-Region) | | |
| | See attac | ched sheet | for listing of plant | species and identifi | cation of don | ninant vegetation | on |
| Percent of | Dominant Species that a | are OBL, FA | CW or FAC: (exclud | ing FAC-) = 3/3 = 10 | 0 % | | |
| FAC Neutr | al Test: 3 > 0 = Pass | | | | | | |
| Prevalence | e Index = | | | | | | |
| Remarks: I | Hydrophytic plant commu | unity is pres | ent | | | | |
| SOIL | | | LRR: M | | | | |
| Profile Des | scription: (Describe to Matrix | the depth | | nt the indicator or co dox Features | onfirm the ab | sence of indica | ators.) |
| (Inches) | Color (moist) | % | Color (moist) | % Type ⁱ | | exture | Remarks |
| 0-6 6-12 | 2.5Y5 / 1 2.5Y4 / 1 | 80 90 | 2.5Y4 / 2 2.5Y5 / 2 | 10 | | SILT LOAM SILT LOAM | DAMP CONCENTRATIONS |
| 0-12 | 2.51471 | 90 | 2.51572 | 10 | , | SILI LOAW | CONCENTIATIONS |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Hydric Soi Histoso Histic E Black I Hydrog Stratific 2 cm M Deplete Thick E Sandy | concentration, D=Depleti I Indicators: I Indicators: I (A1) Epipedon (A2) Histic (A3) Gen Sulfide (A4) Ed Layers (A5) Muck (A10) Ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) | | Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed Depleted Mat | d Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F3) rix (F3) Surface (F6) k Surface (F7) | Ind | icators for Prol Coast Prairie R Iron-Manganes Other (Explain | se Masses (F12) |
| Restrictive | Layer (if observed): | | | | اللاما | Iric Soil Preser | nt? Yes |
| Type: Depth: (| inches): | | | | | iric Soli Preser I pit dug? | Yes |
| Remarks: | Hydric soil is present | | | | (if y | es select one): | 1" Probe |
| | | | | | | | |

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OCTOBER 2007
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| | | 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) | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | ☐ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| Saturation (A3) | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | ☑ Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | ☐ Presence of Reduced Iron (C4) | ☐ Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Aerial Imagery (B7) | Gauge or Well Data (D9) | |
| ☐ Sparsely Vegetated Concave Surface (B8) | Other (Explain in Remarks) | |
| Field Observations: | | |
| Surface Water Present? No Depth (In | ches): | |
| Water Table Present? No Depth (In | iches): | |
| Saturation Present? No Depth (Includes capillary fringe) | nches): Wetland Hydrology Pr | resent? Yes |
| ☐ Recorded Data (Describe in Remarks): | | |
| ☐ Stream, Lake, or Tide Gauge☐ Aerial Photographs☐ Other | | |
| | | |
| Remarks: Three secondary indicators of wetlan | d 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.

| 0050150 | INDICATOR | 077.47 | PLANT | % OF TDM | DOM: |
|-------------------------|-----------|-----------|----------|-------------|----------|
| SPECIES | STATUS | STRATUM | COVER | OF TDM | DOMINANT |
| Typha latifolia | OBL | Herb | 55 | 55% | Yes |
| Polygonum pensylvanicum | FACW | Herb | 30 | 30% | Yes |
| Cyperus esculentus | FACW | Herb | 3 | 3% | |
| Lactuca serriola | FAC- | Herb | 10 | 10% | |
| Echinochloa crusgalli | FACU | Herb | 1 | 1% | |
| Setaria faberi | UPL | Herb | 1 | 1% | |
| | | Herb | | | |
| | | TDM= | 100 | | |
| Acer saccharinum | FACW | Shrub/Sap | 10 | 100% | Yes |
| | | Shrub/Sap | | | |
| | | TDM= | 10 | | |
| | | Tree | | | |
| | | TDM= | 0 | | |
| | | Vine | <u> </u> | | |
| | | Vine | | | |
| | | Vine | | | |
| | | Vine | | | |
| | | TDM= | 0 | | |

| Project/Sit | e: EVP010 Phase I | | | City/County: Cham | paign Co. | Sampling D | ate: 10/13/11 |
|--|---|-----------------------------|--|---|------------------|---|--|
| Applicant/0 | Owner: Everpower | | | State: OH | | Sampling P | oint: SP44 |
| Investigato | or(s): BMF | | | Section, Township | , Range: : | | |
| ` | hillslope, terrace, etc.): | | | Local relief (d | | • | |
| Slope (%):0 | 0-2 Lat: 40.08 nit Name: Brookston silt | | Long: 83.60 | 11255 | Datum: WG | S 1984 classification: Nor | 20 |
| | c/hydrologic conditions o | , , | | vear? Yes (If no e | | | ie |
| | ition ☐, Soil ☐, or Hyd | - | | | | | |
| _ | ition ☐, Soil ☐, or Hyd | •• | • | | | • | |
| SUMMAR | Y FINDINGS – Attac | h site ma | p showing sampli | ing point locations | s, transec | ts, important fe | eatures, etc. |
| Hydrophytic | c Vegetation Present? | Yes | | Is the Sampled | l Area | | |
| Hydric Soil | _ | Yes | | within a Wetla | | es | |
| - | ydrology Present? | Yes | | | | | |
| | | | | | | | |
| Remarks: V | Wetland U, 5 flags, isolat | ed | | | | | |
| VECETAI | FION | /116 | SEWC Degion No. | 4. Nowthood Cub | Dominus | | |
| VEGETAT | | • | | 1 - Northeast Sub | | minant vogotatio | on |
| Percent of | Dominant Species that a | | | species and identific | | Jillilani vegetati | OII |
| | al Test: 1 > 0 = Pass | 0 0 2 2, | | g., | ,,, | | |
| Prevalence | | | | | | | |
| | Hydrophytic plant commi | ınity is nres | sent | | | | |
| rtemanto. 1 | Tydrophlytto plant commit | ariity io proc | JOHE | | | | |
| SOIL | | | I RR· M | | | | |
| SOIL Profile Des | scription: (Describe to | the depth | LRR: M needed to documen | nt the indicator or co | onfirm the a | absence of indica | ators.) |
| Profile Des Depth | Matrix | | needed to documer | dox Features | | | |
| Profile Des | | the depth % 85 | needed to documer | | Loc ² | Texture SILT LOAM | Remarks DAMP |
| Profile Des Depth (Inches) | Matrix Color (moist) | % | needed to documer Rec Color (moist) | dox Features | | Texture | Remarks |
| Profile Des Depth (Inches) 0-7 | Matrix Color (moist) 10YR 3 / 1 | % 85 | needed to documer Rec Color (moist) 10YR 4 / 4 | dox Features % Type¹ 15 | | Texture SILT LOAM | Remarks DAMP |
| Profile Des Depth (Inches) 0-7 | Matrix Color (moist) 10YR 3 / 1 | % 85 | needed to documer Rec Color (moist) 10YR 4 / 4 | dox Features % Type¹ 15 | | Texture SILT LOAM | Remarks DAMP |
| Profile Des Depth (Inches) 0-7 | Matrix Color (moist) 10YR 3 / 1 | % 85 | needed to documer Rec Color (moist) 10YR 4 / 4 | dox Features % Type¹ 15 | | Texture SILT LOAM | Remarks DAMP |
| Profile Des Depth (Inches) 0-7 7-12 | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 | % 85 95 | needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 | dox Features % Type¹ 15 5 | Loc ² | Texture SILT LOAM SILTY CLAY | Remarks DAMP DAMP |
| Profile Des Depth (Inches) 0-7 7-12 | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 concentration, D=Deplet | % 85 95 | needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 | dox Features % Type¹ 15 5 | Loc² | Texture SILT LOAM SILTY CLAY | Remarks DAMP DAMP PL=Pore Lining, M=Matrix |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 concentration, D=Deplet I Indicators: | % 85 95 | needed to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 | dox Features % Type¹ 15 5 covered or Coated Sal | Loc² | Texture SILT LOAM SILTY CLAY 2Location: Indicators for Prol | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils³: |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histosc Histosc Histosc | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 concentration, D=Deplet I Indicators: bl (A1) Epipedon (A2) | % 85 95 | reeded to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 educed Matrix, CS=C Sandy Gleyed Sandy Redox | dox Features % Type 15 5 Covered or Coated Sand Matrix (S4) (S5) | Loc² | Texture SILT LOAM SILTY CLAY 2Location: Indicators for Prol Coast Prairie R Iron-Manganes | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) Re Masses (F12) |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histosc Black H | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 concentration, D=Deplet I Indicators: bl (A1) Epipedon (A2) Histic (A3) | % 85 95 | reeded to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matr | dox Features % Type 15 5 Covered or Coated Sand Matrix (S4) (S5) ix (S6) | Loc² | Texture SILT LOAM SILTY CLAY 2Location: Indicators for Prol | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) Re Masses (F12) |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histosc Histic E Black H Hydrog | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) | % 85 95 | reeded to documer Ref Color (moist) 10YR 4 / 4 2.5Y5 / 3 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky | dox Features % Type 15 5 Covered or Coated Sand Matrix (S4) (S5) ix (S6) Mineral (F1) | Loc² | Texture SILT LOAM SILTY CLAY 2Location: Indicators for Prol Coast Prairie R Iron-Manganes | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) Re Masses (F12) |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histoso Histoso Histoso Stratifie Stratifie | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 concentration, D=Deplet I Indicators: bl (A1) Epipedon (A2) Histic (A3) | % 85 95 | reeded to documer Rec Color (moist) 10YR 4 / 4 2.5Y5 / 3 educed Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matr | dox Features % Type 15 5 Covered or Coated Sand Matrix (S4) (S5) ix (S6) Mineral (F1) d Matrix (F3) | Loc² | Texture SILT LOAM SILTY CLAY 2Location: Indicators for Prol Coast Prairie R Iron-Manganes | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) Re Masses (F12) |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histoso Histoso Hydrog Stratifie 2 cm M Deplete | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (| % 85 95 Son, RM=Re | reeded to documer Ref Color (moist) 10YR 4 / 4 2.5Y5 / 3 reduced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S | dox Features % Type 15 | nd Grains. | Texture SILT LOAM SILTY CLAY **Location: Indicators for Prol Coast Prairie Filter Iron-Manganes Other (Explain | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histosc Histosc Histosc Stratific 2 cm M Deplete Thick D | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) | % 85 95 Son, RM=Re | reeded to documer Ref Color (moist) 10YR 4 / 4 2.5Y5 / 3 reduced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | dox Features % Type 15 | nd Grains. | Texture SILT LOAM SILTY CLAY 2Location: dicators for Prol Coast Prairie F Iron-Manganes Other (Explain | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick D Sandy 5 cm M | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 | % 85 95 Son, RM=Re | reeded to documer Ref Color (moist) 10YR 4 / 4 2.5Y5 / 3 reduced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S | dox Features % Type 15 | nd Grains. | Texture SILT LOAM SILTY CLAY 2Location: dicators for Prol Coast Prairie F Iron-Manganes Other (Explain | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick D Sandy 5 cm M Restrictive | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 2.5Y3 / 1 2.5Y3 / 1 concentration, D=Deplet Indicators: D(A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) | % 85 95 Son, RM=Re | reeded to documer Ref Color (moist) 10YR 4 / 4 2.5Y5 / 3 reduced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | dox Features % Type 15 | nd Grains. | Texture SILT LOAM SILTY CLAY 2Location: dicators for Prol Coast Prairie F Iron-Manganes Other (Explain ndicators of hydrowetland hydrolog | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick D Sandy 5 cm M | Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 | % 85 95 Son, RM=Re | reeded to documer Ref Color (moist) 10YR 4 / 4 2.5Y5 / 3 reduced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | dox Features % Type 15 | nd Grains. | Texture SILT LOAM SILTY CLAY 2Location: dicators for Prol Coast Prairie F Iron-Manganes Other (Explain | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histoso Histoso Stratifie 2 cm M Deplete Sandy Stratifie Sandy Type: Depth: (| Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 | % 85 95 Son, RM=Re | reeded to documer Ref Color (moist) 10YR 4 / 4 2.5Y5 / 3 reduced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | dox Features % Type 15 | nd Grains. | Texture SILT LOAM SILTY CLAY | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils³: Redox (A16) are Masses (F12) in Remarks) phytic vegetation and gy must be present. at? Yes Yes |
| Profile Des Depth (Inches) 0-7 7-12 'Type: C=C Hydric Soi Histoso Histoso Stratifie 2 cm M Deplete Sandy Stratifie Sandy Type: Depth: (| Matrix Color (moist) 10YR 3 / 1 2.5Y3 / 1 | % 85 95 Son, RM=Re | reeded to documer Ref Color (moist) 10YR 4 / 4 2.5Y5 / 3 reduced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | dox Features % Type 15 | nd Grains. | Texture SILT LOAM SILTY CLAY 2Location: dicators for Prol Coast Prairie F Iron-Manganes Other (Explain andicators of hydrowetland hydrology ydric Soil Preseroil pit dug? | Remarks DAMP DAMP DAMP PL=Pore Lining, M=Matrix blematic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. at? Yes Yes |

HULL & ASSOCIATES, INC.
DUBLIN, OHIO

OCTOBER 2007
1000.300

| | | Sampling Date: 10/13/11 Sampling Point: SP44 |
|--|--|---|
| HYDROLOGY | | |
| Wetland Hydrology Indicators: | irad, chack all that apply) | Cocondan Indicators (minimum of tuo |
| Primary Indicators (minimum of one is requ | лгео. спеск ан шасарруу | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | ☐ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| Saturation (A3) | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | ☐ Presence of Reduced Iron (C4) | Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Aerial Imagery (E | Gauge or Well Data (D9) | |
| ☐ Sparsely Vegetated Concave Surface | (B8) | |
| Field Observations: | | |
| Surface Water Present? No Dep | th (Inches): | |
| Water Table Present? No Dep | th (Inches): | |
| Saturation Present? No (includes capillary fringe) | th (Inches): Wetland Hydrology Pr | resent? Yes |
| ☐ Recorded Data (Describe in Rema | rks): | |
| ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other | | |
| No Recorded Data | | |
| Remarks: Two secondary hydrologic indica | ators are present. | |
| | | |
| | | |

HULL & ASSOCIATES, INC. DUBLIN, OHIO

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

| | INDICATOR | | PLANT | % | |
|------------------------|-----------|-----------|-------|--------|----------|
| SPECIES | STATUS | STRATUM | 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 | | | |
| | | TDM= | 86 | | |
| Ulmus americana | FACW- | Shrub/Sap | 3 | 100% | No |
| | | Shrub/Sap | | | |
| | | TDM= | 3 | | |
| Fraxinus pennsylvanica | FACW | Tree | 1 | 100% | No |
| | | Tree | | | |
| | | TDM= | 1 | | |
| | | Vine | | | |
| | | TDM= | 0 | | |

