

Large Filing Separator Sheet

Case Number: 07-171-EL-BTX

File Date: 9/28/07

Section: 2 of 5

Number of Pages: 201

Description of Document: Application for certificate
Volume 2

Pr-w025
uPL

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middlefield Re Soil
COUNTY: Genesee
STATE: NY
INVESTIGATORS: Robert Rejasky, Brenner, W. S. Lee
DATE: 10-21-07

APPLICANT OWNER: First Energy
COMMUNITY ID: Ag. Wilder
TRANSECT ID:
PLOT ID: RBW-004

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

Yes No
Yes No
Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Tree mays</u>	<u>1+</u>	<u>OR</u>	9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No
Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☒ Other
☐ None Available

PRIMARY INDICATORS:

☐ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: (inches)
Depth of Free Water in Pit: (inches)
Depth to Saturated Soils: (inches)

SECONDARY INDICATORS:

☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? Yes No
Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-4	A	10YR 3/5			S. / f. loam
	B				
	C				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☐ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? Yes No
Remarks:

Hydrophytic Vegetation Present? Yes No
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No
Is This Sampling Point a Wetland? Yes No
Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Pr-W026

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Middlefield 138</u>		Date: <u>5/2/07</u>
Applicant/Owner: <u>FE</u>		County: <u>Genoa</u>
Investigator: <u>Repacky + Thon + YRZ</u>		State: <u>OH</u>
Do Normal Circumstances Exist on the site?	Yes ☒ No ☐	Community ID: <u>PFO</u>
Is the site significantly disturbed (Atypical Situation)?	Yes ☐ No ☒	Transect ID: _____
Is the area a potential Problem Area?	Yes ☐ No ☒	Plot ID: <u>PTW-101</u>
(If needed, explain on reverse.)		

VEGETATION

Tree Line North of W-C.

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Cornus Amom</u>	<u>S</u>	<u>FACW</u>	9. <u>Salix nigra</u>	<u>S/T</u>	<u>FACW+</u>
2. <u>Flaxinus Pennsylv</u>	<u>T</u>	<u>FACW</u>	10. <u>Sparganium angustifolium</u>	<u>H</u>	<u>FAC</u>
3. <u>Sium SAUVE</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Sium Aleppicum</u>	<u>H</u>	<u>FOC</u>	12. _____	_____	_____
5. <u>Ranulus acris</u>	<u>H</u>	<u>FAC+</u>	13. _____	_____	_____
6. <u>Cornus sericea</u>	<u>S</u>	<u>FACW+</u>	14. _____	_____	_____
7. <u>Viburnum acerifolium</u>	<u>S</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Ribes Americanum</u>	<u>S</u>	<u>FACW</u>	16. _____	_____	_____
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): <u>100</u>					
Remarks:					

HYDROLOGY

☐ Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ☐ Inundated ☐ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>218</u> (in.) Depth to Saturated Soil: <u>218</u> (in.)	
Remarks:	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____	
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No	

Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8	A	2.5Y 3/2	NO		
8-12	B	2.5Y 5/2	10YR 6/8	M / D	silty

Hydric Soil Indicators:

☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☒ Gleyed or Low-Chroma Colors	☐ Concretions ☐ High Organic Content in Surface Layer Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other (Explain in Remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <u>Yes</u> No (Circle) Wetland Hydrology Present? <u>Yes</u> No Hydric Soils Present? <u>Yes</u> No	Is this Sampling Point Within a Wetland? <u>Yes</u> No (Circle)
Remarks:	

Pr:W027

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Middlefield 138KV</u>	Date: <u>5-7-02</u>
Applicant/Owner: <u>F-E</u>	County: <u>Genesee</u>
Investigator: <u>Repsky - Thomas</u>	State: <u>NY</u>
Do Normal Circumstances Exist on the site? Yes ☒ No ☐	Community ID: <u>PEM</u>
Is the site significantly disturbed (Atypical Situation)? Yes ☒ No ☐	Transect ID: _____
Is the area a potential Problem Area? Yes ☒ No ☐	Plot ID: <u>REFW102</u>
(If needed, explain on reverse.)	

VEGETATION

Hay Field

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Juncus edulis</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Alopecurus pratensis</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Carex sp. 1</u>	_____	_____	11. _____	_____	_____
4. <u>Carex sp. 2</u>	_____	_____	12. _____	_____	_____
5. <u>Ranunculus abortivus</u>	<u>H</u>	<u>FAC+</u>	13. _____	_____	_____
6. <u>Trisetum pratense</u>	<u>H</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Poa pratensis</u>	<u>H</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): <u>60</u>					
Remarks: _____					

HYDROLOGY

☐ Recorded Data (Describe in Remarks): ☒ Stream, Lake, or Tide Gauge ☒ Aerial Photographs <u>Shadow</u> ☐ Other _____ ☒ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ☐ Inundated ☐ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>>12</u> (in.) Depth to Free Water in Pit: <u>>12</u> (in.) Depth to Saturated Soil: <u>>12</u> (in.)	
Remarks: <u>Drainage patterns on Aerial</u>	

