

**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020) **Please do not edit document.**

Wetland ID: Stormwater Pond

PNDI # (for PA): \_\_\_\_\_

General Info

Property/Project Name Old Mill Road  
 Coordinates 41.120066, -74.133449 Project Type Commercial Development  
 Entity Requesting Phase 1 Survey IV2 Rockland Logistics Center LLC  
 County/Township/Municipality Rockland/Suffern  
 Lead Surveyor Greg Fleischer Affiliation Capital Environmental Consultants, Inc.  
 Other Assistants Present Kelly DeGuzman, Shannon Rattigan

Date/Condition

Date of Survey 8/12/2021 Time In 3:00 pm Time Out 3:30 pm Air Temp. 90 F ° C°  
 Last Precipitation  < 24 hours  1-7 days  > 1 week  unknown Drought conditions?  Yes  No  Unknown  
 Drought Index\*<sup>1</sup> (Circle): none D0 D1 D2 D3 D4 Wetland Photos Taken  Yes  No (Provide photo location map)  
 Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Info

Wetland Size 2.23 acres, if known # Wetlands w/in Project Area<sup>2</sup> 6  
 Estimate wetland size (acres)  < 0.1  0.1 - 0.5  0.5 - 1  1 - 2  2 - 4  5+  10+  
 Estimate % Canopy Cover\*<sup>3</sup>  0%  ≤ 5  6-20  21-40  41-60  > 60  
**Hydrology and Soils** (check all that apply): **use additional pages to further discuss pertinent general wetland information**  
 Springs/Seeps  Springhouse  Trib/Stream  Pond  Stormwater  Iron Bacteria  Watercress  
 Water Visible on Surface Evidence of Flooding  Yes  No If yes, ( Seasonal Flooding<sup>4</sup>  Routine Flooding<sup>5</sup>)  
 Rivulets (\_\_\_\_ inches deep)  Subsurface Tunnel/Rivulets  Tire Ruts (\_\_\_\_ inches deep)  
 Small Puddles/Depressions (\_\_\_\_ inches deep)  Saturated soils present? If yes, year-round?  Likely  Unlikely  Unk  
 Yes  No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?  
 The man-made stormwater pond is currently fed by stormwater runoff from surrounding mowed lawns and pavement. It was historically fed via upland runoff as well as Tributary 3 which historically drained to the stormwater pond via a culvert. The culvert is completely filled with large rocks and sediment. The stormwater pond has a drain pipe that can be controlled via a manual valve next to the pond.  
 Estimate time period (in years) of disturbance\*:  ≤ 5  6-10  11-20  > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:

<sup>1</sup> (\*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.  
<sup>2</sup> Each wetland must have a separate Phase 1 habitat assessment data form completed.  
<sup>3</sup> Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.  
<sup>4</sup> Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.  
<sup>5</sup> Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Yes  No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

The grass lawn surrounding the majority of the man-made stormwater pond is routinely mowed throughout the growing season (March through October).

Wetland Info

Rate (scale of 1-4) level of ~~vegetation disturbance~~\* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed **3. Moderate to high grazing or mowing** 4. Mowing occurs during bog turtle active season

Soil types present\*:

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0 acres

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	0	0	in.	in.
PSS Portion of Wetland:	0	0	in.	in.
PFO Portion of Wetland:	0	0	in.	in.
POW/PUB Portion of Wetland:	100	0	in.	in.

**CIRCLE all vegetation\* from list below that is dominant ( $\geq 20\%$  for each wetland type listed above) and add other species you observe that are not listed in table in the "notes" space provided below or in the extra table cells.**

Wetland Type/Vegetation

Alder Spp. <i>Alnus</i> spp.	Common Reed <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	Spicebush <i>Lindera benzoin</i>	<b>Willow spp. <i>Salix</i> spp.</b>
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	Dogwood Spp. <i>Cornus</i> spp.	Mile-A-Minute <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
American Elm <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	Multiflora Rose <i>Rosa multiflora</i>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	Woolly Bulrush or Woolgrass <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Poison Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	Skunk Cabbage <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
Cattail <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	Red Maple <i>Acer rubrum</i>	Soft Rush or Common Rush <i>Juncus effusus</i>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	Japanese Stiltgrass <i>Microstegium vimineum</i>	Reed Canary Grass <i>Phalaris arundinacea</i>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

**Notes on additional plant species** (e.g., sedge, rush, grass, shrub, tree species):

Vegetation surrounding the stormwater pond consists of mowed lawn (inclusive of grass species, mugwort, birds-foot trefoil, and common milkweed), a thin line of sallow sedge (along a portion of the western edge) and a sparse linear array of trees and shrubs including black willow, tulip poplar, and Norway maple.

<sup>6</sup> No grazing, mowing, or burning is given a "2" rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):

The stormwater pond is surrounded by mowed lawn with a sparse linear array of trees and shrubs. The surrounding topography is relatively flat.

Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)?

- None of it – the entire wetland is within the property boundaries  
 Some of it – \_\_\_\_\_ Acres or \_\_\_\_\_% of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

- None of it  All of it  Part of it (\_\_\_\_ acres or \_\_\_\_% of the off-site portion)

Is there potential bog turtle habitat **within 300 feet\***?  Yes  No  Unk Habitat **off-site**?  Yes  No  Unk

If yes, how did you conclude this?

Species

Were any bog turtles observed?  Yes  No If yes, how many? \_\_\_\_\_  
 Other herps observed?  Yes  No If yes, which ones?

\*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

\*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

Lead Surveyor Opinion

- Yes  No  Unsure The **hydrology** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **soils** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **vegetation** criterion for bog turtle habitat is met.  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).  
 This wetland does **NOT** have potential bog turtle habitat.  **UNSURE** if suitable habitat is present.