| | te: EVP010 Phase I | | | City/County: Char | mpaign Co. | Sampling Da | ate: 10/13/11 |
|--|---|---------------|--|--|--|---|--|
| Applicant/ | Owner: Everpower | | | State: OH | | Sampling Po | oint: SP45 |
| Investigate | or(s): BMF | | | Section, Townshi | p, Range: : | | |
| ` | hillslope, terrace, etc.): | | | | | nvex, none): | |
| Slope (%):0 | | | Long: 83.60 |)437 [| Datum: WGS | | ••• |
| | Init Name: Wea silt loam c/hydrologic conditions o | | nical for this time of | year? Vac (If no | | classification: PEM | 11A |
| | ation ☐, Soil ☐, or Hyd | | | | | | |
| _ | ation \square , Soil \square , or Hyd | | - | | | | |
| | RY FINDINGS – Attac | <u> </u> | • • | · · · · · · · · · · · · · · · · · · · | • | • | atures, etc. |
| | | | <u> </u> | | | · • | • |
| | ic Vegetation Present? | Yes | | Is the Sample | | | |
| Hydric Soil | | Yes | | within a Wetla | and? Ye | S | |
| Wetland H | ydrology Present? | Yes | | | | | |
| Remarks: \ | Wetland V, isolated | | | JL | | | |
| | | | | | | | |
| VEGETA | TION | (US | FWS Region No. | 1 - Northeast Su | b-Region) | | |
| | | | | species and identif | | ominant vegetatio | n |
| Percent of | Dominant Species that a | re OBL, FA | CW or FAC: (exclud | ling FAC-) = 2/2 = 10 | 0 % | | |
| FAC Neutr | ral Test: 2 > 0 = Pass | | | | | | |
| Prevalence | e Index = | | | | | | |
| Remarks: I | Hydrophytic plant commi | unity is pres | ent | | | | |
| SOIL | | | LRR: M | | | | |
| | | | | | | | |
| | scription: (Describe to | the depth i | needed to documer | | onfirm the a | bsence of indicat | tors.) |
| Depth (Inches) | scription: (Describe to Matrix Color (moist) | the depth i | needed to documer | dox Features | onfirm the a | absence of indicat | tors.) |
| Depth | Matrix | | needed to documer Red | dox Features | | | |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer Red | dox Features | | Texture | |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer Red | dox Features | | Texture | |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer Red | dox Features | | Texture | |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer Red | dox Features | | Texture | |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi Histoso Histoso Hydrog Stratific 2 cm M | Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) | % 100 | educed Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat | Covered or Coated Sa d Matrix (S4) (S5) (x) (x) (x) (x) (x) (x) (x) (x) (x) (x | Loc² | Texture silty clay | Remarks PL=Pore Lining, M=Matrix Ilematic Hydric Soils ³ : edox (A16) e Masses (F12) |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi Histosc Histosc Stratific 2 cm M Deplete Thick I Sandy 5 cm M | Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) | % 100 | Reded to documer Red Color (moist) duced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S | Covered or Coated Sand Matrix (S4) (S5) (x) (y) (Mineral (F1) (d) (d) (d) (d) (d) (d) (e) (e | Loc² | Texture silty clay 2Location: P dicators for Prob Coast Prairie Re Iron-Manganese Other (Explain in | Remarks PL=Pore Lining, M=Matrix Ilematic Hydric Soils ³ : edox (A16) e Masses (F12) |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi Histosc Histosc Stratific 2 cm N Deplete Thick I Sandy 5 cm N Restrictive Type: | Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) e Layer (if observed): | % 100 | Reded to documer Red Color (moist) duced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | Covered or Coated Sand Matrix (S4) (S5) (x) (y) (Mineral (F1) (d) (d) (d) (d) (d) (d) (e) (e | Loc² Loc² In the second of t | Texture silty clay 2Location: Prodicators for Prob Coast Prairie Re Iron-Manganese Other (Explain in | Remarks PL=Pore Lining, M=Matrix slematic Hydric Soils ³ : edox (A16) e Masses (F12) n Remarks) Phytic vegetation and by must be present. |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi Histose Histose Stratifie 2 cm M Deplete Sandy 5 cm M Restrictive Type: Depth: (| Matrix Color (moist) 10YR 3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) E Layer (if observed): (inches): | % 100 | Reded to documer Red Color (moist) duced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | Covered or Coated Sand Matrix (S4) (S5) (x) (y) (Mineral (F1) (d) (d) (d) (d) (d) (d) (e) (e | Loc² Loc² And Grains. In | Texture silty clay 2Location: Prodicators for Prob Coast Prairie Re Iron-Manganese Other (Explain in | Remarks PL=Pore Lining, M=Matrix olematic Hydric Soils ³ : edox (A16) e Masses (F12) n Remarks) phytic vegetation and by must be present. t? Yes Yes |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi Histose Histose Stratifie 2 cm M Deplete Sandy 5 cm M Restrictive Type: Depth: (| Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) e Layer (if observed): | % 100 | Reded to documer Red Color (moist) duced Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | Covered or Coated Sand Matrix (S4) (S5) (x) (y) (Mineral (F1) (d) (d) (d) (d) (d) (d) (e) (e | Loc² Loc² And Grains. In | Texture silty clay 2Location: Prodicators for Prob Coast Prairie Re Iron-Manganese Other (Explain in | Remarks PL=Pore Lining, M=Matrix of the state of the sta |

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1000.300

| | | | 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) | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | | ☐ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| Saturation (A3) | | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | | ☐ Hydrogen Sulfide Odor (C1) | ☐ Crayfish Burrows (C8) |
| Sediment Deposits (B2) | | Oxidized Rhizospheres on Living Roots (C3) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | | ☐ Presence of Reduced Iron (C4) | Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Aerial Imag | jery (B7) | Gauge or Well Data (D9) | |
| ☐ Sparsely Vegetated Concave Su | rface (B8) | Other (Explain in Remarks) | |
| Field Observations: | | | |
| Surface Water Present? Yes | Depth (Inc | ches): 12" | |
| Water Table Present? Yes | Depth (Inc | ches): Surface | |
| Saturation Present? Yes (includes capillary fringe) | Depth (Inc | ches): Surface Wetland Hydrology Pr | resent? Yes |
| ☐ Recorded Data (Describe in I | Remarks): | | |
| ☐ Stream, Lake, or Tide Gar ☐ Aerial Photographs ☐ Other | uge | | |
| | | | |
| Remarks: Four primary and one sec | ondary indic | ator 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 Echinochloa muricata | FACW+ | Herb Herb | 35 30 | 35% 30% | Yes Yes |
| Leersia oryzoides | OBL | Herb | 10 | 10% | res |
| | OBL | | | 5% | |
| Schoenoplectus tabernaemontani | OBL | Herb | 5 | 5% | |
| Lemna minor | | Herb | 5 | | |
| Bidens cernua | OBL | Herb | 15 | 15% | |
| | | Herb | | | |
| | | Herb | | | |
| | | Herb | | | |
| | | Herb | 400 | | |
| | | TDM= | 100 | | |
| | | Shrub/Sap | | | |
| | | TDM= | 0 | | |
| | | Tree | | | |
| | | TDM= | 0 | | |
| | | Vine | | | |
| | | TDM= | 0 | 1 | |

| | | | | 1 | | | | |
|---|---|---------------|---|--|--------------------------|-------------|--|--|
| Project/Sit | e: EVP010 Phase II | | | City/Cou | nty: Cham | paign Co. | Sampling | Date: 10/17/11 |
| Applicant/ | Owner: Everpower | | | State: Ol | 1 | | Sampling | Point: SP46 |
| Investigate | or(s): BMF | | | Section, | Township | , Range: | | |
| Landform (| hillslope, terrace, etc.): | | | Lo | cal relief (c | oncave, c | onvex, none): CC | ONCAVE |
| Slope (%):0 | 0-2 Lat: 40.14 | 753 | Long: 83.62 | 0391 | E | Datum: WO | GS 1984 | |
| Soil Map U | nit Name: Brookston sil | ty clay loam | 1 | | | NW | I classification: P | EM1C |
| Are climation | c/hydrologic conditions o | n the site ty | pical for this time of | year? Yes | s (If no, e | xplain in F | Remarks.) | |
| Are Vegeta | ition 🔲, Soil 🔲, or Hyd | irology 🗌 | significantly disturbe | ed? Are "No | ormal Circu | ımstances | s" present? Yes | s |
| Are Vegeta | ition 🔲, Soil 🔲, or Hyd | drology 🔲 r | naturally problematic | ? (If neede | d, explain a | any answe | ers in Remarks).N | 10 |
| SUMMAR | Y FINDINGS – Attac | h site ma | p showing sampl | ina point | locations | . transe | cts. important | features, etc. |
| | | | | | e Sampled | | | |
| | c Vegetation Present? | Yes | | | - | | . | |
| Hydric Soil | | Yes | | Withi | n a Wetlar | 10? Y | 'es | |
| Wetland H | ydrology Present? | Yes | | | | | | |
| Remarks: I | In a pasture, low spot, co | oncave surfa | ace, isolated; Wetlan | d W, 6 flag | 3 | " | | |
| | | | | | | | | |
| VEGETA | TION | /119 | SFWS Region No. | 1 - North | east Sub | -Region | 1 | |
| VEGETA | *** | | for listing of plant | | | • | | ation |
| D | | | | | | | - Tommani Vegeta | |
| | Dominant Species that | are OBL, FA | ACVV or FAC: (exclud | ling FAC-) = | - 3/4 - 75 | 70 | | |
| FAC Neutr | al Test: 3 > 1 = Pass | | | | | | | |
| Prevalence | e Index = | | | | | | | |
| Remarks: I | Hydrophytic plant comm | unity is pres | sent | | | | | |
| SOIL | | | LRR: M | | | | | |
| | | | | | | | | |
| Profile Des | scription: (Describe to | the depth | needed to docume | | | nfirm the | absence of indi | icators.) |
| Depth | Matrix | | needed to docume | dox Feature | s | | | |
| Depth (Inches) | Matrix Color (moist) | % | needed to docume | | | nfirm the | absence of indi Texture silt loam | Remarks |
| Depth | Matrix | | needed to docume | dox Feature | s | | Texture | |
| Depth (Inches) | Matrix Color (moist) | % | needed to docume | dox Feature | s | | Texture | Remarks |
| Depth (Inches) | Matrix Color (moist) | % | needed to docume | dox Feature | s | | Texture | Remarks |
| Depth (Inches) | Matrix Color (moist) | % | needed to docume | dox Feature | s | | Texture | Remarks |
| Depth (Inches) | Matrix Color (moist) | % | needed to docume | dox Feature | s | | Texture | Remarks |
| Depth (Inches) | Matrix Color (moist) | % | needed to docume | dox Feature | s | | Texture | Remarks |
| Depth (Inches) 0-12 | Matrix Color (moist) 2.5Y3 / 1 | % 100 | needed to docume Re Color (moist) | dox Feature % | Type ¹ | - Loc² | Texture silt loam | Remarks |
| Depth (Inches) 0-12 | Matrix Color (moist) | % 100 | needed to docume Re Color (moist) | dox Feature % | Type ¹ | Loc² | Texture silt loam ² Location Indicators for Pr | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils ³ : |
| Depth (Inches) 0-12 | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet | % 100 | needed to docume Re Color (moist) educed Matrix, CS=0 Sandy Gleyed | dox Feature % % Covered or 0 d Matrix (S4 | Type' Type' Coated Sar | Loc² | Texture silt loam 2Location Indicators for Pr Coast Prairie | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils³: e Redox (A16) |
| Depth (Inches) 0-12 ¹Type: C=C Hydric Soi ☐ Histosi ☐ Histosi | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet Il Indicators: ol (A1) Epipedon (A2) | % 100 | reeded to document Record (moist) Color (moist) educed Matrix, CS=0 Sandy Gleyer Sandy Redox | dox Feature % Covered or 0 d Matrix (S4 | Type' Type' Coated Sar | Loc² | Texture silt loam 2Location Indicators for Pr Coast Prairie Iron-Mangan | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils³: e Redox (A16) lesse Masses (F12) |
| Depth (Inches) 0-12 ¹Type: C=0 Hydric Soi Histor Histor Black I | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet Il Indicators: ol (A1) Epipedon (A2) Histic (A3) | % 100 | educed Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matri | dox Feature % Covered or 0 d Matrix (S4 (S5) rix (S6) | Type' Coated Sar | Loc² | Texture silt loam 2Location Indicators for Pr Coast Prairie Iron-Mangan | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils³: e Redox (A16) |
| Depth (Inches) 0-12 ¹Type: C=C Hydric Soi ☐ Histose ☐ Histic I ☐ Black I ☐ Hydrog | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matri Loamy Mucky | dox Feature % Covered or (d Matrix (S4 (S5) rix (S6) y Mineral (F | Type' Coated Sar | Loc² | Texture silt loam 2Location Indicators for Pr Coast Prairie Iron-Mangan | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils³: e Redox (A16) lesse Masses (F12) |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi ☐ Histos ☐ Histic I ☐ Black I ☐ Hydrog ☐ Stratifi | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyer Loamy Gleyer | covered or (S4) (S5) rix (S6) y Mineral (F3) d Matrix (F3) | Type' Coated Sar | Loc² | Texture silt loam 2Location Indicators for Pr Coast Prairie Iron-Mangan | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils³: e Redox (A16) lesse Masses (F12) |
| Uppth (Inches) 0-12 'Type: C=C Hydric Soi Histosi Histosi Histosi Hydros Stratifi 2 cm M | Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix | covered or (S4) (S5) rix (S6) y Mineral (F3) trix (F3) | Type' Coated Sar | Loc² | Texture silt loam 2Location Indicators for Pr Coast Prairie Iron-Mangan | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils³: e Redox (A16) lesse Masses (F12) |
| Type: C=0 Hydric Soi Histos Histos Hydrog Stratifi 2 cm M Deplet | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matri Loamy Mucky Loamy Gleyer Loamy Gleyer | covered or (S) d Matrix (S4 (S5) rix (S6) y Mineral (F) d Matrix (F3) Surface (F6) | Coated Sar | Loc² | Texture silt loam 2Location Indicators for Pr Coast Prairie Iron-Mangan Other (Explai | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils³: e Redox (A16) lesse Masses (F12) |
| Depth (Inches) 0-12 'Type: C=0 Hydric Soi Histos Histos Hydrog Stratifi □ 2 cm M □ Deplet ⊠ Thick II □ Sandy | Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix Redox Dark S | covered or (S4 (S5) rix (S6) y Mineral (F3) Surface (F6 k Surface (F6 | Coated Sar | Loc² | Texture silt loam ²Location Indicators for Pr ☐ Coast Prairie ☐ Iron-Mangan ☐ Other (Expla | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils³: e Redox (A16) lese Masses (F12) in in Remarks) |
| Depth (Inches) 0-12 'Type: C=0 Hydric Soi Histor Hydrog Stratifi □ 2 cm N □ Deplet ⊠ Thick I □ Sandy □ 5 cm N | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) //uck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) //ucky Peat or Peat (S3) | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix Redox Dark S Depleted Dar | covered or (S4 (S5) rix (S6) y Mineral (F3) Surface (F6 k Surface (F6 | Coated Sar | Loc² | Texture silt loam ²Location Indicators for Pr ☐ Coast Prairie ☐ Iron-Mangan ☐ Other (Expla | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils³: e Redox (A16) lesse Masses (F12) in in Remarks) |
| Depth (Inches) 0-12 'Type: C=0 Hydric Soi Histor Hydrog Stratifi □ 2 cm N □ Deplet ⊠ Thick I □ Sandy □ 5 cm N Restrictive | Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix Redox Dark S Depleted Dar | covered or (S4) d Matrix (S4) (S5) rix (S6) y Mineral (F3) Surface (F6) k Surface (F6) | Coated Sar | Loc² | Texture silt loam ²Location Indicators for Pr ☐ Coast Prairie ☐ Iron-Mangan ☐ Other (Expla | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils ³ : e Redox (A16) lese Masses (F12) in in Remarks) drophytic vegetation and ology must be present. |
| Depth (Inches) 0-12 'Type: C=0 Hydric Soi Histos: Histic I Black I Hydros Stratifi 2 cm in Deplet Sandy 5 cm in Restrictive Type: | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) //uck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) //ucky Peat or Peat (S3) | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix Redox Dark S Depleted Dar | covered or (S4) d Matrix (S4) (S5) rix (S6) y Mineral (F3) Surface (F6) k Surface (F6) | Coated Sar | Loc² | ²Location ²Location Indicators for Pr Coast Prairie Iron-Mangan Other (Explain | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils ³ : e Redox (A16) lese Masses (F12) in in Remarks) drophytic vegetation and ology must be present. |
| Depth (Inches) 0-12 'Type: C=0 Hydric Soi Histos Histos Hydros Stratifi 2 cm ii Deplet Sandy 5 cm ii Restrictive Type: Depth: | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) e Layer (if observed): | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix Redox Dark S Depleted Dar | covered or (S4) d Matrix (S4) (S5) rix (S6) y Mineral (F3) Surface (F6) k Surface (F6) | Coated Sar | Loc² | Texture silt loam *Location Indicators for Pr Coast Prairie Iron-Mangan Other (Explain *Indicators of hydrowetland hydro | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils ³ : e Redox (A16) lesse Masses (F12) in in Remarks) drophytic vegetation and blogy must be present. ent? Yes Yes |
| Depth (Inches) 0-12 'Type: C=0 Hydric Soi Histos Histos Hydros Stratifi 2 cm ii Deplet Sandy 5 cm ii Restrictive Type: Depth: | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface of Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) e Layer (if observed): (inches): | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix Redox Dark S Depleted Dar | covered or (S4) d Matrix (S4) (S5) rix (S6) y Mineral (F3) Surface (F6) k Surface (F6) | Coated Sar | Loc² | Texture silt loam *Location Indicators for Pr Coast Prairie Iron-Mangan Other (Explain *Indicators of hydromethydric Soil Pres Soil pit dug? | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils ³ : e Redox (A16) lesse Masses (F12) in in Remarks) drophytic vegetation and blogy must be present. ent? Yes Yes |
| Depth (Inches) 0-12 'Type: C=0 Hydric Soi Histos Histos Hydros Stratifi 2 cm ii Deplet Sandy 5 cm ii Restrictive Type: Depth: | Matrix Color (moist) 2.5Y3 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface of Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) e Layer (if observed): (inches): | % 100 | educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky Loamy Gleyer Depleted Matrix Redox Dark S Depleted Dar | covered or (S4) d Matrix (S4) (S5) rix (S6) y Mineral (F3) Surface (F6) k Surface (F6) | Coated Sar | Loc² | Texture silt loam *Location Indicators for Pr Coast Prairie Iron-Mangan Other (Explain *Indicators of hydromethydric Soil Pres Soil pit dug? | Remarks damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils ³ : e Redox (A16) lesse Masses (F12) in in Remarks) drophytic vegetation and blogy must be present. ent? Yes Yes |

| | | PAGE 2 |
|---|--|--|
| | , | Sampling Date: 10/17/11 Sampling Point: SP46 |
| LIVERGLOOV | | - Carriering Common Com |
| HYDROLOGY Wetland Hydrology Indicators: | | |
| Primary Indicators (minimum of one is required | l: check all that apply) | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| ☐ Saturation (A3) | ☐ True Aquatic Plants (B14) | Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | Presence of Reduced Iron (C4) | ☐ Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Aerial Imagery (B7) | Gauge or Well Data (D9) | |
| ☐ Sparsely Vegetated Concave Surface (B8) | Other (Explain in Remarks) | |
| Field Observations: | | |
| Surface Water Present? No Depth (I | nches): | |
| Water Table Present? No Depth (I | nches): | |
| Saturation Present? No Depth (I (includes capillary fringe) | nches): Wetland Hydrology P | resent? Yes |
| Recorded Data (Describe in Remarks | : | |
| ☐ Stream, Lake, or Tide Gauge | | |
| ☐ Aerial Photographs ☐ Other | | |
| ☑ No Recorded Data | | |
| Remarks: Three secondary hydrologic indicate | rs 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.