SOILS

Map Unit Name (Series and Phase): <u>M. x</u>		Drainage Class: _____	
Taxonomy (Subgroup): <u>M. x Plain Zone</u>		Field Observations Confirm Mapped Type? Yes No	

Profile Description:		Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
Depth (inches)	Horizon				
<u>12</u>	<u>M^{AP}</u>	<u>10YR 4/1</u>	<u>7.5YR 4/6</u>	<u>C-D</u>	<u>silt/clay</u>

Hydric Soil Indicators:

☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☒ Gleyed or Low-Chroma Colors	☐ Concretions ☐ High Organic Content in Surface Layer Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other (Explain in Remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <u>Yes</u> No (Circle) Wetland Hydrology Present? <u>Yes</u> No Hydric Soils Present? <u>Yes</u> No	Is this Sampling Point Within a Wetland? <u>Yes</u> No (Circle)
Remarks:	

Pr-WD 28

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Middlefield</u> Applicant/Owner: <u>FS</u> Investigator: <u>Ripstein, Thomey</u>	Date: <u>5/2/07</u> County: <u>Orange</u> State: <u>CA</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No Is the area a potential Problem Area? ☒ Yes ☐ No (If needed, explain on reverse.)	Community ID: <u>PFO</u> Transect ID: Plot ID: <u>RHW-105</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acacia salicifolia</u>	<u>T</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Salix rosmarinifolia</u>	<u>S</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Olus rubra</u>	<u>S</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Populus deltoides</u>	<u>S</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Prunus serotina</u>	<u>T</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Salicella simplex</u>	<u>HT</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Acacia Robur</u>	<u>T</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Carex Vinosa</u>	<u>HT</u>	<u>FACW</u>	16. _____	_____	_____
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): <u>63</u>					
Remarks:					

HYDROLOGY

Recorded Data (Describe in Remarks): ☒ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☐ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>6</u> (in.)	
Remarks:	

Pr-w029

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middle Sued</u> Applicant / Owner: <u>FE</u> Investigator: <u>Deputy + Thonyle</u>	Date: <u>5/2/02</u> County: <u>Leary</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PFO</u> Transect ID: _____ Plot ID: <u>RTW-104A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Asclepias</u>	<u>T</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Viburnum</u>	<u>S</u>	<u>FACW</u>	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 100

Remarks: _____

HYDROLOGY

___ Recorded Data (Describe in Remarks): ☒ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12" ☒ Water Marks ___ Drift Lines ___ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks: _____	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (Inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-10	A	2.5Y 5/1	10YR 5/8	N/P	Loam.

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point	
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland?	Yes ☒ No ☐
Hydric Soils Present?	Yes ☒ No ☐		

Remarks:

Pr-w 030

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Middle Pond 138</u>	Date: <u>5/2/02</u>
Applicant/Owner: <u>FF</u>	County: <u>Greene</u>
Investigator: <u>Repaux + Thompson</u>	State: <u>OH</u>
Do Normal Circumstances Exist on the site? <u>Yes</u> No	Community ID: <u>PE M/S</u>
Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> No	Transect ID: _____
Is the area a potential Problem Area? <u>Yes</u> No	Plot ID: <u>PTW-104</u>
(If needed, explain on reverse.)	

VEGETATIONFormer Bear Pond

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Phytolacca americana</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Viburnum acerifolium</u>	<u>S</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Phragmites australis</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100

Remarks: _____

HYDROLOGY

☒ Recorded Data (Describe in Remarks): ☒ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 Inches ☒ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>6"</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks: _____	

Pr-w031

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: M. d. d. S. rd
COUNTY: Getus
STATE: OH
INVESTIGATORS: Robert Repasky
DATE: 5/7/07

APPLICANT/OWNER: FE
COMMUNITY ID: PBB/EM
TRANSECT ID:
PLOT ID: 26405 a

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

Yes ☒ No ☐
Yes ☐ No ☒
Yes ☐ No ☒

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Phragmites</u>	<u>5</u>	<u>FACW</u>	9.		
2. <u>Phragmites</u>	<u>4</u>	<u>FACW</u>	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: ☒ Yes ☐ No

100

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- ☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: 1 (inches)
Depth of Free Water in Pit: surface (inches)
Depth to Saturated Soils: surface (inches)

PRIMARY INDICATORS:

- ☒ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

SECONDARY INDICATORS:

- ☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present?

☒ Yes ☐ No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

Drainage Class:

Field Observation Confirm Mapped Type: Yes ☐ No ☐

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-1</u>	<u>A</u>	<u>10YR 6/1</u>	<u>10YR 6/1</u>	<u>M/D</u>	<u>loam</u>
	<u>B</u>				
	<u>C</u>				

HYDRIC SOIL INDICATORS:

- ☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present?

☒ Yes ☐ No

Remarks:

Hydrophytic Vegetation Present?

Wetland Hydrology Present?

Hydric Soils Present?

This Sampling Point a Wetland?