**Notes** (How did you reach this opinion?):

The stormwater pond does not contain the hydrologic conditions, soils, or vegetation required to support bog turtle habitat.

**Lead Surveyor – please sign** below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.

Print Name Greg Fleischer Signature 

Date 8/12/2021

Contact Information gfleischer@capitalenviro.com

**\*\*Important\*\*** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

***Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range***

Wetland ID: Stormwater Pond

(Revised April 29, 2020)

**Additional space for notes, color photos, or maps/sketch of wetland** (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.

**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020) **Please do not edit document.**

Wetland ID: Wetland A

PNDI # (for PA): \_\_\_\_\_

General Info

Property/Project Name Old Mill Road

Coordinates 41.120066, -74.133449 Project Type Commercial Development

Entity Requesting Phase 1 Survey IV2 Rockland Logistics Center LLC

County/Township/Municipality Rockland/Suffern

Lead Surveyor Greg Fleischer Affiliation Capital Environmental Consultants, Inc.

Other Assistants Present Kelly DeGuzman, Shannon Rattigan

Date/Condition

Date of Survey 8/12/2021 Time In 11:00 am Time Out 1:00 pm Air Temp. 90 F ° C°

Last Precipitation  < 24 hours  1-7 days  > 1 week  unknown Drought conditions?  Yes  No  Unknown

Drought Index\*<sup>1</sup> (Circle): none D0 D1 D2 D3 D4 Wetland Photos Taken  Yes  No (Provide photo location map)

Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Size 12.13 acres, if known # Wetlands w/in Project Area<sup>2</sup> 6

Estimate wetland size (acres)  < 0.1  0.1 - 0.5  0.5 - 1  1 - 2  2 - 4  5+  10+

Estimate % Canopy Cover\*<sup>3</sup>  0%  ≤ 5  6-20  21-40  41-60  > 60

**Hydrology and Soils** (check all that apply): **use additional pages to further discuss pertinent general wetland information**

Springs/Seeps  Springhouse  Trib/Stream  Pond  Stormwater  Iron Bacteria  Watercress

Water Visible on Surface Evidence of Flooding  Yes  No If yes, ( Seasonal Flooding<sup>4</sup>  Routine Flooding<sup>5</sup>)

Rivulets (\_\_\_\_ inches deep)  Subsurface Tunnel/Rivulets  Tire Ruts (\_\_\_\_ inches deep)

Small Puddles/Depressions (\_\_\_\_ inches deep)  Saturated soils present? If yes, year-round?  Likely  Unlikely  Unk

Yes  No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?

Wetland Info

Estimate time period (in years) of disturbance\*:  ≤ 5  6-10  11-20  > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:

<sup>1</sup> (\*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.

<sup>2</sup> Each wetland must have a separate Phase 1 habitat assessment data form completed.

<sup>3</sup> Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.

<sup>4</sup> Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.

<sup>5</sup> Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Yes  No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

Wetland Info

Rate (scale of 1-4) level of vegetation disturbance\* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed<sup>6</sup> 3. Moderate to high grazing or mowing 4. Mowing occurs during bog turtle active season

Soil types present\*:

Holyoke-Rock outcrop complex, hilly and Udorthents, smoothed  
Mucky soils with silt loam texture observed

How much suitable habitat is in this wetland? Estimate acreage or percentage: Approximately 3 acres

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	<u>33</u>	<u>100</u>	<u>8 in.</u>	<u>16 in.</u>
PSS Portion of Wetland:	<u>33</u>	<u>60</u>	<u>6 in.</u>	<u>16 in.</u>
PFO Portion of Wetland:	<u>33</u>	<u>10</u>	<u>4 in.</u>	<u>12 in.</u>
POW/PUB Portion of Wetland:	<u>0</u>	<u>0</u>	<u>in.</u>	<u>in.</u>

**CIRCLE all vegetation\* from list below that is dominant (≥ 20% for each wetland type listed above) and add other species you observe that are not listed in table in the “notes” space provided below or in the extra table cells.**

Wetland Type/Vegetation

Alder Spp. <i>Alnus</i> spp.	Common Reed <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	Spicebush <i>Lindera benzoin</i>	Willow spp. <i>Salix</i> spp.
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	Dogwood Spp. <i>Cornus</i> spp.	Mile-A-Minute <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
American Elm <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	Multiflora Rose <i>Rosa multiflora</i>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	Woolly Bulrush or Woolgrass <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Poison Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	Skunk Cabbage <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
Cattail <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	Red Maple <i>Acer rubrum</i>	Soft Rush or Common Rush <i>Juncus effusus</i>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	Japanese Stiltgrass <i>Microstegium vimineum</i>	Reed Canary Grass <i>Phalaris arundinacea</i>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

**Notes on additional plant species** (e.g., sedge, rush, grass, shrub, tree species):

<sup>6</sup> No grazing, mowing, or burning is given a “2” rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Palustrine wetland with emergent vegetation, shrubs, and tree saplings. Topography is flat with tussock sedges providing micro-topography.

## Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)?

- None of it – the entire wetland is within the property boundaries  
 Some of it – \_\_\_\_\_ Acres or \_\_\_\_\_% of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

- None of it  All of it  Part of it (\_\_\_\_ acres or \_\_\_\_% of the off-site portion)

Is there potential bog turtle habitat **within 300 feet\***?  Yes  No  Unk Habitat **off-site**?  Yes  No  Unk

If yes, how did you conclude this?

## Species

Were any bog turtles observed?  Yes  No If yes, how many? \_\_\_\_\_  
 Other herps observed?  Yes  No If yes, which ones?