| epecies. | INDICATOR | STRATUM | PLANT | % OF TDM | DOMINANT |
|---------------------------|-----------|-----------|---------|--|--------------|
| SPECIES | STATUS | | | | |
| Eleocharis obtusa | OBL | Herb | 15 | 25% | Yes |
| Bidens cernua | OBL | Herb | 15 | 25% | Yes |
| Polygonum hydropiperoides | OBL | Herb | 15 | 25% | Yes |
| Echinochloa crusgalli | FĄCU | Herb | 15 | 25% | Yes |
| | **** | Herb | | | |
| | | Herb | | | |
| · | | Herb | | | - |
| | | Herb | | - | |
| | | Herb | | - | |
| | | Herb | | | |
| | | TDM= | 60 | | <u></u> |
| | , | Shrub/Sap | | | . |
| | <u>.</u> | Shrub/Sap | | | |
| | w-v- | Shrub/Sap | | | |
| | | Shrub/Sap | | | |
| | | Shrub/Sap | | | |
| | 11.9 | Shrub/Sap | | | |
| | | Shrub/Sap | 230,001 | | |
| | | Shrub/Sap | | | |
| | | Shrub/Sap | | | |
| | | Shrub/Sap | | | |
| | | TDM≔ | 0 | | |
| | | Tree | | | |
| , | | Tree | | | |
| | | Tree | | | |
| 7 | | TDM= | 0 | | |
| | | Vine | | | |
| .,,, | | Vine | | | |
| | | Vine | | | |
| | | Vine | | | |
| | | TDM= | 0 . | <u> </u> | + |

| Project/Sit | EVD040 Db U | | | 0:4-40 | | | | D-4 40/00/44 |
|---|--|------------------------------|--|--|---------------|------------|---|--|
| | te: EVP010 Phase II | | | - | nty: Cham | paign Co. | ' ' | Date: 10/20/11 |
| | Owner: Everpower | | | State: OF | | Danger | , , , | Point: SP57 |
| Investigate | | | | | Township | | | |
| | hillslope, terrace, etc.): | 0007 | L am 02 G | - 1 | cal relief (c | • | onvex, none): | |
| Slope (%): | | | Long: 83.6 | 24228 | | Datum: W | I classification: N | lono |
| | nit Name: Brookston sil c/hydrologic conditions o | • | | voar? Vos | (If no e | l | | one |
| | ation, Soil, or Hyd | • | • | | • | | • | |
| _ | ation ☐, Soil ☐, or Hyd | | - | | | | | |
| <u></u> | Y FINDINGS - Attac | | | | | | | |
| | c Vegetation Present? | Yes | | | Sampled | | | , |
| Hydric Soil | • | Yes | | - 1 | n a Wetlar | | es | |
|] | | | | With | ii a vyeuai | iu: | es es | |
| vvetiand H | ydrology Present? | Yes | | | | | | |
| Remarks: \ | Wetland FF, adjacent, 2 | 2 flags | | | | | | |
| VEGETA | TION | (US | SFWS Region No. | 1 - North | east Sub | -Region) |) | |
| | See atta | ched sheet | for listing of plant | species an | d identific | ation of d | lominant vegeta | tion |
| Percent of | Dominant Species that | are OBL, FA | CW or FAC: (exclud | ing FAC-) = | 2/2 = 100 | % | | |
| FAC Neutr | al Test: 1 > 0 = Pass | | | | | | | |
| Prevalence | e Index = | | | | | | | |
| Remarks: I | Hydrophytic plant comm | unity is pres | ent | | | | | |
| SOIL | | | LRR: M | | | | | |
| | | | | | | | | |
| Profile Des | scription: (Describe to | the depth | | nt the indic | ator or co | nfirm the | absence of indi | cators.) |
| Depth | Matrix | | needed to documer Rec | dox Feature | s | | | |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer | | | nfirm the | Texture | cators.) Remarks |
| Depth | Matrix | | needed to documer Rec | dox Feature | s | | | |
| Depth (Inches) 0-6 | Matrix Color (moist) 2.5Y3 / 1 | % 100 | needed to documer Red Color (moist) | dox Feature % | s | | Texture silty clay | Remarks Matrix color: 5Y 3/1; |
| Depth (Inches) 0-6 | Matrix Color (moist) 2.5Y3 / 1 | % 100 | needed to documer Red Color (moist) | dox Feature % | s | | Texture silty clay | Remarks Matrix color: 5Y 3/1; |
| Depth (Inches) 0-6 | Matrix Color (moist) 2.5Y3 / 1 | % 100 | needed to documer Red Color (moist) | dox Feature % | s | | Texture silty clay | Remarks Matrix color: 5Y 3/1; |
| Depth (Inches) 0-6 | Matrix Color (moist) 2.5Y3 / 1 | % 100 | needed to documer Red Color (moist) | dox Feature % | s | | Texture silty clay | Remarks Matrix color: 5Y 3/1; |
| Depth (Inches) 0-6 6-12 'Type: C=C Hydric Soi Histosc Histosc Hydrog Stratific 2 cm M | Matrix Color (moist) 2.5Y3 / 1 3 / 1 3 / 1 Concentration, D=Deplet I Indicators: oi (A1) Epipedon (A2) distic (A3) gen Sulfide (A4) ed Layers (A5) fuck (A10) | % 100 90 ion, RM=Re | needed to documer Rec Color (moist) 10YR 5 / 6 aduced Matrix, CS=C Sandy Gleyec Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyec Depleted Matrix | dox Feature % 10 10 downered or C d Matrix (S4 (S5) ix (S6) / Mineral (F- d Matrix (F3) | Coated Sar | Loc² | Texture silty clay silty clay ²Location ndicators for Pr Coast Prairie Iron-Mangan | Remarks Matrix color: 5Y 3/1; |
| Depth (Inches) 0-6 6-12 'Type: C=C Hydric Soi Histic E Black I Hydrog Stratific 2 cm N Deplete Thick E Sandy Sandy 5 cm N | Matrix Color (moist) 2.5Y3 / 1 3 / 1 3 / 1 Concentration, D=Deplet I Indicators: of (A1) Epipedon (A2) Histic (A3) Jen Sulfide (A4) Jed Layers (A5) Muck (A10) Jed Below Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) | % 100 90 ion, RM=Re | needed to documer Rec Color (moist) 10YR 5 / 6 duced Matrix, CS=C Sandy Gleyec Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyec | dox Feature % 10 10 downward or Code Matrix (S4 (S5) ix (S6) downward Matrix (F3) for (F3) for (F3) for (F6) for Surface (F6) for Surface (F6) | Coated Sar | Loc² | Texture silty clay silty clay **Location ndicators for Pr Coast Prairie Iron-Mangan Other (Expla | Remarks Matrix color: 5Y 3/1; damp : PL=Pore Lining, M=Matrix roblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) |
| Depth (Inches) 0-6 6-12 'Type: C=C Hydric Soi Histic E Black F Hydrog Stratific 2 cm M Deplete Thick E Sandy 5 cm M Restrictive Type: Depth: (| Matrix Color (moist) 2.5Y3 / 1 3 / 1 3 / 1 Concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) get Layers (A5) fluck (A10) ed Below Dark Surface (A12) Mucky Mineral (S1) flucky Peat or Peat (S3) et Layer (if observed): | % 100 90 ion, RM=Re | needed to documer Rec Color (moist) 10YR 5 / 6 aduced Matrix, CS=C Sandy Gleyect Sandy Redox Stripped Matrice Loamy Mucky Loamy Gleyect Depleted Mate Redox Dark S Depleted Dari | dox Feature % 10 10 downward or Code Matrix (S4 (S5) ix (S6) downward Matrix (F3) for (F3) for (F3) for (F6) for Surface (F6) for Surface (F6) | Coated Sar | Loc² | Texture silty clay silty clay **Location ndicators for Pr Coast Prairie Iron-Mangan Other (Expla | Remarks Matrix color: 5Y 3/1; damp PL=Pore Lining, M=Matrix coblematic Hydric Soils ³ : Redox (A16) ese Masses (F12) in in Remarks) Irophytic vegetation and logy must be present. |

| | | 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) |
| Surface Water (A1) | ☐ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | Aquatic Fauna (B13) | ☑ Drainage Patterns (B10) |
| Saturation (A3) | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | ☐ Presence of Reduced Iron (C4) | Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Aerial Imagery (B7) | Gauge or Well Data (D9) | |
| ☐ Sparsely Vegetated Concave Surface (B8) | Other (Explain in Remarks) | |
| Field Observations: | | |
| Surface Water Present? No Depth (Ir | nches): | |
| Water Table Present? No Depth (Ir | nches): | |
| Saturation Present? No Depth (Ir (includes capillary fringe) | ches): Wetland Hydrology P | resent? Yes |
| ☐ Recorded Data (Describe in Remarks) ☐ Stream, Lake, or Tide Gauge | | |
| Aerial Photographs Other | | |
| ☑ No Recorded Data | | |
| Remarks: Two secondary indicators of hydrolog | gy 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 | | | |
| | | TDM= | 100 | | |
| Populus deltoides | FAC | Shrub/Sap | 5 | 100% | Yes |
| <u></u> | | Shrub/Sap | | | |
| | | Shrub/Sap | | | |
| | | Shrub/Sap_ | | | |
| | | Shrub/Sap | | | |
| | | Shrub/Sap | | | |
| | | Shrub/Sap | | | |
| | | Shrub/Sap | | | - |
| | | Shrub/Sap | | | |
| | | Shrub/Sap | | | <u> </u> |
| • | | TDM= | 5 | | |
| | | Tree | | | |
| | | Tree | | | |
| | | Tree | | | |
| | | | | | |
| | | Tree | | | |
| | | Tree | | | |
| | | Tree | | | |
| | | Tree | | | |
| | _, | Tree | | - | |
| | | Tree | | | |
| | | Tree | | - | |
| | ······································ | TDM= | 0 | - | |
| | | Vine | | | |
| | | Vine | - | <u> </u> | |
| | | Vine | | | |
| | | Vine | | ļ | |
| | | TDM= | 0 | | |

| Project/Sit | te: EVP010 Phase I | | | City/Cour | nty: Champaign | Co. | Sampling Da | ate: 10/20/11 |
|---|--|--------------|---|---|---|--|--|--|
| Applicant/ | Owner: Everpower | | | State: OF | I | | Sampling Po | oint: SP58 |
| Investigate | or(s): BMF | | | Section, | Township, Ran | ge: : | | |
| , | hillslope, terrace, etc.): | | | | cal relief (concav | | * | |
| Slope (%):2 | | | Long: 83.62 | 9194 | | WGS 1 | | - |
| | nit Name: Brookston silichting och bette b | | oical for this time of | vear? Yes | | | issification: Non arks) | ie |
| | ation \square , Soil \square , or Hyd | | | - | | | | |
| _ | ation □, Soil □, or Hyd | | - | | | | | |
| SUMMAR | Y FINDINGS – Attac | h site map | showing sampli | ing point l | ocations, trar | sects, | important fe | eatures, etc. |
| Hydronhyti | c Vegetation Present? | Yes | | le the | Sampled Area | | | |
| Hydric Soil | _ | Yes | | | n a Wetland? | Yes | | |
| - | | | | Within | i a vvelialiu: | 165 | | |
| vvelianu n | ydrology Present? | Yes | | | | | | |
| Remarks: I | Linear wetland ditch; We | tland GG, 25 | flagsHydrophytic p | lant commu | inity is present | | | |
| VEGETA | TION | (US | FWS Region No. | 1 - North | east Sub-Reg | ion) | | |
| | See atta | ched sheet f | for listing of plant | species an | d identification | of domi | inant vegetatio | on |
| Percent of | Dominant Species that a | are OBL, FAC | CW or FAC: (exclud | ing FAC-) = | 3/3 = 100 % | | | |
| FAC Neutr | al Test: 3 > 0 = Pass | | | | | | | |
| Prevalence | e Index = | | | | | | | |
| Remarks: | | | | | | | | |
| SOIL | | | LRR: M | | | | | |
| | | | LKK. W | | | | | |
| | scription: (Describe to | the depth n | eeded to documer | | | the abs | sence of indica | ators.) |
| Profile Des Depth (Inches) | scription: (Describe to Matrix Color (moist) | the depth n | eeded to documer | nt the indicators Feature % | s | | sence of indica | Remarks |
| Depth | Matrix | | needed to documer Red | dox Feature | S | c² Te | | |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer Red | dox Feature | s | c² Te | exture | Remarks Matrix color: 5Y 4/1; |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer Red | dox Feature | s | c² Te | exture | Remarks Matrix color: 5Y 4/1; |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer Red | dox Feature | s | c² Te | exture | Remarks Matrix color: 5Y 4/1; |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer Red | dox Feature | s | c² Te | exture | Remarks Matrix color: 5Y 4/1; |
| Depth (Inches) | Matrix Color (moist) | % | needed to documer Red | dox Feature | s | c² Te | exture | Remarks Matrix color: 5Y 4/1; |
| Type: C=C Histosc Histosc Hydrog Stratific 2 cm M | Matrix Color (moist) 4 / 1 Concentration, D=Deplet Il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) | % 100 | duced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed Depleted Matr | dox Feature % Sovered or C d Matrix (S4 (S5) ix (S6) Mineral (F- d Matrix (F3 rix (F3) | Type¹ Loc Type¹ Loc Coated Sand Gra 1) | ins. | exture ilt loam *Location: F cators for Prob Coast Prairie R | Remarks Matrix color: 5Y 4/1; redox on roots PL=Pore Lining, M=Matrix plematic Hydric Soils ³ : tedox (A16) te Masses (F12) |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi Histore Histore Stratific 2 cm M Deplete Thick I Sandy 5 cm M | Matrix Color (moist) 4 / 1 Concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) | % 100 | duced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed | dox Feature % Sovered or C d Matrix (S4 (S5) ix (S6) Mineral (F- d Matrix (F3) Surface (F6) k Surface (F6) | Type¹ Loc Type¹ Loc Coated Sand Gra 1) | ins. | ² Location: F cators for Prob Coast Prairie R Iron-Manganes Other (Explain i | Remarks Matrix color: 5Y 4/1; redox on roots PL=Pore Lining, M=Matrix plematic Hydric Soils ³ : tedox (A16) te Masses (F12) |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi Histore Histore Stratific 2 cm M Deplete Thick I Sandy 5 cm M | Matrix Color (moist) 4 / 1 Concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) | % 100 | duced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed Depleted Mat Redox Dark S Depleted Darl | dox Feature % Sovered or C d Matrix (S4 (S5) ix (S6) Mineral (F- d Matrix (F3) Surface (F6) k Surface (F6) | Type¹ Loc Type¹ Loc Coated Sand Gra 1) | ins. India January | ² Location: F cators for Prob Coast Prairie R Iron-Manganes Other (Explain i | Remarks Matrix color: 5Y 4/1; redox on roots PL=Pore Lining, M=Matrix clematic Hydric Soils ³ : Redox (A16) Re Masses (F12) In Remarks) Aphytic vegetation and gy must be present. |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick I Sandy 5 cm M Restrictive Type: | Matrix Color (moist) 4 / 1 Concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) | % 100 | duced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed Depleted Mat Redox Dark S Depleted Darl | dox Feature % Sovered or C d Matrix (S4 (S5) ix (S6) Mineral (F- d Matrix (F3) Surface (F6) k Surface (F6) | Type¹ Loc Type¹ Loc Coated Sand Gra 1) | ins. India January January January January Hydr | ² Location: Factors for Prob Coast Prairie R Iron-Manganes: Other (Explain in its actors of hydrowetland hydrologon) | Remarks Matrix color: 5Y 4/1; redox on roots PL=Pore Lining, M=Matrix clematic Hydric Soils ³ : Redox (A16) Re Masses (F12) In Remarks) Aphytic vegetation and gy must be present. |
| Depth (Inches) 0-12 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Sandy 5 cm M Restrictive Type: Depth: (| Color (moist) 4 / 1 Concentration, D=Deplet il Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ged Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) E Layer (if observed): | % 100 | duced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyed Depleted Mat Redox Dark S Depleted Darl | dox Feature % Sovered or C d Matrix (S4 (S5) ix (S6) Mineral (F- d Matrix (F3) Surface (F6) k Surface (F6) | Type¹ Loc Type¹ Loc Coated Sand Gra 1) | ins. India India Hydr Soil | ² Location: Fcators for Prob Coast Prairie R Iron-Manganes Other (Explain i | Remarks Matrix color: 5Y 4/1; redox on roots PL=Pore Lining, M=Matrix plematic Hydric Soils ³ : tedox (A16) te Masses (F12) in Remarks) phytic vegetation and gy must be present. tt? Yes Yes |

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DUBLIN, OHIO

OCTOBER 2007
1000.300

| | | | | PAGE 2 |
|--|------------|--------------|--|--|
| | | | | Sampling Date: 10/20/11 |
| | | | | Sampling Point: SP58 |
| HYDROLOGY Wetland Hydrology Indica | 4000 | | | · · |
| Primary Indicators (minimul | | s required: | check all that apply) | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | | | ☐ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| High Water Table (A2) | | | Aquatic Fauna (B13) | ☑ Drainage Patterns (B10) |
| ⊠ Saturation (A3) | | | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| ☐ Water Marks (B1) | | | ☐ Hydrogen Sulfide Odor (C1) | ☐ Crayfish Burrows (C8) |
| Sediment Deposits (B2) |) | | Oxidized Rhizospheres on Living Roots (C3) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | | | Presence of Reduced Iron (C4) | Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | | | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | | | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Ae | erial Imag | ery (B7) | Gauge or Well Data (D9) | |
| Sparsely Vegetated Cor | ncave Sui | rface (B8) | Other (Explain in Remarks) | |
| Field Observations: | | | | |
| Surface Water Present? | No | Depth (Inc | hes): | |
| Water Table Present? | No | Depth (Inc | hes): | |
| Saturation Present? (includes capillary fringe) | Yes | Depth (Inc | hes): surface Wetland Hydrology Pr | esent? Yes |
| Recorded Data (Desc | cribe in F | Remarks): | | |
| ☐ Stream, Lake, or☐ Aerial Photograph☐ Other | | ıge | | |
| No Recorded Data | | | | |
| Remarks: One primary and | two seco | ndary indica | ators 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.