Remarks:

☒ Yes ☐ No
☒ Yes ☐ No
☒ Yes ☐ No
☒ Yes ☐ No

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Pr-W031
UPL

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: M. Dale Sald
COUNTY: Owen Co
STATE: OH
INVESTIGATORS: Robert Repasky
DATE: 5/7/07

APPLICANT OWNER: FC
COMMUNITY ID: FU
TRANSECT ID:
PLOT ID: ET-105 UPL

Do Normal Circumstances Exist On The Site? Yes No
Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes No
Is The Area A Potential Problem Area? (Explain in Remarks) Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Fragus americana</i>	T/S	FAC	9.		
2. <i>Hamamelis virginica</i>	S	FAC	10.		
3. <i>Urtica dioica</i>	T	FACW	11.		
4. <i>Carpinus caroliniana</i>	S	FAC	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- ☒ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

- ☐ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
Depth of Free Water in Pit: 21" (inches)
Depth to Saturated Soils: 31" (inches)

SECONDARY INDICATORS:

- ☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? Yes No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-10	A	10YR 4/1	10YR 4/6	F/D	Loam
	B				
	C				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

- ☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☒ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? Yes No

Remarks:

Hydrophytic Vegetation Present? Yes No
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No
This Sampling Point a Wetland? Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
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		15	
		16	

Pr-N032

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middle Field
 COUNTY: Genese
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 5/8/07

APPLICANT OWNER: FE
 COMMUNITY ID:
 TRANSECT ID: PEM
 PLOT ID: RTW110 Field

Do Normal Circumstances Exist On The Site?
 Is The Site Significantly and Recently Disturbed? (Atypical Situation)
 Is The Area A Potential Problem Area? (Explain in Remarks)

☒ Yes
☐ No

☐ No
☒ No
☒ No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex</u>			9.		
2. <u>Typha latifolia</u>			10.		
3. <u>Ranunculus abortivus</u>			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: ☒ Yes ☐ No
 Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other

☒ None Available

PRIMARY INDICATORS:

☐ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☒ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
 Depth of Free Water in Pit: 6 (inches)
 Depth to Saturated Soils: SW 1m (inches)

SECONDARY INDICATORS:

☒ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? ☒ Yes ☐ No
 Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-8</u>	<u>A</u>	<u>10YR 5/1</u>			
<u>8-12</u>	<u>B</u>	<u>2.5Y 3/1</u>	<u>10YR 5/1</u>	<u>C/D</u>	<u>S. Hlm</u>
	<u>C</u>				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? ☒ Yes ☐ No
 Remarks:

Hydrophytic Vegetation Present? ☒ Yes ☐ No
 Wetland Hydrology Present? ☒ Yes ☐ No
 Hydric Soils Present? ☒ Yes ☐ No
 Is This Sampling Point a Wetland? ☒ Yes ☐ No
 Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
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		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: middle fork
 COUNTY: Genese
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 5/8/09

APPLICANT OWNER: FE
 COMMUNITY ID: PS5/F0
 TRANSECT ID: PS5/F0
 PLOT ID: RTW-110 edge

Do Normal Circumstances Exist On The Site? Yes
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes
 Is The Area A Potential Problem Area? (Explain in Remarks) No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Viburnum acerifolium</u>	<u>S</u>	<u>FACW</u>	9.		
2. <u>Acer Rubrum</u>	<u>T</u>	<u>FAC</u>	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes NoRemarks: Forest Edge

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- ☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

- ☒ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☒ Sediment Deposits
☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

- Depth of Surface Water: 6 (inches)
 Depth of Free Water in Pit: surface (inches)
 Depth to Saturated Soils: surface (inches)

SECONDARY INDICATORS:

- ☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? Yes No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup)

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-8	A	10YR3/1			
8-16	B	2.5Y 3/1	10YR 5/8	F/D	com
	C				

HYDRIC SOIL INDICATORS:

- ☐ Histosol ☐ Reducing Conditions ☐ Listed on Local Hydric Soils List
☐ Histic Epipedon ☒ Gleyed/ Low-Chroma Soils ☐ Listed on National Hydric Soils List
☐ Sulfidic Odor ☐ Concretions ☐ Other (see Remarks)
☐ Aquic Moisture Regime ☐ Organic Streaking in Sandy Soils

Hydric Soils Present? Yes No

Remarks:

Hydrophytic Vegetation Present? Yes NoWetland Hydrology Present? Yes NoHydric Soils Present? Yes NoIs This Sampling Point a Wetland? Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
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Pr-w032
UPL

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Ar. del. del. del.
COUNTY: Geauga
STATE: OH
INVESTIGATORS: Robert Repasky
DATE: 5/8/02

APPLICANT/OWNER: FE
COMMUNITY ID: FO
TRANSECT ID:
PLOT ID: 110-UPL

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

Yes No
Yes No
Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Asp. Sachalin</u>	<u>T</u>		9.		
2. <u>Prunus serotina</u>	<u>S</u>		10.		
3. <u>M. A. ...</u>	<u>H</u>		11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

Stream, Lake, or Tide Group
Aerial Photographs
Other
None Available

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
Depth of Free Water in Pit: >16 (inches)
Depth to Saturated Soils: >16 (inches)

PRIMARY INDICATORS:

Inundated
Saturated in the Upper 12 inches
Water Marks
Drift Lines
Sediment Deposits
Drainage Patterns in Wetlands

SECONDARY INDICATORS:

Oxidized Root Channels in Upper 12 inches
Water Stained Leaves
Local Soil Survey Data
FAC-Neutral Test
Other (Explain in Remarks)

Wetland Hydrology Present?