\*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

\*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

## Lead Surveyor Opinion

- Yes  No  Unsure The **hydrology** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **soils** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **vegetation** criterion for bog turtle habitat is met.  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).  
 This wetland does **NOT** have potential bog turtle habitat.  **UNSURE** if suitable habitat is present.

**Notes** (How did you reach this opinion?):

Wetland A contains the hydrology, soils, and vegetation required to support bog turtle habitat.

**Lead Surveyor – please sign** below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.

Print Name Greg Fleischer

Signature 

Date 8/12/2021

Contact Information gfleischer@capitalenviro.com

**\*\*Important\*\*** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

***Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range***

Wetland ID: Wetland A

(Revised April 29, 2020)

**Additional space for notes, color photos, or maps/sketch of wetland** (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.



**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020) **Please do not edit document.**

Wetland ID: Wetland B

PNDI # (for PA): \_\_\_\_\_

General Info

Property/Project Name Old Mill Road

Coordinates 41.120066, -74.133449 Project Type Commercial Development

Entity Requesting Phase 1 Survey IV2 Rockland Logistics Center LLC

County/Township/Municipality Rockland/Suffern

Lead Surveyor Greg Fleischer Affiliation Capital Environmental Consultants, Inc.

Other Assistants Present Kelly DeGuzman, Shannon Rattigan

Date/Condition

Date of Survey 8/12/2021 Time In 1:00 pm Time Out 1:30 pm Air Temp. 90 F ° C°

Last Precipitation  < 24 hours  1-7 days  > 1 week  unknown Drought conditions?  Yes  No  Unknown

Drought Index\*<sup>1</sup> (Circle) none D0 D1 D2 D3 D4 Wetland Photos Taken  Yes  No (Provide photo location map)

Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Size 1.11 acres, if known # Wetlands w/in Project Area<sup>2</sup> 6

Estimate wetland size (acres)  < 0.1  0.1 - 0.5  0.5 - 1  1 - 2  2 - 4  5+  10+

Estimate % Canopy Cover\*<sup>3</sup>  0%  ≤ 5  6-20  21-40  41-60  > 60

**Hydrology and Soils** (check all that apply): **use additional pages to further discuss pertinent general wetland information**

Springs/Seeps  Springhouse  Trib/Stream  Pond  Stormwater  Iron Bacteria  Watercress

Water Visible on Surface Evidence of Flooding  Yes  No If yes, ( Seasonal Flooding<sup>4</sup>  Routine Flooding<sup>5</sup>)

Rivulets (\_\_\_\_ inches deep)  Subsurface Tunnel/Rivulets  Tire Ruts (\_\_\_\_ inches deep)

Small Puddles/Depressions (\_\_\_\_ inches deep)  Saturated soils present? If yes, year-round?  Likely  Unlikely  Unk

Yes  No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?

Wetland Info

Berms and drainage ditches are located at the base of slope. Wetland B drains from the base of the slope via a culvert to Wetland A.

Estimate time period (in years) of disturbance\*:  ≤ 5  6-10  11-20  > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:

No. The wetland was devoid of herbaceous vegetation and hydrology suitable for bog turtle habitat. A large portion of the wetland and ditch was dominated by Phragmites australis.

<sup>1</sup> (\*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.

<sup>2</sup> Each wetland must have a separate Phase 1 habitat assessment data form completed.

<sup>3</sup> Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.

<sup>4</sup> Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.

<sup>5</sup> Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Yes  No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

Wetland Info

Rate (scale of 1-4) level of vegetation disturbance\* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed<sup>6</sup> 3. Moderate to high grazing or mowing 4. Mowing occurs during bog turtle active season

Soil types present\*:

Udorthents, smoothed

Dry mineral soils observed. Observed soils are not mucky and do not have a significant component of organic material.

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0 acres

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
PSS Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
PFO Portion of Wetland:	<u>100</u>	<u>0</u>	<u>0</u> in.	<u>0</u> in.
POW/PUB Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.

**CIRCLE all vegetation\* from list below that is dominant (≥ 20% for each wetland type listed above) and add other species you observe that are not listed in table in the “notes” space provided below or in the extra table cells.**

Wetland Type/Vegetation

Alder Spp. <i>Alnus</i> spp.	<b>Common Reed</b> <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	Spicebush <i>Lindera benzoin</i>	<b>Willow spp.</b> <i>Salix</i> spp.
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	Dogwood Spp. <i>Cornus</i> spp.	Mile-A-Minute <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
<b>American Elm</b> <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	Multiflora Rose <i>Rosa multiflora</i>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	Woolly Bulrush or Woolgrass <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Poison Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	Skunk Cabbage <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
Cattail <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	<b>Red Maple</b> <i>Acer rubrum</i>	Soft Rush or Common Rush <i>Juncus effusus</i>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	Japanese Stiltgrass <i>Microstegium vimineum</i>	Reed Canary Grass <i>Phalaris arundinacea</i>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

**Notes on additional plant species** (e.g., sedge, rush, grass, shrub, tree species):

Highbush blueberry, Eastern red cedar, sensitive fern (<20%), dogwood (<20%).

<sup>6</sup> No grazing, mowing, or burning is given a “2” rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Palustrine forested wetland containing a ditch running along the base of slope. The wetland slopes entirely to the north and seasonally drains to Wetland A.

## Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)?

- None of it – the entire wetland is within the property boundaries  
 Some of it – \_\_\_\_\_ Acres or \_\_\_\_\_% of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

- None of it  All of it  Part of it (\_\_\_\_ acres or \_\_\_\_% of the off-site portion)

Is there potential bog turtle habitat **within 300 feet\***?  Yes  No  Unk Habitat **off-site**?  Yes  No  Unk

If yes, how did you conclude this?