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

| Project/Sit | e: EVP010 Phase I | | | City/Cou | nty: Cham | paign Co |) . | Sampling D | ate: 12/13/11 |
|--|--|-----------------------------|---|---|--|-----------|--|--|--|
| Applicant/0 | Owner: Everpower | | | State: Ol | 4 | | j | Sampling Po | oint: SP62 |
| Investigato | or(s): BMF/KMH | | | Section, | Township | , Range: | : | | |
| | hillslope, terrace, etc.): d | | | l | | | | k, none): cond | cave |
| Slope (%):2 | | | Long: 83.90 |)422 | Da | atum: WO | | | 144.4 |
| | nit Name: Miami silt loar c/hydrologic conditions o | | unical for this time of | vear? Ve | e (If no e | | | sification: PEN | WIA |
| | tion ☐, Soil ☐, or Hyd | - | | - | | | | | |
| _ | ition □, Soil □, or Hyd | • • | • | | | | | | |
| | <u> </u> | | | | · · | | | | |
| SUMMAR | Y FINDINGS – Attac | n site ma | p snowing sampi | ing point | iocations | s, transe | ects, i | mportant re | eatures, etc. |
| Hydrophyti | c Vegetation Present? | Yes | | Is the | e Sampled | l Area | | | |
| Hydric Soil | Present? | Yes | | withi | in a Wetlar | nd? | Yes | | |
| Wetland Hy | ydrology Present? | Yes | | | | | | | |
| Remarks: V | Wetland JJ, non-isolated | NWI emer | gent wetland, 12 flag | S | | | | | |
| | | | | | | | | | |
| VEGETAT | ΓΙΟΝ | (US | SFWS Region No. | . 1 - North | east Sub | -Regio | ո) | | |
| | See attac | ched sheet | for listing of plant | species an | d identific | ation of | domin | ant vegetation | on |
| Percent of | Dominant Species that a | re OBL, FA | ACW or FAC: (exclud | ling FAC-) = | = 5/5 = 100 | % | | | |
| FAC Neutra | al Test: 3 > 0 = Pass | | | | | | | | |
| Prevalence | e Index = | | | | | | | | |
| Remarks: I | Hydrophytic plant commu | unity is pres | ent | | | | | | |
| | | | | | | | | | |
| SOIL | | | LRR: M | | | | | | |
| Profile Des | scription: (Describe to | the depth | needed to documer | | | nfirm th | e abse | nce of indica | ators.) |
| | scription: (Describe to Matrix Color (moist) | the depth | needed to documer | nt the indic | | nfirm th | | nce of indica | ators.) Remarks |
| Profile Des Depth (Inches) 0-1 | Matrix Color (moist) 10YR 2 / 1 | % 100 | needed to documer Rec Color (moist) | dox Feature % | Type ^t | Loc² | Tex | ture anic | Remarks |
| Profile Des Depth (Inches) | Matrix Color (moist) | % | needed to documer Rec | dox Feature | es | | Tex | ture | |
| Profile Des Depth (Inches) 0-1 | Matrix Color (moist) 10YR 2 / 1 | % 100 | needed to documer Rec Color (moist) | dox Feature % | Type ^t | Loc² | Tex | ture anic | Remarks |
| Profile Des Depth (Inches) 0-1 | Matrix Color (moist) 10YR 2 / 1 | % 100 | needed to documer Rec Color (moist) | dox Feature % | Type ^t | Loc² | Tex | ture anic | Remarks |
| Profile Des Depth (Inches) 0-1 | Matrix Color (moist) 10YR 2 / 1 | % 100 | needed to documer Rec Color (moist) | dox Feature % | Type ^t | Loc² | Tex | ture anic | Remarks |
| Profile Des Depth (Inches) 0-1 1-10 | Matrix Color (moist) 10YR 2/1 10YR 4/1 | % 100 90 | needed to documer Rec Color (moist) 7.5YR 5 / 6 | dox Feature % 10 | Type ¹ C | Loc² | Tex org silt | ture anic y clay | Remarks saturated |
| Profile Des Depth (Inches) 0-1 1-10 | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 oncentration, D=Depleti | % 100 90 | needed to documer Rec Color (moist) 7.5YR 5 / 6 | dox Feature % 10 | Type ¹ C | Loc² | Tex org silt | ture anic y clay ²Location: I | Remarks saturated PL=Pore Lining, M=Matrix |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 oncentration, D=Depleti | % 100 90 | needed to documer Rec Color (moist) 7.5YR 5 / 6 educed Matrix, CS=C | dox Feature % 10 Covered or 0 | Type¹ C C Coated Sar | Loc² | Tex org silt | ture anic y clay ² Location: I | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histosc Histosc Histosc | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 concentration, D=Depleti I Indicators: bl (A1) Epipedon (A2) | % 100 90 | reeded to documer Rec Color (moist) 7.5YR 5 / 6 educed Matrix, CS=C Sandy Gleyed Sandy Redox | dox Feature % 10 20 Covered or (3 d Matrix (S4 (S5) | Type¹ C C Coated Sar | Loc² | Tex org silt | ture anic y clay 2Location: I ators for Protoast Prairie Ron-Manganes | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histosc Black H | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 concentration, D=Depleti I Indicators: bl (A1) Epipedon (A2) Histic (A3) | % 100 90 | reeded to documer Rec Color (moist) 7.5YR 5 / 6 column 6 advantage of the column 7 Sandy Gleyer Sandy Redox Stripped Matrix | dox Feature % 10 20 Covered or 0 d Matrix (S4 (S5) rix (S6) | Type¹ C Coated Sar | Loc² | Tex org silt | ture anic y clay 2Location: I ators for Proto | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histosc Histosc Black H Hydrog | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 Toncentration, D=Depleti I Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) | % 100 90 | reeded to documer Ref Color (moist) 7.5YR 5 / 6 Paduced Matrix, CS=C Sandy Gleyed Sandy Redox Stripped Matrix Loamy Mucky | dox Feature % 10 10 Covered or (d Matrix (S4 (S5) rix (S6) y Mineral (F | Type¹ C Coated Sar | Loc² | Tex org silt | ture anic y clay 2Location: I ators for Protoast Prairie Ron-Manganes | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histoso Histoso Hydrog Stratifie | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 concentration, D=Depleti I Indicators: bl (A1) Epipedon (A2) Histic (A3) | % 100 90 | reeded to documer Rec Color (moist) 7.5YR 5 / 6 column 6 advantage of the column 7 Sandy Gleyer Sandy Redox Stripped Matrix | dox Feature % 10 10 Covered or G d Matrix (S4 s (S5) rix (S6) y Mineral (F d Matrix (F) | Type¹ C Coated Sar | Loc² | Tex org silt | ture anic y clay 2Location: I ators for Protoast Prairie Ron-Manganes | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histoso Histoso Hydrog Stratifie 2 cm M Deplete | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 10YR 4 / 1 concentration, D=Depleti I Indicators: DI (A1) Epipedon (A2) Histic (A3) Jen Sulfide (A4) Jed Layers (A5) Muck (A10) Jed Below Dark Surface (| % 100 90 on, RM=Re | reeded to documer Ref Color (moist) 7.5YR 5 / 6 Color (moist) 7.5YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S | dox Feature % 10 10 Covered or G d Matrix (S4 (S5) rix (S6) y Mineral (F d Matrix (F3) Surface (F6) | Coated Sar | Loc² | Tex org silt | ture anic y clay 2Location: I ators for Prot oast Prairie R on-Manganes ther (Explain | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histosc Histosc Histosc Stratific 2 cm M Deplete Thick D | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 10YR 4 / 1 concentration, D=Depleti I Indicators: bl (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) | % 100 90 on, RM=Re | reeded to documer Ref Color (moist) 7.5YR 5 / 6 Color (moist) 7.5YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | dox Feature % 10 10 Covered or (d Matrix (S4 (S5) rix (S6) y Mineral (F6 d Matrix (F3) Surface (F6 k Surface (F6 | Coated Sar (1) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7 | Loc² | Tex org silt | ture anic y clay 2Location: Interest for Protection oast Prairie Ron-Manganes ther (Explain | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick D Sandy | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 10YR 4 / 1 concentration, D=Depleti I Indicators: DI (A1) Epipedon (A2) Histic (A3) Jen Sulfide (A4) Jed Layers (A5) Muck (A10) Jed Below Dark Surface (| % 100 90 on, RM=Re | reeded to documer Ref Color (moist) 7.5YR 5 / 6 Color (moist) 7.5YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S | dox Feature % 10 10 Covered or (d Matrix (S4 (S5) rix (S6) y Mineral (F6 d Matrix (F3) Surface (F6 k Surface (F6 | Coated Sar (1) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7 | Loc² | Tex org silt | ture anic y clay 2Location: Interest for Protection oast Prairie Ron-Manganes ther (Explain | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick D Sandy 5 cm M Restrictive | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 10YR 4 / 1 concentration, D=Depleting in the color in the colo | % 100 90 on, RM=Re | reeded to documer Ref Color (moist) 7.5YR 5 / 6 Color (moist) 7.5YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | dox Feature % 10 10 Covered or (d Matrix (S4 (S5) rix (S6) y Mineral (F6 d Matrix (F3) Surface (F6 k Surface (F6 | Coated Sar (1) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7 | M M | Tex org silt | ture anic y clay 2Location: Interest for Proteonst Prairie Ron-Manganes ther (Explain ators of hydrotland hydrolog | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick D Sandy 5 cm M | Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 10YR 4 / 1 concentration, D=Depleting of the color of the colo | % 100 90 on, RM=Re | reeded to documer Ref Color (moist) 7.5YR 5 / 6 Color (moist) 7.5YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari | dox Feature % 10 10 Covered or (d Matrix (S4 (S5) rix (S6) y Mineral (F6 d Matrix (F3) Surface (F6 k Surface (F6 | Coated Sar (1) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7 | M M | S. Indica In Co | ture anic y clay 2Location: Interpreted for the proof of | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histoso Histoso Stratifie Stratifie Sandy Stratifie Sandy Type: Depth: (| Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 10YR 4 / 1 concentration, D=Depleting of the color of the colo | % 100 90 on, RM=Re | educed Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari Redox Depres | dox Feature % 10 10 Covered or (d Matrix (S4 (S5) rix (S6) y Mineral (F6 d Matrix (F3) Surface (F6 k Surface (F6 | Coated Sar (1) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7 | M M | Tex org silt silt silt silt silt silt silt silt | ture anic y clay 2Location: Interest for Protection on the protection of the protec | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. at? Yes |
| Profile Des Depth (Inches) 0-1 1-10 'Type: C=C Hydric Soi Histoso Histoso Stratifie Stratifie Sandy Stratifie Sandy Type: Depth: (| Matrix Color (moist) 10YR 2 / 1 10YR 4 / 1 10YR 4 / 1 concentration, D=Depleting in the concentration in the color in th | % 100 90 on, RM=Re | educed Matrix, CS=C Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dari Redox Depres | dox Feature % 10 10 Covered or (d Matrix (S4 (S5) rix (S6) y Mineral (F6 d Matrix (F3) Surface (F6 k Surface (F6 | Coated Sar (1) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7 | M M | Tex org silt silt silt silt silt silt silt silt | ²Location: In ators for Protonation (Explain ators of hydrottand hydrologic Soil Presentit dug? | Remarks saturated PL=Pore Lining, M=Matrix blematic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. at? Yes |

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| | | | | PAGE 2 |
|--|--------------|-------------|--|--|
| | | | | Sampling Date: 12/13/11 Sampling Point: SP62 |
| HYDROLOGY Wetland Hydrology Indica | tors: | | | |
| Primary Indicators (minimum | | s required: | check all that apply) | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | | | ☑ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) |
| ☐ High Water Table (A2) | | | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) |
| Saturation (A3) | | | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) |
| Water Marks (B1) | | | ☐ Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) |
| Sediment Deposits (B2) | | | Oxidized Rhizospheres on Living Roots (C3) | ☐ Saturation Visible on Aerial Imagery (C9) |
| ☐ Drift Deposits (B2) | | | ☐ Presence of Reduced Iron (C4) | Geomorphic Position (D2) |
| ☐ Algal Mat or Crust (B4) | | | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) |
| ☐ Iron Deposits (B5) | | | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) |
| ☐ Inundation Visible on Ae | erial Image | ery (B7) | Gauge or Well Data (D9) | |
| Sparsely Vegetated Con | ncave Sur | face (B8) | Other (Explain in Remarks) | |
| Field Observations: | | | | |
| Surface Water Present? | Yes | Depth (Inc | ches): 3 | |
| Water Table Present? | No | Depth (Inc | ches): | |
| Saturation Present? (includes capillary fringe) | Yes | Depth (Inc | ches): surface Wetland Hydrology Pr | resent? Yes |
| ☐ Recorded Data (Desc | ribe in F | Remarks): | | |
| ☐ Stream, Lake, or T ☐ Aerial Photograph ☐ Other | | ge | | |
| | | | | |
| Remarks: Hydrology presen | it - four pr | imary indic | ators 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.