Yes No

Remarks:

SOILS:

Map Unit Name (Series and Phase)
Taxonomy (Subgroup):

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-6</u>	<u>A</u>	<u>10 YR 3/1</u>			
<u>6-12</u>	<u>B</u>	<u>7.5 Y 5/1</u>	<u>10 YR 5/4</u>	<u>Few/D</u>	<u>S. H/om</u>
	<u>C</u>				

HYDRIC SOIL INDICATORS:

Histosol Reducing Conditions Listed on Local Hydric Soils List
Histic Epipedon Gleyed/ Low-Chroma Soils Listed on National Hydric Soils List
Sulfidic Odor Concretions Other (see Remarks)
Aquic Moisture Regime Organic Streaking in Sandy Soils

Hydric Soils Present?

Yes No

Remarks:

Hydrophytic Vegetation Present?

Yes No

Wetland Hydrology Present?

Yes No

Hydric Soils Present?

Yes No

Is This Sampling Point a Wetland?

Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
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		16	

Pr-w033

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE:
COUNTY:
STATE:
INVESTIGATORS:
DATE:

M. delle Field
Gause
04
Robert Repasky
5/8/07

APPLICANT OWNER:
COMMUNITY ID:
TRANSECT ID:
PLOT ID:

FE
Vine Pool
Btw 109

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

Yes No
Yes No
Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. NA			9.		
2.			10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No
Remarks:

No Plants in depression

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

Stream, Lake, or Tide Group
Aerial Photographs
Other
None Available

FIELD OBSERVATIONS:

Depth of Surface Water: 12 (inches)
Depth of Free Water in Pit: 5-10 (inches)
Depth to Saturated Soils: 5-10 (inches)

PRIMARY INDICATORS:

☒ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

SECONDARY INDICATORS:

☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present?

Yes No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-12	A	10YR 6/1	10YR 5/1	F/D	S.L
	B				
	C				

HYDRIC SOIL INDICATORS:

☐ Histosol ☐ Reducing Conditions ☐ Listed on Local Hydric Soils List
☐ Histic Epipedon ☒ Gleyed/ Low-Chroma Soils ☐ Listed on National Hydric Soils List
☐ Sulfidic Odor ☐ Concretions ☐ Other (see Remarks)
☐ Aquic Moisture Regime ☐ Organic Streaking in Sandy Soils

Hydric Soils Present?

Yes No

Remarks:

Hydrophytic Vegetation Present? Yes No
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No
Is This Sampling Point a Wetland? Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
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		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: *41. dallasford*
COUNTY: *beauregard*
STATE: *OH*
INVESTIGATORS: Robert Repasky
DATE: *5/8/02*

APPLICANT/OWNER: FE
COMMUNITY ID: FO
TRANSECT ID:
PLOT ID: 109, UDL

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

Yes	No
Yes	No
Yes	No

VEGETATION:

VEGETATION:			VEGETATION:		
Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Aspen</i>	T		9.		
2. <i>Prunus serotina</i>	S		10.		
3. <i>Myrica carolinensis</i>	lt		11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):		
Hydrophytic Vegetation Present:	Yes	No
Remarks:		

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- RECORDED DATA (Describe in detail)
☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☒ None Available

FIELD OBSERVATIONS:

FIELD OBSERVATIONS:

Depth of Surface Water:		(inches)
Depth of Free Water in Pit:	> 16	(inches)
Depth to Saturated Soils:	> 16	(inches)

PRIMARY INDICATORS:

- ☐ Inundated
- ☐ Saturated in the Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

SECONDARY INDICATORS:

- ☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? Yes No
Remarks:

SOILS:

Map Unit Name (Series and Phase)

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-6	A	10 YR 3/1			
6-12	B	2.5 Y 5/1	10 YR 5/8	Few / 10	S. / 10m
	C				

HYDRIC SOIL INDICATORS:

- HYDRIC SOIL INDICATORS:
- | | | |
|--|--|---|
| ☐ Histosol | ☐ Reducing Conditions | ☐ Listed on Local Hydric Soils List |
| ☐ Histic Epipedon | ☒ Gleyed/ Low-Chroma Soils | ☐ Listed on National Hydric Soils List |
| ☐ Sulfidic Odor | ☐ Concretions | ☐ Other (see Remarks) |
| ☐ Aquic Moisture Regime | ☐ Organic Streaking in Sandy Soils | |

Hydric Soils Present?	Yes	No
Remarks:		

Hydrophytic Vegetation Present?	Yes	<u>No</u>
Wetland Hydrology Present?	Yes	<u>No</u>
Hydric Soils Present?	<u>Yes</u>	<u>No</u>
Is This Sampling Point a Wetland?	Yes	<u>No</u>
Remarks:		

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middlefield
 COUNTY: Genese
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 5/8/02

APPLICANT OWNER: FE
 COMMUNITY ID: PEM
 TRANSECT ID:
 PLOT ID: RTW-108 OLD Pond?