## Species

Were any bog turtles observed?  Yes  No If yes, how many? \_\_\_\_\_  
 Other herps observed?  Yes  No If yes, which ones? \_\_\_\_\_

\*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

\*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

## Lead Surveyor Opinion

- Yes  No  Unsure The **hydrology** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **soils** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **vegetation** criterion for bog turtle habitat is met.  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).  
 This wetland does **NOT** have potential bog turtle habitat.  **UNSURE** if suitable habitat is present.

**Notes** (How did you reach this opinion?):

Wetland B does not contain the hydrology, soils, or vegetation required to support bog turtle habitat.

**Lead Surveyor – please sign** below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.

Print Name Greg Fleischer

Signature 

Date 8/12/2021

Contact Information gfleischer@capitalenviro.com

**\*\*Important\*\*** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

***Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range***

Wetland ID: Wetland B

(Revised April 29, 2020)

**Additional space for notes, color photos, or maps/sketch of wetland** (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.

**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020) **Please do not edit document.**

Wetland ID: Wetland C

PNDI # (for PA): \_\_\_\_\_

General Info

Property/Project Name Old Mill Road  
 Coordinates 41.120066, -74.133449 Project Type Commercial Development  
 Entity Requesting Phase 1 Survey IV2 Rockland Logistics Center LLC  
 County/Township/Municipality Rockland/Suffern  
 Lead Surveyor Greg Fleischer Affiliation Capital Environmental Consultants, Inc.  
 Other Assistants Present Kelly DeGuzman, Shannon Rattigan

Date/Condition

Date of Survey 8/12/2021 Time In 1:30 pm Time Out 2:00 pm Air Temp. 90 F ° C°  
 Last Precipitation  < 24 hours  1-7 days  > 1 week  unknown Drought conditions?  Yes  No  Unknown  
 Drought Index\*<sup>1</sup> (Circle) none D0 D1 D2 D3 D4 Wetland Photos Taken  Yes  No (Provide photo location map)  
 Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Info

Wetland Size 1.74 acres, if known # Wetlands w/in Project Area<sup>2</sup> 6  
 Estimate wetland size (acres)  < 0.1  0.1 - 0.5  0.5 - 1  1 - 2  2 - 4  5+  10+  
 Estimate % Canopy Cover\*<sup>3</sup>  0%  ≤ 5  6-20  21-40  41-60  > 60  
**Hydrology and Soils** (check all that apply): **use additional pages to further discuss pertinent general wetland information**  
 Springs/Seeps  Springhouse  Trib/Stream  Pond  Stormwater  Iron Bacteria  Watercress  
 Water Visible on Surface Evidence of Flooding  Yes  No If yes, ( Seasonal Flooding<sup>4</sup>  Routine Flooding<sup>5</sup>)  
 Rivulets (\_\_\_\_ inches deep)  Subsurface Tunnel/Rivulets  Tire Ruts (\_\_\_\_ inches deep)  
 Small Puddles/Depressions (\_\_\_\_ inches deep)  Saturated soils present? If yes, year-round?  Likely  Unlikely  Unk  
 Yes  No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?  
 Estimate time period (in years) of disturbance\*:  ≤ 5  6-10  11-20  > 20  
 For ditches that may be present, is there bog turtle habitat? If yes, describe:

<sup>1</sup> (\*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.  
<sup>2</sup> Each wetland must have a separate Phase 1 habitat assessment data form completed.  
<sup>3</sup> Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.  
<sup>4</sup> Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.  
<sup>5</sup> Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Yes  No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

Wetland Info

Rate (scale of 1-4) level of vegetation disturbance\* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed<sup>6</sup> 3. Moderate to high grazing or mowing 4. Mowing occurs during bog turtle active season

Soil types present\*:

Udorthents, smoothed

Within the ephemeral stream channel, dry, loamy soils with little organic component

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0 acres

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
PSS Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
PFO Portion of Wetland:	<u>100</u>	<u>0</u>	<u>0</u> in.	<u>0</u> in.
POW/PUB Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.

**CIRCLE all vegetation\* from list below that is dominant (≥ 20% for each wetland type listed above) and add other species you observe that are not listed in table in the “notes” space provided below or in the extra table cells.**

Wetland Type/Vegetation

Alder Spp. <i>Alnus</i> spp.	<u>Common Reed</u> <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	Spicebush <i>Lindera benzoin</i>	Willow spp. <i>Salix</i> spp.
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	Dogwood Spp. <i>Cornus</i> spp.	<u>Mile-A-Minute</u> <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
American Elm <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	<u>Multiflora Rose</u> <i>Rosa multiflora</i>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	Woolly Bulrush or Woolgrass <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Poison Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	Skunk Cabbage <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
Cattail <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	<u>Red Maple</u> <i>Acer rubrum</i>	Soft Rush or Common Rush <i>Juncus effusus</i>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	<u>Japanese Stiltgrass</u> <i>Microstegium vimineum</i>	Reed Canary Grass <i>Phalaris arundinacea</i>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

**Notes on additional plant species** (e.g., sedge, rush, grass, shrub, tree species):

Virginia creeper, poison ivy, Japanese barberry, bull thistle, viburnum spp. (<20%), soft rush (<20%)

Dominant species: Mugwort, Japanese stiltgrass, common reed

<sup>6</sup> No grazing, mowing, or burning is given a “2” rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):  
 Palustrine forested wetland with a few open canopy areas. The wetland topography varies from flat to gently sloping north.

## Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)?

- None of it – the entire wetland is within the property boundaries  
 Some of it – \_\_\_\_\_ Acres or \_\_\_\_\_% of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

- None of it  All of it  Part of it (\_\_\_\_ acres or \_\_\_\_% of the off-site portion)

Is there potential bog turtle habitat **within 300 feet\***?  Yes  No  Unk Habitat **off-site**?  Yes  No  Unk

If yes, how did you conclude this?