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

| | e: EVP010 Phase I | | | City/Cou | nty: Cham | npaign Co |) . | Sampling D | ate: 12/13/11 |
|---|---|-------------------------------------|--|--|---------------------------------------|-----------|--|--|--|
| Applicant/0 | Owner: Everpower | | | State: O | Н | | İ | Sampling Po | oint: SP63 |
| Investigato | or(s): BMF/KMH | | | Section, | Township | , Range: | : | | |
| ` | hillslope, terrace, etc.): | | | l l | cal relief (| | | | |
| Slope (%):0 | | | Long: 83.5 | 8023 | I | Datum: W | | | 044 B0040 |
| | nit Name: Brookston sil | , , | | voor? Vo | o (If no o | | | sification: PF0 | D1A, PSS1C |
| | c/hydrologic conditions of the conditions of the conditions \square , Soil \square , or Hydronian \square , and \square | | | - | | | | | |
| _ | ition □, Soil □, or Hyd | | - | | | | | | |
| | <u> </u> | | | | <u> </u> | | | | |
| SUMMAR | Y FINDINGS – Attac | h site ma | p showing sampl | ing point | locations | s, transe | ects, i | mportant fe | eatures, etc. |
| Hydrophytic | c Vegetation Present? | Yes | | Is th | e Sample | d Area | | | |
| Hydric Soil | Present? | Yes | | with | in a Wetla | nd? | Yes | | |
| Wetland Hy | ydrology Present? | Yes | | | | | | | |
| Demontor | Noticed I/I/ formanted N | \A/Iatlanad | non-in-plated 40 flag | | | | | | |
| Remarks: V | Wetland KK, forrested N | vvi wetiand | , non-isolated, 12 flaç | gs | | | | | |
| | | | | | | | | | |
| VEGETAT | ΓΙΟΝ | (U | SFWS Region No. | 1 - North | east Sub | -Regio | n) | | |
| | See atta | ched sheet | for listing of plant | species ar | nd identific | cation of | domin | ant vegetation | on |
| Percent of | Dominant Species that a | are OBL, FA | ACW or FAC: (exclud | ling FAC-) : | = 7/7 = 100 |) % | | | |
| FAC Neutra | al Test: 6 > 0 = Pass | | | | | | | | |
| Prevalence | e Index = | | | | | | | | |
| Remarks: H | Hydrophytic community | s present | | | | | | | |
| SOIL | | • | LRR: M | | | | | | |
| | | 411 41- | | | | | | | |
| | scription: (Describe to | tne aeptn | | | | onfirm th | e abse | nce of indica | ators.) |
| Depth | Matrix | | Red | dox Feature | es | | | | |
| | Matrix Color (moist) | % 100 | | | | Loc² | Tex | ture | Remarks |
| Depth (Inches) 0-1 1-4 | Matrix | % | Color (moist) 7.5YR 5 / 6 | dox Feature % 20 | Type ¹ C | | Tex | | |
| Depth (Inches) 0-1 | Matrix Color (moist) 10YR 2 / 1 | % 100 | Color (moist) | dox Feature % | Type ¹ | Loc² | Tex org | ture anic | Remarks |
| Depth (Inches) 0-1 1-4 | Matrix Color (moist) 10YR 2/1 10YR 4/2 | % 100 80 | Color (moist) 7.5YR 5 / 6 | dox Feature % 20 | Type ¹ C | Loc² | Tex org | ture anic y clay | Remarks Organic - A0 |
| Depth (Inches) 0-1 1-4 | Matrix Color (moist) 10YR 2/1 10YR 4/2 | % 100 80 | Color (moist) 7.5YR 5 / 6 | dox Feature % 20 | Type ¹ C | Loc² | Tex org | ture anic y clay | Remarks Organic - A0 |
| Depth (Inches) 0-1 1-4 | Matrix Color (moist) 10YR 2/1 10YR 4/2 | % 100 80 | Color (moist) 7.5YR 5 / 6 | dox Feature % 20 | Type ¹ C | Loc² | Tex org | ture anic y clay | Remarks Organic - A0 |
| Depth (Inches) 0-1 1-4 4-12 | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 | % 100 80 85 | 7.5YR 5 / 6 10YR 5 / 6 | dox Feature % 20 15 | Type' C C | M M | Tex org silty | ture anic y clay y clay | Remarks Organic - A0 saturated |
| Depth (Inches) 0-1 1-4 4-12 | Matrix Color (moist) 10YR 2/1 10YR 4/2 | % 100 80 85 | 7.5YR 5 / 6 10YR 5 / 6 | dox Feature % 20 15 | Type' C C | M M | Tex org silty silty | ture anic y clay y clay 2Location: I | Remarks Organic - A0 |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 concentration, D=Deplet I Indicators: bi (A1) | % 100 80 85 | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 educed Matrix, CS=0 | dox Feature % 20 15 Covered or 0 | Type' C C C | M M | Tex org silty silty | ture anic y clay y clay 'Location: I ators for Proto | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils³: Redox (A16) |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histosc Histic E | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 concentration, D=Deplet I Indicators: bl (A1) Epipedon (A2) | % 100 80 85 | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 educed Matrix, CS=0 Sandy Gleyed Sandy Redox | dox Feature % 20 15 Covered or 6 d Matrix (S4 | Type' C C C | M M | Tex org silty silty | ture anic y clay y clay **Location: Inters for Protoast Prairie Ron-Manganes | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histosc Histic E Black H | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 concentration, D=Deplet I Indicators: bl (A1) Epipedon (A2) Histic (A3) | % 100 80 85 | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 educed Matrix, CS=0 Sandy Gleyed Sandy Redox Stripped Matrix | dox Feature % 20 15 Covered or 0 d Matrix (S4 (S5) rix (S6) | C C C C C C C C C C C C C C C C C C C | M M | Tex org silty silty | ture anic y clay y clay 'Location: I ators for Proto | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histosc Histic E Black H Hydrog | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) | % 100 80 85 | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 educed Matrix, CS=0 Sandy Gleyer Sandy Redox Stripped Matrix Loamy Mucky | dox Feature % 20 15 Covered or 0 d Matrix (S4 (S5) rix (S6) r Mineral (F | Type' C C C Coated Sa | M M | Tex org silty silty | ture anic y clay y clay **Location: Inters for Protoast Prairie Ron-Manganes | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histoso Histoso Histoso Stratifie Stratifie | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 concentration, D=Deplet I Indicators: bl (A1) Epipedon (A2) Histic (A3) | % 100 80 85 | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 educed Matrix, CS=0 Sandy Gleyed Sandy Redox Stripped Matrix | dox Feature % 20 15 Covered or G d Matrix (S4 (S5) rix (S6) r Mineral (F) d Matrix (F) | Type' C C C Coated Sa | M M | Tex org silty silty | ture anic y clay y clay **Location: Inters for Protoast Prairie Ron-Manganes | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface | % 100 80 85 sion, RM=Re | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 10YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S | covered or G d Matrix (S4 (S5) rix (S6) / Mineral (F4 d Matrix (F3) Surface (F6) | Coated Sa 4) | M M | Tex org silty silty | ture anic y clay y clay 2Location: I ators for Prot oast Prairie R on-Manganes ther (Explain | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histoso Histoso Stratifie 2 cm M Deplete Thick D | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) | % 100 80 85 sion, RM=Re | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 10YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dar | covered or of d Matrix (S4 (S5) ix (S6) / Mineral (F3 (F3) Surface (F6 k Surface (| Coated Sa 4) F1) F7) | M M | Tex org silty silt | ture anic y clay y clay 2Location: I ators for Prot oast Prairie R on-Manganes ther (Explain | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick D Sandy | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface | % 100 80 85 sion, RM=Re | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 10YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S | covered or of d Matrix (S4 (S5) ix (S6) / Mineral (F3 (F3) Surface (F6 k Surface (| Coated Sa 4) F1) F7) | M M | Tex org silty silt | ture anic y clay y clay 2Location: I ators for Prot oast Prairie R on-Manganes ther (Explain | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils ³ : Redox (A16) se Masses (F12) in Remarks) |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick D Sandy 5 cm M Restrictive | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 concentration, D=Deplet Indicators: D(A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) | % 100 80 85 sion, RM=Re | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 10YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dar | covered or of d Matrix (S4 (S5) ix (S6) / Mineral (F3 (F3) Surface (F6 k Surface (| Coated Sa 4) F1) F7) | M M | Tex org silty silt | ture anic y clay y clay **Location: Interest for Protoast Prairie Ron-Manganes ther (Explain ators of hydrotland hydrolog | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histoso Histoso Stratific 2 cm M Deplete Thick D Sandy 5 cm M Restrictive Type: | Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 2.5Y5/2 concentration, D=Deplet Indicators: D(A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) E Layer (if observed): | % 100 80 85 sion, RM=Re | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 10YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dar | covered or of d Matrix (S4 (S5) ix (S6) / Mineral (F3 (F3) Surface (F6 k Surface (| Coated Sa 4) F1) F7) | M M | Tex org silty silt | ture anic y clay y clay 2Location: Interest for Protection oast Prairie Ron-Manganes ther (Explain ators of hydrotland hydrolog | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histoso Histoso Stratifie 2 cm M Deplete Thick D Sandy 5 cm M Restrictive Type: Depth: (| Matrix Color (moist) 10YR 2/1 10YR 4/2 2.5Y5/2 2.5Y5/2 concentration, D=Deplet Indicators: D(A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) E Layer (if observed): | % 100 80 85 ion, RM=Re | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 10YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dar Redox Depre | covered or of d Matrix (S4 (S5) ix (S6) / Mineral (F3 (F3) Surface (F6 k Surface (| Coated Sa 4) F1) F7) | M M | Tex org silty silt | ture anic y clay y clay 2Location: Interest for Protection oast Prairie Ron-Manganes ther (Explain ators of hydrotland hydrolog | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. at? Yes Yes |
| Depth (Inches) 0-1 1-4 4-12 'Type: C=C Hydric Soi Histoso Histoso Stratifie 2 cm M Deplete Thick D Sandy 5 cm M Restrictive Type: Depth: (| Matrix Color (moist) 10YR 2 / 1 10YR 4 / 2 2.5Y5 / 2 2.5Y5 / 2 concentration, D=Deplet Indicators: ol (A1) Epipedon (A2) Histic (A3) gen Sulfide (A4) ed Layers (A5) Muck (A10) ed Below Dark Surface (Dark Surface (A12) Mucky Mineral (S1) Mucky Peat or Peat (S3) E Layer (if observed): inches): | % 100 80 85 ion, RM=Re | Rec Color (moist) 7.5YR 5 / 6 10YR 5 / 6 10YR 5 / 6 Sandy Gleyer Sandy Redox Stripped Matr Loamy Mucky Loamy Gleyer Depleted Mat Redox Dark S Depleted Dar Redox Depre | covered or of d Matrix (S4 (S5) ix (S6) / Mineral (F3 (F3) Surface (F6 k Surface (| Coated Sa 4) F1) F7) | M M | Tex org silty silt | ture anic y clay y clay 2Location: Interpreted the second | Remarks Organic - A0 saturated PL=Pore Lining, M=Matrix blematic Hydric Soils³: Redox (A16) se Masses (F12) in Remarks) ophytic vegetation and gy must be present. at? Yes Yes |

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|--|--|--|--|
| | | Sampling Date: 12/13/11 | |
| | | Sampling Point: SP63 | |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: | check all that apply) | Secondary Indicators (minimum of two required) | |
| Surface Water (A1) | ☐ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) | |
| ☐ High Water Table (A2) | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) | |
| Saturation (A3) | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) | |
| ☐ Water Marks (B1) | ☐ Hydrogen Sulfide Odor (C1) | ☐ Crayfish Burrows (C8) | |
| Sediment Deposits (B2) | Oxidized Rhizospheres on Living Roots (C3) | ☐ Saturation Visible on Aerial Imagery (C9) | |
| ☐ Drift Deposits (B2) | Presence of Reduced Iron (C4) | Geomorphic Position (D2) | |
| ☐ Algal Mat or Crust (B4) | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) | |
| ☐ Iron Deposits (B5) | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) | |
| ☐ Inundation Visible on Aerial Imagery (B7) | Gauge or Well Data (D9) | | |
| Sparsely Vegetated Concave Surface (B8) | Other (Explain in Remarks) | | |
| Field Observations: | | | |
| Surface Water Present? No Depth (Inc. | ches): | | |
| Water Table Present? Yes Depth (Inc | ches): 7 | | |
| Saturation Present? Yes (includes capillary fringe) | ches): 7 Wetland Hydrology Pr | resent? Yes | |
| ☐ Recorded Data (Describe in Remarks): | | | |
| ☐ Stream, Lake, or Tide Gauge☐ Aerial Photographs☐ Other | | | |
| | | | |
| Remarks: Hydrology is present - two primary inc | licators, 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.

| | INDICATOR | | PLANT | % | |
|---------------------------|-----------|-----------|-------|--------|----------|
| SPECIES | STATUS | STRATUM | 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 | | | |
| | | TDM= | 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 | | | |
| | | TDM= | 43 | | |
| Fraxinus pennsylvanica | FACW | Tree | 30 | 67% | Yes |
| Quercus bicolor | FACW+ | Tree | 15 | 33% | Yes |
| | | Tree | | | |
| | | | | | |
| | | Tree TDM= | 45 | | |
| | | | 40 | | |
| | | Vine | | | |

| Project/Site: EVP010 Phase I | | | City/Cou | nty: Cham | paign C | o. Sam | pling Date: 12-14-11 |
|---|---------------|----------------------|--|-------------|-------------|---------------|----------------------|
| Applicant/Owner: Everpower | | | State: O | 1 | | Sam | oling Point: SP66 |
| Investigator(s): BMF | | | Section, | Township | , Range |): : | |
| 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 , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks).No | | | | | | | |
| SUMMARY FINDINGS – Attack | n site map | showing sampli | ing point | locations | s, trans | ects, impor | tant features, etc. |
| Hydrophytic Vegetation Present? | Yes | | Is the | e Sampled | l Area | | |
| Hydric Soil Present? | Yes | | | n a Wetlaı | | Yes | |
| Wetland Hydrology Present? | Yes | | | | | | |
| Remarks: Wetland NN, non-isolated | i | | | | | | |
| | | | | | | | |
| VEGETATION | (US | FWS Region No. | 1 - North | east Sub | -Regio | on) | |
| | | for listing of plant | - | | | f dominant ve | egetation |
| Percent of Dominant Species that a | re OBL, FA | CW or FAC: (exclud | ing FAC-) = | = 8/8 = 100 | % | | |
| FAC Neutral Test: 6 > 0 = Pass | | | | | | | |
| Prevalence Index = | | | | | | | |
| Remarks: Hydrophytic plant commu | inity is pres | ent | | | | | |
| SOIL | | LRR: M | | | 6 41 | | <u> </u> |
| Profile Description: (Describe to Depth Matrix | tne deptn i | | ox Feature | | ntirm tr | ne absence o | f indicators.) |
| (Inches) Color (moist) | % | Color (moist) | % | Type¹ | Loc² | | Remarks |
| 0-12 10YR 4 / 2 | 90 | 10YR 5/8 | 10 | С | М | silt loam | saturated |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Ztrom Muck (A10) Depleted Below Dark Surface (A11) Redox Depressions (F8) Tocation: PL=Pore Lining, M=Matrix (PL=Pore Lining, M=Matrix | | | | | | | |
| 5 cm Mucky Peat or Peat (S3) | | | - 5.5.15 (1 0) | | | | , |
| Restrictive Layer (if observed): Type: Depth: (inches): Remarks: Hydric soil is present by | indicator F3 | | Hydric Soil Soil pit dug (if yes selec | ? Yes | | | |

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DUBLIN, OHIO

OCTOBER 2007
1000.300

| | | | | PAGE 2 | |
|--|------------|-------------|--|--|--|
| | | | | Sampling Date: 12-14-11 Sampling Point: SP66 | |
| HYDROLOGY Wetland Hydrology Indic | ators: | | | | |
| Primary Indicators (minimu | | s required: | check all that apply) | Secondary Indicators (minimum of two required) | |
| Surface Water (A1) | | | ☑ Water-Stained Leaves (B9) | Surface Soil Cracks (B6) | |
| ☐ High Water Table (A2) | | | Aquatic Fauna (B13) | ☐ Drainage Patterns (B10) | |
| ⊠ Saturation (A3) | | | ☐ True Aquatic Plants (B14) | ☐ Dry-Season Water Table (C2) | |
| Water Marks (B1) | | | ☐ Hydrogen Sulfide Odor (C1) | Crayfish Burrows (C8) | |
| Sediment Deposits (B2) | | | Oxidized Rhizospheres on Living Roots (C3) | ☐ Saturation Visible on Aerial Imagery (C9) | |
| ☐ Drift Deposits (B2) | | | ☐ Presence of Reduced Iron (C4) | Geomorphic Position (D2) | |
| ☐ Algal Mat or Crust (B4) | | | Recent Iron Reduction in Tilled Soils (C6) | ☐ FAC-Neutral Test (D5) | |
| ☐ Iron Deposits (B5) | | | ☐ Thin Muck Surface (C7) | Other (Explain in Remarks) | |
| | erial Imag | ery (B7) | Gauge or Well Data (D9) | | |
| ☐ Sparsely Vegetated Co | ncave Su | face (B8) | Other (Explain in Remarks) | | |
| Field Observations: | | | | | |
| Surface Water Present? | Yes | Depth (Inc | ches): 3 | | |
| Water Table Present? | No | Depth (Inc | ches): | | |
| Saturation Present? (includes capillary fringe) | Yes | Depth (Inc | ches): surface Wetland Hydrology P | resent? Yes | |
| ☐ Recorded Data (Des | cribe in F | Remarks): | | | |
| ☐ Stream, Lake, or ☐ Aerial Photograpl ☐ Other | | ıge | | | |
| | | | | | |
| Remarks: Hydrology is pre | sent by nu | merous ind | icators. | | |
| | | | | | |
| | | | | | |

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 | | | |
| | | TDM= | 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 | | | |
| | | TDM= | 42 | | |
| Salix nigra | FACW+ | Tree | 35 | | Yes |
| Populus deltoides | FAC | Tree | 20 | 36% | Yes |
| | | Tree | | | |
| | | TDM= | 55 | | |
| | | Vine | | | |
| | | TDM= | 0 | | |