Do Normal Circumstances Exist On The Site?
 Is The Site Significantly and Recently Disturbed? (Atypical Situation)
 Is The Area A Potential Problem Area? (Explain in Remarks)

☒ Yes
☐ No

☐ Yes
☒ No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha latifolia</u>	<u>H</u>	<u>DBL</u>	9.		
2. <u>Phalaris arundinacea</u>	<u>H</u>	<u>FACW</u>	10.		
3. <u>Sagittaria</u>	<u>S</u>	<u>FACW</u>	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: ☐ Yes ☐ No
 Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- ☒ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

- ☐ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
 Depth of Free Water in Pit: 6 (inches)
 Depth to Saturated Soils: surface (inches)

SECONDARY INDICATORS:

- ☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? ☒ Yes ☐ No
 Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-12	A	10YR 5/1	10YR 5/8	10m / Dist	Loam
	B				
	C				

Drainage Class:

Field Observation Confirm Mapped Type: ☐ Yes ☐ No

HYDRIC SOIL INDICATORS:

- ☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? ☒ Yes ☐ No
 Remarks:

Hydrophytic Vegetation Present? ☒ Yes ☐ No
 Wetland Hydrology Present? ☒ Yes ☐ No
 Hydric Soils Present? ☒ Yes ☐ No
 Is This Sampling Point a Wetland? ☒ Yes ☐ No
 Remarks:

PROJECT:			CLIENT:	
TECHNICIAN:			WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:	
TYPE OF TEST:		TEST NUMBER:		
ELEV	DESCRIPTION	DEPTH (FT or IN)		REMARKS
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		15		
		16		

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middle Field
 COUNTY: Greene
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 5/18/02

APPLICANT OWNER: FE
 COMMUNITY ID: PSS
 TRANSECT ID:
 PLOT ID: R1408

Do Normal Circumstances Exist On The Site? Yes No
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes No
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Viburnum racematum</u>	<u>S</u>	<u>FACW</u>	9. <u>Typha latifolia</u>		
2. <u>Ulmus rubra</u>	<u>S/T</u>	<u>FAC</u>	10.		
3. <u>Tox. radicans</u>	<u>H/V</u>	<u>FAC</u>	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No
 Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- ☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☒ None Available

PRIMARY INDICATORS:

- ☐ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
 Depth of Free Water in Pit: 216 (inches)
 Depth to Saturated Soils: 10 (inches)

SECONDARY INDICATORS:

- ☐ Oxidized Root Channels in Upper 12 inches
☒ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? Yes No

Remarks: Post Bullhead St.

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-6</u>	<u>A</u>	<u>10YR 5/1</u>			
<u>6-14</u>	<u>B</u>	<u>7.5Y 3/1</u>	<u>10YR 5/8</u>	<u>con / D.</u>	<u>S. / H/a</u>
	<u>C</u>				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

- ☐ Histosol ☐ Reducing Conditions ☐ Listed on Local Hydric Soils List
☐ Histic Epipedon ☒ Gleyed / Low-Chroma Soils ☐ Listed on National Hydric Soils List
☐ Sulfidic Odor ☐ Concretions ☐ Other (see Remarks)
☐ Aquic Moisture Regime ☐ Organic Streaking in Sandy Soils

Hydric Soils Present? Yes No

Remarks:

Hydrophytic Vegetation Present? Yes NoWetland Hydrology Present? Yes NoHydric Soils Present? Yes NoIs This Sampling Point a Wetland? Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
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		11	
		12	
		13	
		14	
		15	
		16	

APPLICANT/OWNER: FE
COMMUNITY ID:
TRANSECT ID:
PLOT ID: 108 UDL

Yes	No
Yes	No
Yes	No

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Albizia saman</i>	T		9.		
2. <i>Prunus serotina</i>	S		10.		
3. <i>M. guianensis</i>	It		11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Remarks:

Depth of Surface Water: _____ (inches)
 Depth of Free Water in Pit: > 1 _____ (inches)
 Depth to Saturated Soils: < 1 _____ (inches)

☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Drainage Class:
Field Observation Confirm Mapped Type: Yes No

Hydrophytic Vegetation Present?	Yes	No
Wetland Hydrology Present?	Yes	No
Hydric Soils Present?	<u>Yes</u>	No
Is This Sampling Point a Wetland?	Yes	<u>No</u>
Remarks:		

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: M. do
COUNTY: GEORGE
STATE: ORT
INVESTIGATORS: Robert Repasky
DATE: 5/8/07

APPLICANT/OWNER: *FC*
COMMUNITY ID: *D55/F0*
TRANSECT ID:
PLOT ID: *RT W107*

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

Yes	No
Yes	No
Yes	No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>V. racemosa</i>	S	FAW	9.		
2. <i>Cornus Amom</i>	S	FAW	10.		
3. <i>Rubus idaeus</i>	S	FAW	11.		
4. <i>Prunus pennsylvanica</i>	T	FAW	12.		
5. <i>Salix nigra</i>	T/S	FAW	13.		
6. <i>Carex crinita</i>	H	DBL	14.		
7. <i>Carex Amphibola</i>	it	FAW	15.		
8. <i>Juniperus communis</i>	it	FAW	16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-): 88
Hydrophytic Vegetation Present: ☒ Yes ☐ No
Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