## Species

Were any bog turtles observed?  Yes  No If yes, how many? \_\_\_\_\_  
 Other herps observed?  Yes  No If yes, which ones?

\*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

\*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

- Yes  No  Unsure The **hydrology** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **soils** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **vegetation** criterion for bog turtle habitat is met.  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).  
 This wetland does **NOT** have potential bog turtle habitat.  **UNSURE** if suitable habitat is present.

## Lead Surveyor Opinion

**Notes** (How did you reach this opinion?):

Wetland C does not contains the hydrology, soils, and vegetation required to support bog turtle habitat.

**Lead Surveyor – please sign** below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.

Print Name Greg Fleischer

Signature 

Date 8/12/2021

Contact Information gfleischer@capitalenviro.com

**\*\*Important\*\*** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

***Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range***

Wetland ID: Wetland C

(Revised April 29, 2020)

**Additional space for notes, color photos, or maps/sketch of wetland** (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.



**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020) **Please do not edit document.**

Wetland ID: Wetland D

PNDI # (for PA): \_\_\_\_\_

General Info

Property/Project Name Old Mill Road

Coordinates 41.120066, -74.133449 Project Type Commercial Development

Entity Requesting Phase 1 Survey IV2 Rockland Logistics Center LLC

County/Township/Municipality Rockland/Suffern

Lead Surveyor Greg Fleischer Affiliation Capital Environmental Consultants, Inc.

Other Assistants Present Kelly DeGuzman, Shannon Rattigan

Date/Condition

Date of Survey 8/12/2021 Time In 2:00 pm Time Out 2:30 pm Air Temp. 90 F ° C°

Last Precipitation  < 24 hours  1-7 days  > 1 week  unknown Drought conditions?  Yes  No  Unknown

Drought Index\*<sup>1</sup> (Circle) none D0 D1 D2 D3 D4 Wetland Photos Taken  Yes  No (Provide photo location map)

Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Size 0.17 acres, if known # Wetlands w/in Project Area<sup>2</sup> 6

Estimate wetland size (acres)  < 0.1  0.1 - 0.5  0.5 - 1  1 - 2  2 - 4  5+  10+

Estimate % Canopy Cover\*<sup>3</sup>  0%  ≤ 5  6-20  21-40  41-60  > 60

**Hydrology and Soils** (check all that apply): **use additional pages to further discuss pertinent general wetland information**

Springs/Seeps  Springhouse  Trib/Stream  Pond  Stormwater  Iron Bacteria  Watercress

Water Visible on Surface Evidence of Flooding  Yes  No If yes, ( Seasonal Flooding<sup>4</sup>  Routine Flooding<sup>5</sup>)

Rivulets (\_\_\_\_ inches deep)  Subsurface Tunnel/Rivulets  Tire Ruts (\_\_\_\_ inches deep)

Small Puddles/Depressions (\_\_\_\_ inches deep)  Saturated soils present? If yes, year-round?  Likely  Unlikely  Unk

Yes  No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?

The wetland formed in a small pocket between a road side slope and adjacent landscaped areas. Wetland D drains northwest to Wetland E via a culvert.

Wetland Info

Estimate time period (in years) of disturbance\*:  ≤ 5  6-10  11-20  > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:

<sup>1</sup> (\*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.

<sup>2</sup> Each wetland must have a separate Phase 1 habitat assessment data form completed.

<sup>3</sup> Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.

<sup>4</sup> Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.

<sup>5</sup> Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Yes  No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

The area is intermittently maintained through mowing and landscaping activity.

Wetland Info

Rate (scale of 1-4) level of ~~vegetation disturbance~~ \* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed<sup>6</sup> **3. Moderate to high grazing or mowing** 4. Mowing occurs during bog turtle active season

Soil types present\*:

Wethersfield gravelly silt loam, 15 to 25 percent slopes

Observed dry soils with little organic component

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0 acres

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	<u>100</u>	<u>0</u>	<u>0</u> in.	<u>0</u> in.
PSS Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
PFO Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
POW/PUB Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.

**CIRCLE all vegetation\* from list below that is dominant (≥ 20% for each wetland type listed above) and add other species you observe that are not listed in table in the “notes” space provided below or in the extra table cells.**

Wetland Type/Vegetation

Alder Spp. <i>Alnus</i> spp.	<b>Common Reed</b> <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	Spicebush <i>Lindera benzoin</i>	Willow spp. <i>Salix</i> spp.
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	<b>Dogwood Spp.</b> <i>Cornus</i> spp.	Mile-A-Minute <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
American Elm <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	Multiflora Rose <i>Rosa multiflora</i>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	<b>Woolly Bulrush or Woolgrass</b> <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Poison Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	Skunk Cabbage <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
<b>Cattail</b> <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	<b>Red Maple</b> <i>Acer rubrum</i>	Soft Rush or Common Rush <i>Juncus effusus</i>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	<b>Japanese Stiltgrass</b> <i>Microstegium vimineum</i>	Reed Canary Grass <i>Phalaris arundinacea</i>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

**Notes on additional plant species** (e.g., sedge, rush, grass, shrub, tree species):

Deer-tongue grass, birds-foot trefoil, mugwort

<sup>6</sup> No grazing, mowing, or burning is given a “2” rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Emergent wetland with an open canopy. The wetland slopes gently to the north.

## Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)?

- None of it – the entire wetland is within the property boundaries  
 Some of it – \_\_\_\_\_ Acres or \_\_\_\_\_% of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

- None of it  All of it  Part of it (\_\_\_\_ acres or \_\_\_\_% of the off-site portion)

Is there potential bog turtle habitat **within 300 feet\***?  Yes  No  Unk Habitat **off-site**?  Yes  No  Unk

If yes, how did you conclude this?