WETLAND DETERMINATION DATA FORM - Midwest Region

| Project/Site: E V PO 10 | City/C | county: Char | npaign | Sampling Date: 3/4 / 13 | | |
|---|--|--|---|---|--|--|
| Applicant/Owner: Everpower Wind Ho | old inns | Inc. | State: O H | Sampling Point: W-C+-KA | | |
| Investigator(s): K. Hershu, M. Malnar Section, Township, Range: | | | | | | |
| Landform (hillslope, terrace, etc.): Swall | | | | COOCAM | | |
| Landiorm (nillslope, terrace, etc.): 3 WAVE | | Local reliei | (concave, convex, none) | - MAGGIAGH | | |
| Slope (%): Lat: Soil Map Unit Name: Crosby silt loam | Long: | | 21 | Datum: <u>VVU319189</u> | | |
| | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this | is time of year? Y | | | | | |
| Are Vegetation, Soil, or Hydrology: | significantly distur | bed? N Are | "Normal Circumstances" | present? Yes V. No | | |
| Are Vegetation, Soil, or Hydrology | naturally problem: | atic? N (If ne | eded, explain any answe | ers in Remarks.) | | |
| SUMMARY OF FINDINGS - Attach site map | | | ocations, transects | s, important features, etc. | | |
| Hydrophytic Vegetation Present? Yes N | in | | ······································ | · · · · · · · · · · · · · · · · · · · | | |
| • | to | is the Sampled | l Area | / | | |
| Welland Hydrology Present? Yes N | | within a Wetla | nd? Yes | No | | |
| Remarks: all 3 wetland crite | | e heen | med | | | |
| all 5 werrand criss | V 1 0(1 .0c.) | 0 300 | rivani, | | | |
| | | | | | | |
| VEGETATION – Use scientific names of plants | | ······································ | e a an e ca a compute tata a trada antiqua. | | | |
| VEGETATION - Ose scientific names of plants | | ninant Indicator | Dominance Test worl | (shoot | | |
| Tree Stratum (Plot size: 30') | % Cover Spe | | Number of Dominant S | | | |
| 1. Salix nigra | 10 V | OBL | That Are OBL, FACW, | | | |
| 2. | | | Total Number of Domin | nent 3 | | |
| 3 | | | Species Across All Stra | <i></i> | | |
| 4. | No. Section of the Se | | Percent of Dominant S | necies () () | | |
| 5 | | | That Are OBL, FACW, | | | |
| Sapling/Shrub Stratum (Plot size: 15') | = Tol | al Cover | Prevalence Index wo | tehant: | | |
| Sapling/Shrub Stratum (Plot size: 1) | 15 | 1 181 | 1 | Multiply by: | | |
| 1. Salix nigra | | | 1 | x1= | | |
| 2. | | | 1 ' | ×2= | | |
| 3. 4. | | | i | x3= | | |
| 5 | | | | ×4 = | | |
| · . | 15 = Tot | al Cover | l . | x5= | | |
| Herb Stratum (Plot size:) | | | | (A)(B) | | |
| 1. Epilobium coloratum | <u> 10 </u> | OBL | | | | |
| 2. Apocynum cannabinum | 5 | <u>FAC</u> | | : = B/A = | | |
| 3. Xanfhium Stromanium | | FAC | Hydrophytic Vegetati | | | |
| 4. Typna angustifolia 5. Scirpus cypeninus | <u> </u> | OBL | | Hydrophytic Vegetation | | |
| 5. Scirpus cyperinus | _15 | OBL | 2 - Dominance Te | 1 | | |
| 6 | | | 3 - Prevalence Ind | | | |
| 7. | · —— —— | | 4 - Morphological | Adaptations ^t (Provide supporting sor on a separate sheet) | | |
| 8 | | | 1 | phytic Vegetation ¹ (Explain) | | |
| 9 | | | | p.,, (=»p, | | |
| 10 | | | ¹ Indicators of hydric so | il and wetland hydrology must | | |
| Woody Vine Stratum (Plot size: 301) | 95 = Tot | al Cover | be present, unless dist | | | |
| 1. Plot size. | | | 111 | | | |
| | | | Hydrophytic Vegetation | / | | |
| 2 | | al Cover | Present? Ye | s No | | |
| Remarks: (Include photo numbers here or on a separate | . (4) | | | | | |
| Wetland Vegetation | m criter | ion has | been met | | | |
| | | | | | | |
| | | | | | | |

| | , to the act | itii needea to aocan | | innicatoi | A1 00111111 | n the absence of Indicators.) |
|--|--------------------------------------|--|--|---|--------------------------------|--|
| Depth Matrix | | Redo | x Feature | s | | |
| (inches) Color (moist) | % | Color (moist) | % | _Type ¹ | _Loc² | Texture Remarks |
| 0.3 10YA3/2 | 100 | | _ | _ | | 51 Hy clay |
| 3-10 104R3/2 | 90 | 104R 6/8 | 10 | <u>C</u> | M | " 112 |
| 10-20 104R3/1 | 90 | LOYR G/8 | 10 | <u> </u> | M | Clay |
| | | <u> </u> | · | | | |
| | - | *** ****** ******* * ***** | | | | The state of the s |
| | | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | | |
| | | | | | | |
| ¹ Type: C=Concentration, D=De | pletion, RM | =Reduced Matrix, MS | 3=Masked | Sand Gr | aìns. | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil Indicators: | | • | | | | Indicators for Problematic Hydric Soils ³ : |
| Histosol (A1) | | | Sleyed Ma | | | Coast Prairie Redox (A16) |
| Histic Epipedon (A2) | | | Redox (S5 | - | | Dark Surface (S7) Iron-Manganese Masses (F12) |
| Black Histic (A3) Hydrogen Sulfide (A4) | | | l Matrix (6 Jucky Mir | neral (F1) | | Very Shallow Dark Surface (TF12) |
| Stratified Layers (A5) | | | Sleyed Ma | | | Other (Explain in Remarks) |
| 2 cm Muck (A10) | | | d Matrix (| , , | | |
| Depleted Below Dark Surface | ce (A11) | • | ark Surfe | • | | |
| Thick Dark Surface (A12) | , , | Depleted | d Dark Su | rface (F7 |) | 3Indicators of hydrophytic vegetation and |
| Sandy Mucky Mineral (S1) | | Redox D | epressio | ns (F8) | | wetland hydrology must be present, |
| 5 cm Mucky Peat or Peat (S | - | | | | | unless disturbed or problematic. |
| Restrictive Layer (if observed |): | | | | | / |
| Type: | | | | | | Hydric Soil Present? Yes No |
| Depth (inches): | | | | | | |
| Remarks: | c ~ '1 | | 1 | la i | _ | <u>,</u> |
| Hydric : | 301((| CVITCVION: | rias | De | in w | net |
| | | | | | | · · · |
| | | | | | | |
| | | | | | | |
| | | | ······································ | | | |
| HYDROLOGY | | | | | | |
| Wetland Hydrology Indicators | | | | | | |
| Wetland Hydrology Indicators Primary Indicators (minimum of | | | | | | Secondary Indicators (minimum of two required) |
| Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) | | Water-Stair | ned Leav | | | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) |
| Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) | | Water-Stail | ned Leav una (B13 |) | | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) |
| Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) | | Water-Stair Aquatic Far True Aquat | ned Leav una (B13 lic Plants |) (B14) | | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) | | Water-Stain Aquatic Fa True Aquat Hydrogen 6 | ned Leave una (B13 lic Plants Sulfide Oc |) (B14) dor (C1) | | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) |
| Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) | | Water-Stain Aquatic Fai True Aquati Hydrogen Si Oxidized R | ned Leave una (B13 lic Plants Sulfide Och hizosphe |) (B14) dor (C1) res on Liv | ing Roots | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) |
| Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) | | Water-Stain Aquatic Fai True Aquat Hydrogen S Oxidized R | ned Leavuna (B13 lic Plants Sulfide Ochizosphe of Reduce |) (B14) dor (C1) res on Liv d Iron (C4 | ing Roots | 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) |
| Wetland Hydrology Indicators Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) | | Water-Stain Aquatic Fai True Aquat Hydrogen S Oxidized R Presence of Recent Iror | ned Leave una (B13 lic Plants Sulfide Ochizosphe of Reduce In Reduction |) (B14) dor (C1) res on Liv d Iron (C4 on in Tille | ing Roots | 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) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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) | one is requi | Water-Stain Aquatic Fai True Aquat Hydrogen S Oxidized R Presence of Recent Iron Thin Muck | ned Leave una (B13 lic Plants Sulfide Oc hizosphe of Reduce n Reducti Surface (|) (B14) dor (C1) res on Liv d Iron (C4 on in Tille C7) | ing Roots | 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) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 | one is requi | Water-Stain Aquatic Fai Aquatic Fai True Aquati Hydrogen 5 Oxidized R Presence 0 Recent Iror Thin Muck Gauge or V | ned Leave una (B13 lic Plants Sulfide Oc hizosphe of Reducti Surface (Vell Data |) (B14) dor (C1) res on Liv d Iron (C4 on in Tille C7) (D9) | ing Roots | 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) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concave | one is requi | Water-Stain Aquatic Fai Aquatic Fai True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck Gauge or V | ned Leave una (B13 lic Plants Sulfide Oc hizosphe of Reducti Surface (Vell Data |) (B14) dor (C1) res on Liv d Iron (C4 on in Tille C7) (D9) | ing Roots | 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) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concavers | imagery (B' | Water-Stain Aquatic Far True Aquati Hydrogen Sir Oxidized Right Presence of Recent Iron Thin Muckit 7) | ned Leav una (B13 dic Plants Sulfide Od hizosphe of Reduce n Reducti Surface (Well Data lain in Re |) (B14) dor (C1) res on Liv d Iron (C4 on in Tille C7) (D9) | ing Roots | 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) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concav Field Observations: Surface Water Present? | imagery (B e Surface (| Water-Stain Aquatic Far True Aquatic Far Hydrogen Sir Oxidized Right Presence of Recent Iron Thin Muck The Gauge or Vision Canada Sir C | ned Leav una (B13 lic Plants Sulfide Od hizosphe of Reduce n Reducti Surface (Well Data lain in Re | (B14) (B14) dor (C1) res on Liv d Iron (C4) on in Tille (C7) (D9) marks) | ing Roots | 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) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concav Field Observations: Surface Water Present? | Imagery (B re Surface (| Water-Stain Aquatic Far Aquatic Far True Aquati Hydrogen 6 Oxidized R Presence of Recent Iron Thin Muck To Gauge or V B8) Other (Exp | ned Leavuna (B13 lic Plants Sulfide Orihizosphe of Reducein Reduction Reduction Reduction Reduction Reduction Reduction in Reduction Red | (B14) (B14) dor (C1) res on Liv d Iron (C4) on in Tille (C7) (D9) marks) | ing Roots i) d Soils (Co | 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) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concaveried Observations: Surface Water Present? Water Table Present? | Imagery (B re Surface (| Water-Stain Aquatic Far True Aquatic Far Hydrogen Sir Oxidized Right Presence of Recent Iron Thin Muck The Gauge or Vision Canada Sir C | ned Leavuna (B13 lic Plants Sulfide Orihizosphe of Reducein Reduction Reduction Reduction Reduction Reduction Reduction in Reduction Red | (B14) (B14) dor (C1) res on Liv d Iron (C4) on in Tille (C7) (D9) marks) | ing Roots i) d Soils (Co | 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) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concav Field Observations: Surface Water Present? | imagery (B' ye Surface (I' yes | Water-Stain Aquatic Far Aquatic Far Aquatic Far Aquatic Far Aquatic Far Advantage of Stain Muck Advantage of V B8) Advantage of V B8 Advantage of V B | ned Leave una (B13 lic Plants Sulfide Or hizosphe of Reduce n Reducti Surface (Vell Data lain in Re ches): | (B14) | ing Roots i) d Soils (Co | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) |
| Wetland Hydrology Indicators Primary Indicators (minimum of | imagery (B' ye Surface (I' yes | Water-Stain Aquatic Far Aquatic Far Aquatic Far Aquatic Far Aquatic Far Advantage of Stain Muck Advantage of V B8) Advantage of V B8 Advantage of V B | ned Leave una (B13 lic Plants Sulfide Or hizosphe of Reduce n Reducti Surface (Vell Data lain in Re ches): | (B14) | ing Roots i) d Soils (Co | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concaverield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Imagery (B' re Surface (I' res | Water-Stain Aquatic Far Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck To Gauge or V B8) Other (Exp No Depth (Inc No Depth (Inc No Depth (Inc | ned Leavuna (B13) lic Plants Sulfide Ori hizosphe of Reduce n Reducti Surface (Well Data lain in Re ches); | (B14) (B14) for (C1) res on Liv d Iron (C- on in Tille (C7) (D9) marks) 11 Urf evious ins | ing Roots i) d Solls (Co | 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) Iand Hydrology Present? Yes No |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concaverield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Imagery (B' re Surface (I' res | Water-Stain Aquatic Far Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck To Gauge or V B8) Other (Exp No Depth (Inc No Depth (Inc No Depth (Inc | ned Leavuna (B13) lic Plants Sulfide Ori hizosphe of Reduce n Reducti Surface (Well Data lain in Re ches); | (B14) (B14) for (C1) res on Liv d Iron (C- on in Tille (C7) (D9) marks) 11 Urf evious ins | ing Roots i) d Solls (Co | 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) Iand Hydrology Present? Yes No |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concaverield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Imagery (B' re Surface (I' res | Water-Stain Aquatic Far Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck To Gauge or V B8) Other (Exp No Depth (Inc No Depth (Inc No Depth (Inc | ned Leavuna (B13) lic Plants Sulfide Ori hizosphe of Reduce n Reducti Surface (Well Data lain in Re ches); | (B14) (B14) for (C1) res on Liv d Iron (C- on in Tille (C7) (D9) marks) 11 Urf evious ins | ing Roots i) d Solls (Co | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5) |
| Wetland Hydrology Indicators Primary Indicators (minimum of 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 Sparsely Vegetated Concaverield Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (strean | Imagery (B' re Surface (I' res | Water-Stain Aquatic Far Aquatic Far True Aquat Hydrogen S Oxidized R Presence of Recent Iror Thin Muck To Gauge or V B8) Other (Exp No Depth (Inc No Depth (Inc No Depth (Inc | ned Leavuna (B13) lic Plants Sulfide Ori hizosphe of Reduce n Reducti Surface (Well Data lain in Re ches); | (B14) (B14) for (C1) res on Liv d Iron (C- on in Tille (C7) (D9) marks) 11 Urf evious ins | ing Roots i) d Solls (Co | 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) Iand Hydrology Present? Yes No |

WETLAND DETERMINATION DATA FORM - Midwest Region

| Project/Site: EVPOIO | | City/County | Cha | mpaian | Sampling Date: 3/4/13 |
|---|------------------|----------------------|--|--|--|
| Applicant/Owner: Everpower Wind Hald | Dinas | Tinc | · ــــــــــــــــــــــــــــــــــــ | State: OH | Sampling Point: Wet-KF |
| Investigator(s): K. Hershey, M. Molnar | | Section To | wnship, Rar | nge: CONCANE | - Odisping i Cara |
| Landform (hillslope, terrace, etc.): Swalls. | | | | | |
| Slope (%): Lat: | | | 12.66 | Ju 2.2 | Datum: 14 6 5 1984 |
| Slope (%): | | Long:c | 2 / C v B | All by place in | Datum. VO C 1 1 C. |
| Soil Map Unit Name: Crasby 511+ 10am, | | | | | |
| Are climatic / hydrologic conditions on the site typical for this | | | | (If no, explain in R | |
| Are Vegetation, Soil, or Hydrologysi | | | | | present? Yes V No |
| Are Vegetation, Soil, or Hydrologyn | aturally pro | blematic? | /¥ (if ne | eded, explain any answe | rs in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map s | showing | samplin | g point le | ocations, transects | , important features, etc. |
| | o | _ | ~ lad | • • | |
| | 0 | l l | e Sampled | | No |
| | ° <u></u> | With | in a Wetlan | id? ies_V | NO |
| Remarks: All 3 Wetland criteria | hav | m be | em me | * | |
| AI 3 Wetland Colored | 1 1 CK V | | Pri i revo | | |
| | | | | | |
| VEGETATION – Use scientific names of plants. | | | | | |
| Tree Stratum (Plot size: 30') | Absolute % Cover | Dominant Species? | | Dominance Test work | |
| | | | | Number of Dominant S That Are OBL, FACW, | |
| 1. Salu'x nigra | | | | | 2 |
| 3. | | | | Total Number of Domir Species Across All Stra | |
| 4. | | | | | , |
| 5 | | | | Percent of Dominant S That Are OBL, FACW, | |
| 1-1 | | = Total Co | ver | | |
| Sapling/Shrub Stratum (Plot size: 15') | | . , | , | Prevalence Index wor | |
| 1. <u>Saux III a la l</u> | | | <u> </u> | | Multiply by: |
| 2 | . —— | | | | x1= |
| 3 | | | | · · | x2= x3= |
| 4 | | - | - | | x3= |
| 5 | . — | = Total Co | · | 1 | x5= |
| Herb Stratum (Piot size: 5/ | | ,= 10tai 00 | vei | 1 · · · · · · · · · · · · · · · · · · · | (A) (B) |
| 1. Apocunum cannabinum | 10_ | | FAC | | |
| 2 X an thrum strumarium | 10 | | FAC | 1 | k = B/A = |
| 3. Typha angushifolia | <u>60</u> | | OBL | | |
| 4. Scirpus cyperinus | 10 | | OBL | 1 | Hydrophytic Vegetation |
| 5. Festuca Fubra | 10 | | FACU | 2 - Dominance Tes | |
| 6 | | | | 3 - Prevalence Ind | lex is ≤3.0° Adaptations¹ (Provide supporting |
| 7 | | | | data in Remark | Adaptations (Provide Supporting as or on a separate sheet) |
| 8 | | | | 1 | ophytic Vegetation ¹ (Explain) |
| 9 | | | | | |
| 10, | | = Total Co | | ¹ Indicators of hydric so | oil and wetland hydrology must |
| Woody Vine Stratum (Plot size: 301) | <u></u> | _= 10ta1 Co | Ver | be present, unless dist | urbed or problematic. |
| 1. | | | | Hydrophytic | |
| 2. | | | | Vegetation | / |
| | | = Total Co | ver | Present? Ye | es No |
| Remarks: (Include photo numbers here or on a separate | sheet.) | | 1 | A | |
| Wetland vegetation or | turion | 1 has | 5 DE | en met. | |
| 0 | | | | | |