☒ Stream, Lake, or Tide Group
☒ Aerial Photographs
☐ Other
☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: 0 NA (inches)
 Depth of Free Water in Pit: 216 (inches)
 Depth to Saturated Soils: (inches)

PRIMARY INDICATORS:

- ☐ Inundated
- ☒ Saturated in the Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☒ Drainage Patterns in Wetlands

SECONDARY INDICATORS:

☒ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? Yes No
Remarks:

SOILS:

**Map Unit Name (Series and Phase
Taxonomy (Subgroup):**

Drainage Class:
Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-8	A	10 YR 3/1			
8-12	B	2.5 Y 5/1	10 YR 5/8	C/D	sh / loma
	C				

HYDRIC SOIL INDICATORS:

☐ Histosol	☐ Reducing Conditions
☐ Histic Epipedon	☐ Gleyed/ Low-Chroma Soils
☐ Sulfidic Odor	☐ Concretions
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils

☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? ☒ Yes ☐ No
Remarks:

Hydrophytic Vegetation Present?	☒	No
Wetland Hydrology Present?	☒	No
Hydric Soils Present?	☒	No
Is This Sampling Point a Wetland?	☒	No
Remarks:		

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
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		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: McDell Field
COUNTY: Greene
STATE: OH
INVESTIGATOR: Robert Repasky
DATE: 5/8/07

APPLICANT OWNER: F&E
COMMUNITY ID: PFO 155
TRANSECT ID:
PLOT ID: RTW 107 c

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

☒ Yes
☐ Yes
☐ Yes

☐ No
☒ No
☐ No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	9.		
2. <u>Fraxinus pennsylvanica</u>	<u>T</u>	<u>FACW</u>	10.		
3. <u>Taxus canadensis</u>	<u>VF</u>	<u>FAC</u>	11.		
4. <u>Vitis vulpina</u>	<u>VINE</u>	<u>FAC</u>	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: ☒ Yes ☐ No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

☐ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☒ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS

Depth of Surface Water: NA (inches)
Depth of Free Water in Pit: 3, 18 (inches)
Depth to Saturated Soils: 1, 0 (inches)

SECONDARY INDICATORS:

☒ Oxidized Root Channels in Upper 12 inches
☒ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? ☒ Yes ☐ No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-8	A	10YR 3/1			
8-16	B	2.5Y 5/1	10YR 5/8	M/P	Loam
	C				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? ☒ Yes ☐ No

Remarks:

Hydrophytic Vegetation Present? ☒ Yes ☐ No

Wetland Hydrology Present? ☒ Yes ☐ No

Hydric Soils Present? ☒ Yes ☐ No

Is This Sampling Point a Wetland? ☒ Yes ☐ No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
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		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: middle field
 COUNTY: Georgia
 STATE: 04
 INVESTIGATORS: Robert Repasky
 DATE: 5/8/07

APPLICANT OWNER: FE
 COMMUNITY ID: PFO 155
 TRANSECT ID:
 PLOT ID: ETW 107 c

Do Normal Circumstances Exist On The Site? ☒ Yes ☐ No
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) ☒ Yes ☐ No
 Is The Area A Potential Problem Area? (Explain in Remarks)

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	9.		
2. <u>Fraxinus pennsylvanica</u>	<u>T</u>	<u>FACW</u>	10.		
3. <u>Toxicaria radicans</u>	<u>V</u>	<u>FAC</u>	11.		
4. <u>Vitis vulpina</u>	<u>VINE</u>	<u>FAC</u>	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present:

☒ Yes ☐ No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- ☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

- ☐ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☒ Sediment Deposits
☒ Drainage Patterns in Wetlands

Wetland Hydrology Present?

☒ Yes

No

Remarks:

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
 Depth of Free Water in Pit: 3.18 (inches)
 Depth to Saturated Soils: 1.8 (inches)

SECONDARY INDICATORS:

- ☒ Oxidized Root Channels in Upper 12 inches
☒ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-8</u>	<u>A</u>	<u>10YR 3/1</u>			
<u>8-16</u>	<u>B</u>	<u>2.5Y 5/1</u>	<u>10YR 5/8</u>	<u>M/D</u>	<u>Loam</u>
	<u>C</u>				

Drainage Class:

Field Observation Confirm Mapped Type: ☒ Yes ☐ No

HYDRIC SOIL INDICATORS:

- ☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed / Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils

- ☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present?

☒ Yes

No

Remarks:

Hydrophytic Vegetation Present?

☒ Yes

No

Wetland Hydrology Present?

☒ Yes

No

Hydric Soils Present?

☒ Yes

No

Is This Sampling Point a Wetland?