## Species

Were any bog turtles observed?  Yes  No If yes, how many? \_\_\_\_\_  
 Other herps observed?  Yes  No If yes, which ones? \_\_\_\_\_

\*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

\*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

## Lead Surveyor Opinion

- Yes  No  Unsure The **hydrology** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **soils** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **vegetation** criterion for bog turtle habitat is met.  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).  
 This wetland does **NOT** have potential bog turtle habitat.  **UNSURE** if suitable habitat is present.

**Notes** (How did you reach this opinion?):

Wetland D does not contains the hydrology, soils, and vegetation required to support bog turtle habitat.

**Lead Surveyor – please sign** below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.Print Name Greg FleischerSignature Date 8/12/2021Contact Information gfleischer@capitalenviro.com

**\*\*Important\*\*** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

***Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range***

Wetland ID: Wetland D

(Revised April 29, 2020)

**Additional space for notes, color photos, or maps/sketch of wetland** (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.

**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020) **Please do not edit document.**

Wetland ID: Wetland E

PNDI # (for PA): \_\_\_\_\_

General Info

Property/Project Name Old Mill Road  
 Coordinates 41.120066, -74.133449 Project Type Commercial Development  
 Entity Requesting Phase 1 Survey IV2 Rockland Logistics Center LLC  
 County/Township/Municipality Rockland/Suffern  
 Lead Surveyor Greg Fleischer Affiliation Capital Environmental Consultants, Inc.  
 Other Assistants Present Kelly DeGuzman, Shannon Rattigan

Date/Condition

Date of Survey 8/12/2021 Time In 2:30 pm Time Out 3:00 pm Air Temp. 90 F ° C°  
 Last Precipitation  < 24 hours  1-7 days  > 1 week  unknown Drought conditions?  Yes  No  Unknown  
 Drought Index\*<sup>1</sup> (Circle): none D0 D1 D2 D3 D4 Wetland Photos Taken  Yes  No (Provide photo location map)  
 Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Size 0.49 acres, if known # Wetlands w/in Project Area<sup>2</sup> 6

Estimate wetland size (acres)  < 0.1  0.1 - 0.5  0.5 - 1  1 - 2  2 - 4  5+  10+

Estimate % Canopy Cover\*<sup>3</sup>  0%  ≤ 5  6-20  21-40  41-60  > 60

**Hydrology and Soils** (check all that apply): **use additional pages to further discuss pertinent general wetland information**

Springs/Seeps  Springhouse  Trib/Stream  Pond  Stormwater  Iron Bacteria  Watercress  
 Water Visible on Surface Evidence of Flooding  Yes  No If yes, ( Seasonal Flooding<sup>4</sup>  Routine Flooding<sup>5</sup>)  
 Rivulets (\_\_\_\_ inches deep)  Subsurface Tunnel/Rivulets  Tire Ruts (\_\_\_\_ inches deep)  
 Small Puddles/Depressions (\_\_\_\_ inches deep)  Saturated soils present? If yes, year-round?  Likely  Unlikely  Unk  
 Yes  No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?

Wetland Info

An intermittent stream flows through Wetland E and drains to Wetland F via a culvert.

Estimate time period (in years) of disturbance\*:  ≤ 5  6-10  11-20  > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:

<sup>1</sup> (\*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.

<sup>2</sup> Each wetland must have a separate Phase 1 habitat assessment data form completed.

<sup>3</sup> Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.

<sup>4</sup> Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.

<sup>5</sup> Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Yes  No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

Wetland Info

Rate (scale of 1-4) level of vegetation disturbance\* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed<sup>6</sup> 3. Moderate to high grazing or mowing 4. Mowing occurs during bog turtle active season

Soil types present\*:

Wethersfield gravelly silt loam, 15 to 25 percent slopes  
Moist, loamy soils observed within stream channel

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0 acres

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
PSS Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
PFO Portion of Wetland:	<u>100</u>	<u>0</u>	<u>0</u> in.	<u>0</u> in.
POW/PUB Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.

**CIRCLE all vegetation\* from list below that is dominant (≥ 20% for each wetland type listed above) and add other species you observe that are not listed in table in the “notes” space provided below or in the extra table cells.**

Wetland Type/Vegetation

Alder Spp. <i>Alnus</i> spp.	<b>Common Reed</b> <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	<b>Spicebush</b> <i>Lindera benzoin</i>	Willow spp. <i>Salix</i> spp.
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	Dogwood Spp. <i>Cornus</i> spp.	Mile-A-Minute <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
American Elm <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	<b>Multiflora Rose</b> <i>Rosa multiflora</i>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	Woolly Bulrush or Woolgrass <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Poison Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	<b>Skunk Cabbage</b> <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
Cattail <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	<b>Red Maple</b> <i>Acer rubrum</i>	Soft Rush or Common Rush <i>Juncus effusus</i>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	Japanese Stiltgrass <i>Microstegium vimineum</i>	Reed Canary Grass <i>Phalaris arundinacea</i>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

**Notes on additional plant species** (e.g., sedge, rush, grass, shrub, tree species):

Common blue violet, black cherry, silver maple

<sup>6</sup> No grazing, mowing, or burning is given a “2” rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Palustrine forested wetland with some open canopy areas. The wetland slopes northwest.

## Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)? None of it – the entire wetland is within the property boundaries Some of it – \_\_\_\_\_ Acres or \_\_\_\_\_% of the wetland appears to be located off-siteIf part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)? None of it  All of it  Part of it (\_\_\_\_ acres or \_\_\_\_% of the off-site portion)Is there potential bog turtle habitat **within 300 feet\***?  Yes  No  Unk Habitat **off-site**?  Yes  No  Unk

If yes, how did you conclude this?