| Profile Description: (Describe to the dept | | | | or confin | m the absence of indicators.) |
|---|-------------------------|--------------|-------------------|------------------|---|
| Depth Matrix (inches) Color (moist) % | | Feature: | Type ¹ | Loc ² | Texture Remarks |
| | Color (moist) | | Type | LUC | |
| 0-3 104R 3/2 100 | 101000 | - | | - A | silty clay |
| 3-10 10/R3/2 90 | 101B 6/8 | 70 | <u></u> | M | |
| 10-20104R3/1 90 | 10 YR WB | 10 | <u>C</u> | M | clau |
| | • | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| ¹ Type: C=Concentration, D=Depletion, RM= | Reduced Matrix, MS | =Masked | Sand Gr | ains. | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil Indicators: | | | | | Indicators for Problematic Hydric Soils ³ : |
| Histosol (A1) | Sandy G | - | | | Coast Prairie Redox (A16) |
| Histic Epipedon (A2) | Sandy R | _ | - | | Dark Surface (S7) |
| Black Histic (A3) | | Matrix (S | • | | Iron-Manganese Masses (F12) |
| Hydrogen Sulfide (A4) | | • | neral (F1) | | Very Shallow Dark Surface (TF12) Other (Explain in Remarks) |
| Stratified Layers (A5) 2 cm Muck (A10) | Z Depleted | | | | Outer (Explain in Remarks) |
| Depleted Below Dark Surface (A11) | | ark Surfa | • | | |
| Thick Dark Surface (A12) | — | | rface (F7 |) | ³ Indicators of hydrophytic vegetation and |
| Sandy Mucky Mineral (S1) | Redox D | | | | wetland hydrology must be present, |
| 5 cm Mucky Peat or Peat (S3) | | | | | unless disturbed or problematic. |
| Restrictive Layer (if observed): | | | | | , |
| Туре: | | | | | Hadrin Call Dranaud? Man No |
| Depth (inches): | ********* | | | | Hydric Soil Present? Yes No |
| Remarks: | | | | | |
| Hydric soil crit | 1 | | | | |
| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | | | | | |
| Primary Indicators (minimum of one is require | ed; check all that app | oly) | | | Secondary Indicators (minimum of two required) |
| Surface Water (A1) | Water-Stair | ned Leav | es (B9) | | Surface Soil Cracks (B6) |
| ✓ High Water Table (A2) | Aquatic Far | una (B13 |) | | Drainage Patterns (B10) |
| Saturation (A3) | True Aquat | ic Plants | (B14) | | Dry-Season Water Table (C2) |
| Water Marks (B1) | Hydrogen S | Sulfide O | dor (C1) | | Crayfish Burrows (C8) |
| ✓ Sediment Deposits (B2) | Oxidized R | hizosphe | res on Liv | ing Roots | (C3) Saturation Visible on Aerial Imagery (C9) |
| Drift Deposits (B3) | Presence o | | - | - | Stunted or Stressed Plants (D1) |
| Algal Mat or Crust (B4) | Recent Iron | | | d Soils (C | |
| Iron Deposits (B5) | Thin Muck | | | | FAC-Neutral Test (D5) |
| Inundation Visible on Aerial Imagery (B7 | | | | | |
| Sparsely Vegetated Concave Surface (E | 8) Other (Exp | lain in Re | emarks) | | |
| Field Observations: | | | - 0 !! | | |
| | lo Depth (inc | | | - | |
| | lo Depth (inc | | 0 0 + . | | |
| Saturation Present? Yes V | lo Depth (inc | hes): | 304 | Wet | land Hydrology Present? Yes No |
| (includes capillary fringe) Describe Recorded Data (stream gauge, mo | nitoring well, aerial p | hotos, pr | evious ins | pections) | , if available: |
| 3.230, | | , , | | • | |
| Remarks: Wetland hyd | drology | Cr | iter | Ton | has been met. |

APPENDIX C

ORAM Data Sheets

| ORAM v. 5.0 Field Fo | rm Quantitative Rating | , , |
|----------------------|--|---|
| Site: EVPQ | POI Wettand H Rater(s): KC; 5MH | Date: ///2//03 |
| 22 | 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 u | ise. |
| 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. | |
| 4 | VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) X LOW. Old field (>10 years), shrubland, young second growth forest. (5) MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) | . (3) |
| 13 26 | Metric 3. Hydrology. | |
| max 30 pts, subtotal | Seasonal/Intermittent surface water (3) Perennial surface water (lake or stream) (5) Part of riparian or uplan Duration inundation/saturation | and other human use (1) (e.g. forest), complex (1) nd corridor (1) on. Score one or dbl check. nundated/saturated (4) |
| 1 | 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (Seasonally saturated in Seasonally saturated in Seasonally saturated in Seasonally saturated in None or none apparent (12) Check all disturbances observed | (2) n upper 30cm (12in) (1) |
| | Recovered (7) Recovering (3) Recent or no recovery (1) Recent or no recovery (1) ditch point source (nonstorm filling/grading road bed/RR track dredging stormwater input other Jancul | |
| 13 39 | Metric 4. Habitat Alteration and Development. | |
| mex 20 pts. subtotal | 4a. Substrate disturbance. Score one or double check and average. None or none apparent (4) Recovering (2) Recent or no recovery (1) 4b. Habitat development. Select only one and assign score. Excellent (7) Very good (6) | |
| 3 | Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) 4c. Habitat alteration. Score one or double check and average. | |
| 39 subtotal this pa | Recovering (3) Recent or no recovery (1) Rec | ll l |

| ORAM v. 5.0 Field Form Quantitative R | katıng |
|---------------------------------------|--------|
|---------------------------------------|--------|

| Site: $oldsymbol{arEpsilon}$ | VPC | 001 Wetland H R | ater(s): KC | .5MH Date: $11/21/0$ |
|------------------------------|--------------|--|---------------------------|--|
| · | 39 | | | · · · |
| 0 | 39 | Metric 5. Special We | tlands. | |
| max 10 pts. | subtotal | Check all that apply and score as indicated. | | |
| | 0 | Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetland Lake Erie coastal/tributary wetland Lake Plain Sand Prairies (Oak Ope | -restricted hydrology (5) | 10) |
| | | Relict Wet Praires (10) | | |
| | | Known occurrence state/federal the | - | • • • |
| | | Significant migratory songbird/water Category 1 Wetland. See Question | - · | • |
| 0 | 10 | Category I Welland. See Question | n i Quantauve Raung (- n | u) |
| 5 | 1 <i>4</i> L | Metric 6. Plant comm | nunities inte | erspersion, microtopography. |
| max 20 pts. | subtotal | 6a. Wetland Vegetation Communities. | Vegetation Communit | |
| mar 20 pta. | 340.000 | Score all present using 0 to 3 scale. | 0 | Absent or comprises <0.1ha (0.2471 acres) contiguous area |
| | | Aquatic bed | 1 | Present and either comprises small part of wetland's |
| | _ | √ Emergent | | vegetation and is of moderate quality, or comprises a |
| | 2 | Shrub | | significant part but is of low quality |
| | O. | Forest | 2 | Present and either comprises significant part of wetland's |
| | | Mudflats | | vegetation and is of moderate quality or comprises a small |
| | | Open water | • | part and is of high quality |
| | | Other | 3 | Present and comprises significant part, or more, of wetland's |
| | | 6b. horizontal (plan view) Interspersion. | | vegetation and is of high quality |
| | | Select only one. High (5) | Narrative Description | of Vocatation Quality |
| | _ | Moderately high(4) | low | Low spp diversity and/or predominance of nonnative or |
| | | Moderate (3) | 1011 | disturbance tolerant native species |
| | | Moderately low (2) | mod | Native spp are dominant component of the vegetation, |
| | | Low (1) | | although nonnative and/or disturbance tolerant native spp |
| | | None (0) | | can also be present, and species diversity moderate to |
| | | 6c. Coverage of invasive plants. Refer | | moderately high, but generallyw/o presence of rare |
| | | to Table 1 ORAM long form for list. Add | | threatened or endangered spp |
| | | or deduct points for coverage | high | A predominance of native species, with nonnative spp |
| | , | Extensive >75% cover (-5) Moderate 25-75% cover (-3) | | and/or disturbance tolerant native spp absent or virtually absent, and high spp diversity and often, but not always, |
| | { | Sparse 5-25% cover (-1) | | the presence of rare, threatened, or endangered spp |
| | | Nearly absent <5% cover (0) | | are presence of tare, uncertained, or critical gold app |
| | | X Absent (1) | Mudflat and Open Wa | ter Class Quality |
| | | 6d. Microtopography. | 0 | Absent <0.1ha (0.247 acres) |
| | | Score all present using 0 to 3 scale. | 11 | Low 0.1 to <1ha (0.247 to 2.47 acres) |
| | | Vegetated hummucks/tussucks | 2 | Moderate 1 to <4ha (2.47 to 9.88 acres) |
| | | Coarse woody debris >15cm (6in) | 3 | High 4ha (9.88 acres) or more |
| | 7) | Standing dead >25cm (10in) dbh | | |
| | U | Amphibian breeding pools | Microtopography Cov | |
| | | | <u> </u> | Absent 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 |
| | M | od. 2 | 3 | Present in moderate or greater amounts |
| | . //(| 0 a . ~ | | and of highest quality |
| 42 | GRAN | D TOTAL(max 100 pts) | | |

| ORAM v. 5.0 | O Field Form Q | uantitative Rating 🗶 🗸 | POOI | | |
|-------------|----------------------------|---|---|---|--|
| Site: (| ULYTAI | rd 13 | | SMH | Date: ///2//C |
| 2 | 2-N | letric 1. Wetla | ınd Area (size). | | , |
| max 6 pts. | subtotal Sel | ect one size class and assign >50 acres (>20.2ha) (0 25 to <50 acres (10.1 10 to <25 acres (4 to < 3 to <10 acres (1.2 to 0.3 to <3 acres (0.12 to 0.1 to <0.3 acres (0.04 <0.1 acres (0.04ha) (0 | 6 pts) to <20.2ha) (5 pts) <10.1ha) (4 pts) <4ha) (3 pts) o <1.2ha) (2pts) I to <0.12ha) (1 pt) | | • |
| 7 | 9 N | letric 2. Uplar | nd buffers and sur | rounding land | d use. |
| max 14 pts. | subtotal 2a. | Calculate average buffer wi WIDE. Buffers average MEDIUM. Buffers average NARROW. Buffers average VERY NARROW. Buffers average | odth. Select only one and assign score. Je 50m (164ft) or more around wetland Je 25m to <50m (82 to <164ft) arour Je 25m to <50m (32ft to <82ft) arour Je 32ft to <82ft) arour Je 32ft around wet | Do not double check. perimeter (7) nd wetland perimeter (4) und wetland perimeter (1) and perimeter (0) | |
| | 3 | VERY LOW. 2nd grov LOW. Old field (>10 y MODERATELY HIGH | d use. Select one or double check and with or older forest, prairie, savannah, w ears), shrubland, young second growth . Residential, fenced pasture, park, con al, open pasture, row cropping, mining. | rildlife area, etc. (7) n forest. (5) nservation tillage, new fallov | v field. (3) |
| 16.5 | | letric 3. Hydro | | | |
| max 30 pts. | A | | (5) surface water (3) er (lake or stream) (5) ect only one and assign score. | Part of wetland/u Part of riparian or 3d. Duration inundation/sa | in (1) lake and other human use (1) pland (e.g. forest), complex (1) r upland corridor (1) sturation. Score one or dbl check. ently inundated/saturated (4) |
| | / 3e. | | rologic regime. Score one or double c | Seasonally inund Seasonally satura neck and average. | |
| | 7 | None or none apparer Recovered (7) Recovering (3) Recent or no recovery | ditch tile | point source (non filling/grading road bed/RR trac | |
| 12 | 375 N | letric 4 Hahit | at Alteration and I |)evelopment | |
| mex 20 pts. | 3 | None or none apparer Recovered (3) Recovering (2) Recent or no recovery Habitat development. Sele | nt (4) | | |
| | 3 | Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) Habitat alteration. Score or | ne or double check and average. | | ··· |
| . | 37.5 subtotal this page | None or none apparer Recovered (6) Recovering (3) Recent or no recovery | mowing grazing | shrub/sapling ren herbaceous/aqua sedimentation dredging farming nutrient enrichme | atic bed removal |

| Site: EVP DOI WE | etland B F | Rater(s): KC | 5mH | Date: 11/21/08 |
|--|--|------------------------------|--|------------------------------|
| 37.5 subtotal this page | · | - | - | |
| 0 37,5 Metri | ic 5. Special W | etlands. | | |
| | that apply and score as indicated | | | |
| | Bog (10) Fen (10) Old growth forest (10) Mature forested wetland (5) Lake Erie coastal/tributary wetlar Lake Erie coastal/tributary wetlar Lake Plain Sand Prairies (Oak O | d-restricted hydrology (5) | 0) | |
| | Relict Wet Praires (10) Known occurrence state/federal t | breatened or endangered s | eneries (10) | |
| | Significant migratory songbird/wa | _ | • | |
| | Category 1 Wetland. See Questi | on 1 Qualitative Rating (-10 | 0) | |
| 1 4 11.5 Metri | c 6. Plant com | munities, inte | erspersion, mici | rotopography. |
| 1 | nd Vegetation Communities. | Vegetation Communit | • | |
| | resent using 0 to 3 scale. | 0 | Absent or comprises <0.1ha (0.2 | |
| | Aquatic bed | 1 | Present and either comprises sn | • |
| / | Emergent | | vegetation and is of moderate | |
| <i>(</i> / | Shrub | | significant part but is of low qu | ····· |
| • | Forest | 2 | Present and either comprises sig | - • |
| — | Mudflats | | vegetation and is of moderate | quality or comprises a small |
| | Open water | 3 | part and is of high quality | st part or more of watend's |
| t-mant | Other ntal (plan view) Interspersion. | 3 | Present and comprises significa | • • • |
| Select only | | | vegetation and is of high quali | Ly |
| | - one. High (5) | Narrative Description | of Vegetation Quality | |
|) | Moderately high(4) | low | Low spp diversity and/or predom | ninance of nonnative or |
| · • • • • • • • • • • • • • • • • • • • | Moderate (3) | | disturbance tolerant native spe | |
| , — | Moderately low (2) | mod | Native spp are dominant compo | |
| Ţ. | .ow (1) | | although nonnative and/or dist | rurbance tolerant native spp |
| 4 | Nane (0) | | can also be present, and spec | ies diversity moderate to |
| 6c. Covera | age of invasive plants. Refer | | moderately high, but generally | w/o presence of rare |
| to Table 1 | ORAM long form for list. Add | | threatened or endangered spp | <u> </u> |
| or deduct p | points for coverage | high | A predominance of native specie | es, with nonnative spp |
| | Extensive >75% cover (-5) | | and/or disturbance tolerant na | tive spp absent or virtually |
| | Moderate 25-75% cover (-3) | | absent, and high spp diversity | • |
| | Sparse 5-25% cover (-1) | · | the presence of rare, threatene | ed, or endangered spp |
| | Vearly absent <5% cover (0) Absent (1) | Mudflat and Open Wat | tor Class Quality | |
| 6d. Microto | • • | 0 | Absent <0.1ha (0.247 acres) | |
| | resent using 0 to 3 scale. | 1 | Low 0.1 to <1ha (0.247 to 2.47 a | acres) |
| | /egetated hummucks/tussucks | 2 | Moderate 1 to <4ha (2.47 to 9.8 | |
| | Coarse woody debris >15cm (6in | | High 4ha (9.88 acres) or more | |
| | Standing dead >25cm (10in) dbh | | | - |
| ^_ | Amphibian breeding pools | Microtopography Cov | er Scale | |
| | | 0 | Absent | |
| | | 1 | Present very small amounts or if | more common |
| | | | of marginal quality | |
| | | 2 | Present in moderate amounts, b | - |
| 22 | | | quality or in small amounts of t | |
| 1110d 2 | | 3 | Present in moderate or greater a and of highest quality | amounts |
| 41.5 GRAND TOTAL | L(max 100 pts) | | | |