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
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		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middle Island
 COUNTY: Genesee
 STATE: NY
 INVESTIGATORS: Robert Repasky
 DATE: 5/8/07

APPLICANT/OWNER: FE
 COMMUNITY ID: PF-153
 TRANSECT ID:
 PLOT ID: RTW 1072

Do Normal Circumstances Exist On The Site? ☒ Yes ☐ No
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) ☒ Yes ☐ No
 Is The Area A Potential Problem Area? (Explain in Remarks) ☒ Yes ☐ No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>V. racemosa</u>	<u>S</u>	<u>FACW</u>	9.		
2. <u>Populus deltoides</u>	<u>T</u>	<u>FAC COTTONWOOD</u>	10.		
3. <u>Flaxmark plumularis</u>	<u>T</u>	<u>FACW SAWASH</u>	11.		
4. <u>Parocela senilis</u>	<u>HT</u>	<u>DAL</u>	12.		
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC RED MAPLE</u>	13.		
6. <u>Tox. fruticosus</u>	<u>✓</u>	<u>FAC</u>	14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: ☒ Yes ☐ No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- ☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

- ☐ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

Wetland Hydrology Present? ☒ Yes ☐ No

Remarks:

FIELD OBSERVATIONS:

Depth of Surface Water: 10" (inches)
 Depth of Free Water in Pit: 316 (inches)
 Depth to Saturated Soils: 10 (inches)

SECONDARY INDICATORS:

- ☒ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-8</u>	<u>A</u>	<u>10 YR 3/1</u>			
<u>8-14</u>	<u>B</u>	<u>2.5 Y 5/1</u>	<u>10 YR 5/1</u>	<u>Many / Dist.</u>	<u>silt/clay</u>
	<u>C</u>				

Drainage Class:

Field Observation Confirmed Mapped Type: ☐ Yes ☐ No

HYDRIC SOIL INDICATORS:

- ☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☒ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed / Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils

- ☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? ☒ Yes ☐ No

Remarks:

Hydrophytic Vegetation Present? ☒ Yes ☐ NoWetland Hydrology Present? ☒ Yes ☐ NoHydric Soils Present? ☒ Yes ☐ NoIs This Sampling Point a Wetland? ☒ Yes ☐ No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
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		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middle Island
COUNTY: Genesee
STATE: NY
INVESTIGATORS: Robert Repasky
DATE: 5/8/07

APPLICANT/OWNER: FE
COMMUNITY ID: PF-153
TRANSECT ID:
PLOT ID: RTW 1072

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

Yes No
Yes No
Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Populus deltoides</u>	S	FACW	9.		
2. <u>Populus deltoides</u>	T	FAC COTTONWOOD	10.		
3. <u>Potamogeton amplifolius</u>	T	FACW GRASS	11.		
4. <u>Potamogeton amplifolius</u>	H	OBL	12.		
5. <u>Acer rubrum</u>	T	FAC RED MAPLE	13.		
6. <u>Potamogeton amplifolius</u>	✓	FAC	14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No 100
Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

Stream, Lake, or Tide Group
Aerial Photographs
Other
None Available

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
Depth of Free Water in Pit: 316 (inches)
Depth to Saturated Soils: 10 (inches)

PRIMARY INDICATORS:

Inundated
X Saturated in the Upper 12 inches
Water Marks
Drift Lines
Sediment Deposits
X Drainage Patterns in Wetlands

SECONDARY INDICATORS:

X Oxidized Root Channels in Upper 12 inches
Water Stained Leaves
Local Soil Survey Data
FAC-Neutral Test
Other (Explain in Remarks)

Wetland Hydrology Present?

Remarks: Yes No

SOILS:

Map Unit Name (Series and Phase)
Taxonomy (Subgroup):

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-8	A	10 YR 3/1			
8-14	B	2.5 Y 5/1	10 YR 5/8	Many 1 D. s.t.	silt/clay
	C				

HYDRIC SOIL INDICATORS:

Histosol
Histic Epipedon
Sulfidic Odor
Aquic Moisture Regime
Reducing Conditions
X Gleyed/ Low-Chroma Soils
Concretions
Organic Streaking in Sandy Soils

Listed on Local Hydric Soils List
Listed on National Hydric Soils List
Other (see Remarks)

Hydric Soils Present?

Remarks: Yes No

Hydrophytic Vegetation Present?

Wetland Hydrology Present?

Hydric Soils Present?

This Sampling Point a Wetland?