## Species

Were any bog turtles observed?  Yes  No If yes, how many? \_\_\_\_\_Other herps observed?  Yes  No If yes, which ones? \_\_\_\_\_\*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.\*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs. Yes  No  Unsure The **hydrology** criterion for bog turtle habitat is met. Yes  No  Unsure The **soils** criterion for bog turtle habitat is met. Yes  No  Unsure The **vegetation** criterion for bog turtle habitat is met. Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality). Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality). This wetland does **NOT** have potential bog turtle habitat.  **UNSURE** if suitable habitat is present.

## Lead Surveyor Opinion

**Notes** (How did you reach this opinion?):

Wetland E does not contains the hydrology, soils, and vegetation required to support bog turtle habitat.

**Lead Surveyor – please sign** below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.Print Name Greg FleischerSignature Date 8/12/2021Contact Information gfleischer@capitalenviro.com**\*\*Important\*\*** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

***Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range***

Wetland ID: Wetland E

(Revised April 29, 2020)

**Additional space for notes, color photos, or maps/sketch of wetland** (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.



**Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range**

(Revised April 29, 2020) **Please do not edit document.**

Wetland ID: Wetland F

PNDI # (for PA): \_\_\_\_\_

General Info

Property/Project Name Old Mill Road

Coordinates 41.120066, -74.133449 Project Type Commercial Development

Entity Requesting Phase 1 Survey IV2 Rockland Logistics Center LLC

County/Township/Municipality Rockland/Suffern

Lead Surveyor Greg Fleischer Affiliation Capital Environmental Consultants, Inc.

Other Assistants Present Kelly DeGuzman, Shannon Rattigan

Date/Condition

Date of Survey 8/12/2021 Time In 3:00 pm Time Out 3:30 pm Air Temp. 90 F ° C°

Last Precipitation  < 24 hours  1-7 days  > 1 week  unknown Drought conditions?  Yes  No  Unknown

Drought Index\*<sup>1</sup> (Circle): none D0 D1 D2 D3 D4 Wetland Photos Taken  Yes  No (Provide photo location map)

Notes (e.g., details about drought, flood, abnormally dry, and/or snow/ice conditions, and any other seasonal conditions observed):

Wetland Size 0.08 acres, if known # Wetlands w/in Project Area<sup>2</sup> 6

Estimate wetland size (acres)  < 0.1  0.1 - 0.5  0.5 - 1  1 - 2  2 - 4  5+  10+

Estimate % Canopy Cover\*<sup>3</sup>  0%  ≤ 5  6-20  21-40  41-60  > 60

**Hydrology and Soils** (check all that apply): **use additional pages to further discuss pertinent general wetland information**

Springs/Seeps  Springhouse  Trib/Stream  Pond  Stormwater  Iron Bacteria  Watercress

Water Visible on Surface Evidence of Flooding  Yes  No If yes, ( Seasonal Flooding<sup>4</sup>  Routine Flooding<sup>5</sup>)

Rivulets (\_\_\_\_ inches deep)  Subsurface Tunnel/Rivulets  Tire Ruts (\_\_\_\_ inches deep)

Small Puddles/Depressions (\_\_\_\_ inches deep)  Saturated soils present? If yes, year-round?  Likely  Unlikely  Unk

Yes  No Are there any signs of disturbance to hydrology (e.g., drainage ditches, tile drainages, berms, culverts, fill material, ponds, roads, beaver activity)?

Wetland F receives runoff from Wetland E via a culvert. Wetland F drains to Wetland A via a culvert.

Wetland Info

Estimate time period (in years) of disturbance\*:  ≤ 5  6-10  11-20  > 20

For ditches that may be present, is there bog turtle habitat? If yes, describe:

<sup>1</sup> (\*) Denotes reference to the **Supplemental Information** document that provides more details on this particular question.

<sup>2</sup> Each wetland must have a separate Phase 1 habitat assessment data form completed.

<sup>3</sup> Determine percent cover of abundant species for the wetland, not by wetland type. Abundant species are those that are most prominent in the wetland and have the highest percent of coverage compared to other species.

<sup>4</sup> Seasonal flooding in wetlands/streams can occur as a result of spring snow melt/heavy rain that increases water levels in these systems.

<sup>5</sup> Routine flooding refers to tidally-influenced wetland/stream systems or the occurrence of normal rain patterns throughout the year.

Yes  No Are there any signs of disturbance to vegetation (e.g., mowing, pasturing, burning)? If yes, describe:

Wetland Info

Rate (scale of 1-4) level of vegetation disturbance\* (Circle): 1. Light to moderate grazing or mowing 2. No grazing, mowing, burning observed<sup>6</sup> 3. Moderate to high grazing or mowing 4. Mowing occurs during bog turtle active season

Soil types present\*:

Udorthents, smoothed

Within the intermittent stream, moist soils observed

How much suitable habitat is in this wetland? Estimate acreage or percentage: 0 acres

Wetland Type	% of Total Wetland	% of Wetland Type w/Muck	Avg. Muck Depth	Max. Muck Depth
PEM Portion of Wetland:	<u>100</u>	<u>0</u>	<u>0</u> in.	<u>0</u> in.
PSS Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
PFO Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.
POW/PUB Portion of Wetland:	<u>0</u>	<u>0</u>	<u>    </u> in.	<u>    </u> in.