| Site: E | VPØ. | Ol Wetland H Rater(s): S. Harrelson, Date: 6/17/08 |
|-------------|--------------------|--|
| Ø | ϕ | Metric 1. Wetland Area (size). |
| max 6 pts. | | 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) |
| | C/ | 3 to <10 acres (1.2 to <4ha) (3 pts) |
| | Ψ | 0.3 to <3 acres (0.12 to <1.2ha) (2pts) |
| | | 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) X <0.1 acres (0.04ha) (0 pts) |
| | 2 | 71 3.1 2000 (0.0 11.0) (0 p.c.) |
| 1/ | 1/4 | Wetric 2. Upland buffers and surrounding land use. |
| max 14 pts. | subtotal 2 | a. 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) |
| | T | NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) |
| | | VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) |
| | 2 | b. Intensity of surrounding land use. Select one or double check and average. |
| | £er- | VERY LOW. 2nd growth or older forest, prairie, savannah, wildlife area, etc. (7) X LOW. Old field (>10 years), shrubland, young second growth forest. (5) |
| | 5 | MODERATELY HIGH. Residential, fenced pasture, park, conservation tillage, new fallow field. (3) |
| | | HIGH. Urban, industrial, open pasture, row cropping, mining, construction. (1) |
| 14 | 26 | Metric 3. Hydrology. |
| max 30 pts. | | ia. Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply. |
| • | • | High pH groundwater (5) 100 year floodplain (1) |
| | 4 | Other groundwater (3) Precipitation (1) Between stream/lake and other human use (1) Part of wetland/upland (e.g. forest), complex (1) |
| | 1 | X Seasonal/Intermittent surface water (3) Yeart of riparian or upland corridor (1) |
| | | Perennial surface water (lake or stream) (5) 3d. Duration inundation/saturation. Score one or dbl check. |
| | 3 | c. Maximum water depth. Select only one and assign score. Semi- to permanently inundated/saturated (4) >0.7 (27.6in) (3) Regularly inundated/saturated (3) |
| | 1 | 0.4 to 0.7m (15.7 to 27.6in) (2) Seasonally inundated (2) |
| | • | X <0.4m (<15.7in) (1) X Seasonally saturated in upper 30cm (12in) (1) |
| | 3 | Se. Modifications to natural hydrologic regime. Score one or double check and average. |
| | - | None or none apparent (12) X Recovered (7) Check all disturbances observed point source (nonstormwater) |
| | 7 | Recovering (3) title filling/grading |
| | , | Recent or no recovery (1) dike road bed/RR track |
| | | weir dredging |
| | | stormwater input other |
| 19.5 | 35.5 | Metric 4. Habitat Alteration and Development. |
| max 20 pts. | subtotal 4 | As. Substrate disturbance. Score one or double check and average. |
| | | None or none apparent (4) |
| | 2 | X Recovered (3) Recovering (2) |
| | | Recent or no recovery (1) |
| | 4 | b. Habitat development. Select only one and assign score. |
| | | Excellent (7) Very good (6) |
| | \sim | Good (5) |
| | 1 | Moderately good (4) |
| | | Fair (3) Poor to fair (2) |
| | | Poor (1) |
| | • | 4c. Habitat alteration. Score one or double check and average. |
| | ,1 - | None or none apparent (9) Check all disturbances observed |
| | 4.5 | Recovered (6) mowing shrub/sapling removal Recovering (3) grazing herbaceous/aquatic bed removal |
| | | Recent or no recovery (1) Clearcutting sedimentation |
| | 25- | selective cutting dredging woody debns removal farming |
| | 35.5 | woody debris removal farming toxic pollutants nutrient enrichment |
| : | sublotal this page | |

| Site: | EVPÇ | 001 W | etland H | Rater(s): S, / | Harrelson, nowell | Date: 4/17/0 |
|-------------|------------------|------------------------|--|------------------------------|--|----------------------------------|
| | | 7 | | 14, C | rowell | 7 |
| | 35,5 | | | · | , | |
| | subtotal this pa | | | | | |
| cd | | آ | | | | |
| Ψ | 35,5 | Metric | Special W | /etlands. | | |
| max 10 pts. | subtotal | Check all that | apply and score as indicate | ed. | | |
| | | Bog | | | | |
| | | Fen | • • | | | |
| | | | growth forest (10) are forested wetland (5) | | | |
| | T | | | and-unrestricted hydrology | (10) | |
| | Ψ | | | and-restricted hydrology (5 | | |
| | | } | Plain Sand Prairies (Oak | | • | |
| | | Relia | t Wet Praires (10) | | | |
| | | 1—1 | | al threatened or endangere | | |
| | | | | water fowl habitat or usage | , , | |
| <u> </u> | | Cate | gory 1 Wetland. See Que | stion 1 Qualitative Rating (| -10) | |
| 2 | 137.5 | Motric | 6 Plant con | omunities in | terspersion, mid | crotopography |
| | 0,5 | m6 | | | | notopograpiny. |
| max 20 pts. | subtotal | | egetation Communities. In tusing 0 to 3 scale. | Vegetation Commu | | 0.2471 acres) contiguous area |
| | | | atic bed | 1 | Present and either comprises | |
| | | · | rgent | | vegetation and is of modera | · |
| | } | Shru | - | | significant part but is of low | quality |
| | 1 | Fore | st | 2 | Present and either comprises | significant part of wetland's |
| | | Mud | flats | |] - | te quality or comprises a small |
| | | | n water | | part and is of high quality | |
| | | Othe | | 3 | • - | cant part, or more, of wetland's |
| | | | (plan view) Interspersion. | | vegetation and is of high qu | ality |
| | | Select only on High | | Narrative Description | on of Vegetation Quality | |
| | | | erately high(4) | low | Low spp diversity and/or pred | ominance of nonnative or |
| | ϕ | | erate (3) | | disturbance tolerant native s | species |
| | Ψ | Mod | erately low (2) | mod | Native spp are dominant com | ponent of the vegetation, |
| | | Low | (1) | | | listurbance tolerant native spp |
| | | XNone | • | | can also be present, and sp | |
| | | _ | of invasive plants. Refer | | rnoderately high, but generathreatened or endangered s | |
| | | | AM long form for list. Add ts for coverage | high | A predominance of native spe | |
| | | | nsive >75% cover (-5) | ingit | | native spp absent or virtually |
| | | | erate 25-75% cover (-3) | | | ity and often, but not always, |
| | - 1 | | se 5-25% cover (-1) | | the presence of rare, threate | ened, or endangered spp |
| | | Near | rly absent <5% cover (0) | | | |
| | | استنبا | ent (1) | Mudflat and Open V | | |
| | | 6d. Microtopo | | 0 | Absent <0.1ha (0.247 acres) | |
| | | | ent using 0 to 3 scale. | 1 | Low 0.1 to <1ha (0.247 to 2.4 | |
| | - | <u> </u> | etated hummucks/tussucks | | Moderate 1 to <4ha (2.47 to 9) High 4ha (9.88 acres) or more | |
| | q | | rse woody debris >15cm (6 ding dead >25cm (10in) di | | Friight His (8.00 acres) of Indie | * |
| | 7 | | hibian breeding pools | Microtopography C | over Scale | |
| | | I | | 0 | Absent | |

Mod. 2

37.5 GRAND TOTAL(max 100 pts)

2

3

Present very small amounts or if more common

Present in moderate amounts, but not of highest quality or in small amounts of highest quality

Present in moderate or greater amounts

of marginal quality

and of highest quality

ORAM v. 5.0 Field Form Quantitative Ratin

| Site: £ | -VP Ø | Wetland I Rater(s): S. Harrelson, Date: 6/17/08 |
|-------------|--------------------|---|
| 7 | 7 | H. CIOWEII |
| <i>d</i> - | | Metric 1. Wetland Area (size). |
| max 6 pts. | subtotal S | elect 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) |
| | 2 | 3 to <10 acres (1.2 to <4ha) (3 pts) X 0.3 to <3 acres (0.12 to <1.2ha) (2pts) |
| | | 0.1 to <0.3 acres (0.04 to <0.12ha) (1 pt) |
| <i>ş</i> | , | <0.1 acres (0.04ha) (0 pts) |
| 4 | 6 V | Metric 2. Upland buffers and surrounding land use. |
| max 14 pts. | subtotal 2 | a. 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) |
| | J | MEDIUM. Buffers average 25m to <50m (82 to <164ft) around wetland perimeter (4) |
| | 1 | NARROW. Buffers average 10m to <25m (32ft to <82ft) around wetland perimeter (1) VERY NARROW. Buffers average <10m (<32ft) around wetland perimeter (0) |
| | 21 | b. 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) |
| | 3 | 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) |
| 22 | 28 | Metric 3. Hydrology. |
| max 30 pts. | | a. Sources of Water. Score all that apply. 3b. Connectivity. Score all that apply. |
| | 0 | Other groundwater (3) Between stream/lake and other human use (1) |
| | 9 | Period Wedahadahada (s.g., soliday, complex (s) Part of riparian or upland corridor (1) |
| | 30 | Perennial surface water (lake or stream) (5) 3d. Duration inundation/saturation. Score one or dbl check. C. Maximum water depth. Select only one and assign score. |
| | 2 | >0.7 (27.6in) (3) > 0.4 to 0.7m (15.7 to 27.6in) (2) Regularly inundated/saturated (3) Seasonally inundated (2) |
| | 6 | <0.4m (<15.7in) (1) Seasonally saturated in upper 30cm (12in) (1) |
| | 3 | Modifications to natural hydrologic regime. Score one or double check and average. None or none apparent (12) Check all disturbances observed |
| | 4 | X Recovered (7) ditch point source (nonstorπwater) X Recovering (3) tile filling/grading |
| |) | Recent or no recovery (1) dike road bed/RR track |
| | | weir dredging stormwater input other |
| , | 011 | |
| 6 | | Metric 4. Habitat Alteration and Development. |
| max 20 pts. | subtotal 4 | a. Substrate disturbance. Score one or double check and average. None or none apparent (4) |
| | , 3 | X Recovered (3) Recovering (2) |
| | 1 | Recent or no recovery (1) b. Habitat development. Select only one and assign score. |
| | 4 | Excellent (7) |
| | | Very good (6) Good (5) |
| | 1 | Moderately good (4) Fair (3) |
| | | Poor to fair (2) X Poor (1) |
| | 4 | c. Habitat alteration. Score one or double check and average. |
| | 2 | None or none apparent (9) Check all disturbances observed Recovered (6) shrub/sapling removal |
| | <i>V</i> - | ス Recovering (3) grazing herbaceous/aquatic bed removal Recent or no recovery (1) clearcutting sedimentation |
| | 24 | selective cutting dredging woody debris removal farming |
| | 27 | toxic pollutants rutrient enrichment |
| : | subtotal this page | |

| Site: EVPQ | BOI Wetland I RE | ater(s): <i>S.</i> / | Harrelson, Prowell | Date: 4 / 17/4 |
|----------------------|--|-----------------------|---|---------------------------------------|
| | | 14.1 | murll | / / |
| 24 | | // (| | , |
| 127 | | | | |
| subtotal this p | age | | | |
| 14 21 | | | | |
| 0 124 | Metric 5. Special We | tlands. | | |
| max 10 pts. sublotal | Check all that apply and score as indicated. | | | |
| • | Bog (10) | | | |
| | Fen (10) | | | |
| | Old growth forest (10) | | | |
| | Mature forested wetland (5) | | | |
| B | Lake Erie coastal/tributary wetland | | | |
| Ψ | Lake Erie coastal/tributary wetland- | | 5) | |
| • | Lake Plain Sand Prairies (Oak Ope Relict Wet Praires (10) | mings) (10) | | |
| | Known occurrence state/federal thr | reatened or endangere | ed species (10) | |
| | Significant migratory songbird/water | _ | , , , | |
| | Category 1 Wetland. See Question | | | |
| 0 09 | | | | <u>.</u> |
| 3 3t | Metric 6. Plant comn | nunities, ir | nterspersion, mic | rotopography. |
| max 20 pts. subtotal | 6a. Wetland Vegetation Communities. | Vegetation Commu | = | |
| | Score all present using 0 to 3 scale. | 0 | Absent or comprises <0.1ha (0 | 0.2471 acres) contiguous area |
| | / Aquatic bed | 1 | Present and either comprises | small part of wetland's |
| | Emergent | | vegetation and is of moderat | |
| 1 | Shrub | | significant part but is of low of | |
| 1 | Forest | 2 | Present and either comprises | · · · · · · · · · · · · · · · · · · |
| | Mudflats Open water | | part and is of high quality | te quality or comprises a small |
| | Other | 3 | Present and comprises signific | cant part, or more, of wetland's |
| | 6b. horizontal (plan view) Interspersion. | _ | vegetation and is of high qua | |
| | Select only one. | | | |
| | High (5) | Narrative Descript | on of Vegetation Quality | |
| | Moderately high(4) | low | Low spp diversity and/or predo | ominance of nonnative or |
| · m | Moderate (3) | | disturbance tolerant native s | ' |
| 4 | Moderately low (2) | mod | Native spp are dominant comp | |
| , | Low (1) | | <u> </u> | isturbance tolerant native spp |
| | None (0) | | can also be present, and spe | • |
| | 6c. Coverage of invasive plants. Refer | | moderately high, but general threatened or endangered sp | |
| | to Table 1 ORAM long form for list. Add or deduct points for coverage | high | A predominance of native spec | · |
| | Extensive >75% cover (-5) | Tilgi. | and/or disturbance tolerant n | |
| | / Moderate 25-75% cover (-3) | | absent, and high spp diversit | · · |
| (2 | Sparse 5-25% cover (-1) | | the presence of rare, threate | ned, or endangered spp |
| V | X Nearly absent <5% cover (0) | | | |
| | Absent (1) | Mudflat and Open | Water Class Quality | |
| | 6d. Microtopography. | 0 | Absent <0.1ha (0.247 acres) | |
| | Score all present using 0 to 3 scale. | 1 | Low 0.1 to <1ha (0.247 to 2.47 | |
| | Vegetated hummucks/tussucks | 2 | Moderate 1 to <4ha (2.47 to 9 | |
| | Coarse woody debris >15cm (6in) Standing dead >25cm (10in) dbh | 3 | High 4ha (9.88 acres) or more | · · · · · · · · · · · · · · · · · · · |
| d | Standing dead >25cm (10in) dbh Amphibian breeding pools | Microtopography (| Cover Scale | |
| | Proposition of Secting Pools | 0 | Absent | |
| | | 1 | Present very small amounts or | r if more common |

Mod. 2

GRAND TOTAL(max 100 pts)

2

3

of marginal quality

and of highest quality

Present in moderate amounts, but not of highest quality or in small amounts of highest quality

Present in moderate or greater amounts

| Site: EVPØ01 | Wetland I | Rater(s): S. | Harrelson, | Date: 6 /17/08 |
|---------------------------------|--|---|---|---|
| 2 2 N | etric 1. Wetland | Area (size). | H. Crowell | , , |
| | ect one size class and assign score >50 acres (>20.2ha) (6 pts) 25 to <50 acres (10.1 to <20. 10 to <25 acres (4 to <10.1ha 3 to <10 acres (1.2 to <4ha) (0.3 to <3 acres (0.12 to <1.2h 0.1 to <0.3 acres (0.04 to <0. <0.1 acres (0.04ha) (0 pts) | 2ha) (5 pts)) (4 pts) 3 pts) a) (2pts) | | |
| 1 3 M | letric 2. Upland b | uffers and s | urrounding land | use. |
| max 14 pts. subtotal 2a. | Calculate average buffer width. Se WIDE. Buffers average 50m MEDIUM. Buffers average 2: NARROW. Buffers average X VERY NARROW. Buffers average intensity of surrounding land use. VERY LOW. 2nd growth or control LOW. Old field (>10 years), see Name of the control of the contro | ect only one and assign s (164ft) or more around we fm to <50m (82 to <164ft) 10m to <25m (32ft to <82ft erage <10m (<32ft) around Select one or double chec Ider forest, prairie, savann shrubland, young second g ential, fenced pasture, par | core. Do not double check. tland perimeter (7) around wetland perimeter (4) t) around wetland perimeter (1) I wetland perimeter (0) k and average. ah, wildlife area, etc. (7) rowth forest. (5) k, conservation tillage, new fallow fi | |
| 11.5 14.5 M | — letric 3. Hydrolog | jy. | | |
| max 30 pts. subtotal 3a. | Sources of Water. Score all that an High pH groundwater (5) Other groundwater (3) Precipitation (1) Seasonal/Intermittent surface Perennial surface water (lake Maximum water depth. Select only >0.7 (27.6in) (3) 0.4 to 0.7m (15.7 to 27.6in) (2 | water (3) or stream) (5) one and assign score. | Part of wetland/upla Part of riparian or up 3d. Duration inundation/satur Semi- to permanent Regularly inundated Seasonally inundated | (1) e and other human use (1) nd (e.g. forest), complex (1) oland corridor (1) ation. Score one or dbl check. ly inundated/saturated (4) /saturated (3) |
| 3e. | X <0.4m (<15.7in) (1) Modifications to natural hydrologic | | ole check and average. | d in upper 30cm (12in) (1) |
| 5 | None or none apparent (12) X Recovered (7) Recovering (3) Recent or no recovery (1) | Check all disturbances of ditch tile dike weir stormwater input | point source (nonsto filling/grading road bed/RR track dredging . other Jan Cu | omwater) Llfure |
| 6 20.5 M | letric 4. Habitat A | Alteration and | d Development. | |
| max 20 pts. subtotal 4a. 2 4b. | Substrate disturbance. Score one None or none apparent (4) Recovered (3) Recovering (2) Recent or no recovery (1) Habitat development. Select only of Excellent (7) Very good (6) Good (5) Moderately good (4) Fair (3) Poor to fair (2) Poor (1) Habitat alteration. Score one or do | or double check and avera | • | |
| 3 20,5 subtotal this page | None or none apparent (9) Recovered (6) Recovering (3) Recent or no recovery (1) | Check all disturbances of mowing grazing clearcutting selective cutting woody debris remotoxic pollutants | shrub/sapling remov herbaceous/aquatic sedimentation dredging | 11: |

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3/19/2013 4:36:15 PM

in

Case No(s). 13-0360-EL-BGA

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