**CIRCLE all vegetation\* from list below that is dominant ( $\geq 20\%$  for each wetland type listed above) and add other species you observe that are not listed in table in the "notes" space provided below or in the extra table cells.**

Wetland Type/Vegetation

Alder Spp. <i>Alnus</i> spp.	Common Reed <i>Phragmites australis</i>	Jewelweed <i>Impatiens capensis</i>	Rice Cutgrass <i>Leersia oryzoides</i>	Spicebush <i>Lindera benzoin</i>	Willow spp. <i>Salix</i> spp.
Alder-leaved Buckthorn <i>Rhamnus alnifolia</i>	Dogwood Spp. <i>Cornus</i> spp.	Mile-A-Minute <i>Persicaria perfoliata</i>	Rough-leaved Goldenrod <i>Solidago patula</i>	Spike-Rush <i>Eleocharis palustris</i>	Woolly-fruited Sedge <i>Carex lasiocarpa</i>
American Elm <i>Ulmus americana</i>	Duck Potato <i>Sagittaria latifolia</i>	Multiflora Rose <i>Rosa multiflora</i>	Sensitive Fern <i>Onoclea sensibilis</i>	Swamp Rose <i>Rosa palustris</i>	Woolly Bulrush or Woolgrass <i>Scirpus cyperinus</i>
Arrowhead <i>Sagittaria latifolia</i>	Eastern Red Cedar <i>Juniperus virginiana</i>	Poison Sumac <i>Toxicodendron vernix</i>	Shrubby Cinquefoil <i>Dasiphora fruticosa</i>	Sweetflag <i>Acorus calamus</i>	Yellow-Green Sedge <i>Cyperus esculentus</i>
Carpetgrass <i>Axonopus fissifolius</i>	Eastern Tamarack <i>Larix laricina</i>	Porcupine Sedge <i>Carex hystericina</i>	Skunk Cabbage <i>Symplocarpus foetidus</i>	Tearthumb Spp. <i>Polygonum</i> spp.	
Cattail <i>Typha</i> spp.	Grass-of-Parnassus <i>Parnassia glauca</i>	Purple Loosestrife <i>Lythrum salicaria</i>	Smooth Sawgrass <i>Cladium mariscoides</i>	Tussock Sedge <i>Carex stricta</i>	
Cinnamon Fern <i>Osmundastrum cinnamomeum</i>	Inland sedge <i>Carex interior</i>	Red Maple <i>Acer rubrum</i>	Soft Rush or Common Rush <i>Juncus effusus</i>	Viburnum Spp. <i>Viburnum</i> spp.	
Common Boneset <i>Eupatorium perfoliatum</i>	Japanese Stiltgrass <i>Microstegium vimineum</i>	Reed Canary Grass <i>Phalaris arundinacea</i>	Sphagnum Moss <i>Sphagnum</i> spp.	White turtlehead <i>Chelone glabra</i>	

**Notes on additional plant species** (e.g., sedge, rush, grass, shrub, tree species):

Black cherry, shagbark hickory, mugwort

<sup>6</sup> No grazing, mowing, or burning is given a "2" rank as this is considered more harmful to bog turtle wetlands than Rank 1 (light to moderate grazing or mowing). Light to moderate habitat management is beneficial to suppressing succession of native and non-native plant species.

Describe surrounding landscape (e.g., wetlands, forest, subdivision, agricultural field, fallow field, etc.):

Emergent wetland with an intermittent stream. The wetland slopes from east to west.

## Landscape Info

How much of this wetland is located **off-site** (i.e., outside the property boundaries or right-of-way)?

- None of it – the entire wetland is within the property boundaries  
 Some of it – \_\_\_\_\_ Acres or \_\_\_\_\_% of the wetland appears to be located off-site

If part of this wetland continues off-site, how much of the **off-site portion** was surveyed (on foot)?

- None of it  All of it  Part of it (\_\_\_\_ acres or \_\_\_\_% of the off-site portion)

Is there potential bog turtle habitat **within 300 feet\***?  Yes  No  Unk Habitat **off-site**?  Yes  No  Unk

If yes, how did you conclude this?

## Species

Were any bog turtles observed?  Yes  No If yes, how many? \_\_\_\_\_  
 Other herps observed?  Yes  No If yes, which ones? \_\_\_\_\_

\*Note that you must be permitted by the state you are conducting the survey in to handle bog turtles.

\*Report bog turtle observations to your local FWS Field Office and state wildlife office within 48 hrs.

## Lead Surveyor Opinion

- Yes  No  Unsure The **hydrology** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **soils** criterion for bog turtle habitat is met.  
 Yes  No  Unsure The **vegetation** criterion for bog turtle habitat is met.  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (fair to good quality).  
 Yes  No  Unsure This wetland **HAS** potential bog turtle habitat (low to very low quality).  
 This wetland does **NOT** have potential bog turtle habitat.  **UNSURE** if suitable habitat is present.

**Notes** (How did you reach this opinion?):

Wetland F does not contains the hydrology, soils, and vegetation required to support bog turtle habitat.

**Lead Surveyor – please sign** below certifying to the best of your knowledge that all of the information provided herein is accurate and complete.Print Name Greg FleischerSignature Date 8/12/2021Contact Information gfleischer@capitalenviro.com

**\*\*Important\*\*** Please include all Phase 1 data forms in a final Phase 1 bog turtle habitat assessment report (see Attachment 3 in *Guidelines for Bog Turtle Surveys* for checklist) and submit to your local state wildlife agency and U.S. Fish and Wildlife Service Field Office (see Attachment 1 in *Guidelines for Bog Turtle Surveys*).

***Phase 1 Bog Turtle Habitat Survey Data Form for the Northern Population Range***

Wetland ID: Wetland F

(Revised April 29, 2020)

**Additional space for notes, color photos, or maps/sketch of wetland** (or attach printed map with each wetland type carefully outlined; include all wetland types [PEM, PSS, PFO, POW/PUB], streams/ditches, north arrow, property/project borders, and areas of core bog turtle habitat. Include **color photos** for each wetland assessed and separate Phase 1 data forms for each when submitting to agencies, as well as any reptile and amphibian species you encounter, if possible.