Remarks: Yes No

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
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Dr-W0410

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: M. J. Lee Field
COUNTY: Geneva
STATE: OH
INVESTIGATORS: Robert Repasky
DATE: 5/8/07

APPLICANT/OWNER: FL
COMMUNITY ID:
TRANSECT ID: PSS / 19M
PLOT ID: RTW 106 JS / 19M

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

Yes
Yes
Yes

No
No
No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Vilaminia racemosa</i>	S	FACW	9. <i>Juncus edulis</i>	H	FACW
2. <i>Cornus spicata</i>	S	FACW	10. <i>Ga. serotina</i>	H	FAC
3. <i>Salix nigra</i>	S	FACW	11. <i>Carex Michx.</i>	H	FAC
4. <i>Carex tribuloides</i>	H	FACW+	12. <i>Impatiens capensis</i>	H	FACW+
5. <i>...</i>			13. <i>Euthamia graminifolia</i>	H	FAC
6. <i>...</i>			14. <i>Oenothera biennis</i>	H	OBL
7. <i>...</i>			15. <i>...</i>		
8. <i>...</i>			16. <i>...</i>		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No

Remarks: Unmowed + mowed Row along Sun Rd

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

Stream, Lake, or Tide Group
Aerial Photographs
Other

None Available

PRIMARY INDICATORS:

Inundated
Saturated in the Upper 12 inches
Water Marks
Drift Lines
Sediment Deposits
Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 1 (inches)
Depth of Free Water in Pit: 10 (inches)
Depth to Saturated Soils: Surf (inches)

SECONDARY INDICATORS:

Oxidized Root Channels in Upper 12 inches
Water Stained Leaves
Local Soil Survey Data
FAC-Neutral Test
Other (Explain in Remarks)

Wetland Hydrology Present?

Yes No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-10	A	10YR 3/1			
10-16	B	10Y 5/2	10YR 5/6	Few / Dis	Loamy
	C				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

Histosol
Histic Epipedon
Sulfidic Odor
Aquic Moisture Regime
Reducing Conditions
Gleyed/ Low-Chroma Soils
Concretions
Organic Streaking in Sandy Soils

Listed on Local Hydric Soils List
Listed on National Hydric Soils List
Other (see Remarks)

Hydric Soils Present?

Yes No

Remarks:

Hydrophytic Vegetation Present?

Yes No

Wetland Hydrology Present?

Yes No

Hydric Soils Present?

Yes No

This Sampling Point a Wetland?

Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Pr-WOL11

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middle Field
 COUNTY: Georgia
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 5/8/02

APPLICANT/OWNER: FE
 COMMUNITY ID: PSS
 TRANSECT ID: - East side SW Rd
 PLOT ID: RTW 106 B

Do Normal Circumstances Exist On The Site?
 Is The Site Significantly and Recently Disturbed? (Atypical Situation)
 Is The Area A Potential Problem Area? (Explain in Remarks)

☒ Yes
☐ No

☐ Yes
☒ No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex Amphidola</u>	<u>14</u>	<u>FAC</u>	9.		
2. <u>Viburnum racemiflorum</u>	<u>8</u>	<u>FACW</u>	10.		
3. <u>Gutierrezia serotina</u>	<u>14</u>	<u>FAC</u>	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present:

☒ Yes☐ No100

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

☒ Stream, Lake, or Tide Group☐ Aerial Photographs☐ Other☐ None Available

PRIMARY INDICATORS:

☐ Inundated☐ Saturated in the Upper 12 inches☐ Water Marks☐ Drift Lines☐ Sediment Deposits☒ Drainage Patterns in Wetlands

Wetland Hydrology Present?

☒ Yes☐ No

Remarks:

FIELD OBSERVATIONS:

Depth of Surface Water:

Depth of Free Water in Pit:

Depth to Saturated Soils:

NA
NA
NA

(inches)

(inches)

(inches)

SECONDARY INDICATORS:

☐ Oxidized Root Channels in Upper 12 inches☐ Water Stained Leaves☐ Local Soil Survey Data☐ FAC-Neutral Test☐ Other (Explain in Remarks)

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-10</u>	<u>A</u>	<u>2.5Y 3/3</u>			
<u>10-14</u>	<u>B</u>	<u>2.5Y 5/2</u>	<u>10YR 5/8</u>	<u>10mm</u>	<u>silty</u>
	<u>C</u>				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

☐ Histosol☐ Histic Epipedon☐ Sulfidic Odor☐ Aquic Moisture Regime☐ Reducing Conditions☒ Gleyed/ Low-Chroma Soils☐ Concretions☐ Organic Streaking in Sandy Soils☐ Listed on Local Hydric Soils List☐ Listed on National Hydric Soils List☐ Other (see Remarks)

Hydric Soils Present?

☐ Yes☐ No

Remarks:

Hydrophytic Vegetation Present?

☒ Yes☐ No

Wetland Hydrology Present?

☒ Yes☐ No

Hydric Soils Present?

☒ Yes☐ No

Is This Sampling Point a Wetland?

☒ Yes☐ No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
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		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Pr-W0012

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middle Field
COUNTY: Genoa
STATE: OH
INVESTIGATORS: Robert Repasky
DATE: 5/8/02

APPLICANT/OWNER: FE
COMMUNITY ID: PSS
TRANSECT ID: - East side SUN Rd
PLOT ID: RTW 106 B

Do Normal Circumstances Exist On The Site?
Is The Site Significantly and Recently Disturbed? (Atypical Situation)
Is The Area A Potential Problem Area? (Explain in Remarks)

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☒ No ☐

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex Amphioxys</u>	<u>1+</u>	<u>FAC</u>	9.		
2. <u>Viburnum racemiflorum</u>	<u>5</u>	<u>FACW</u>	10.		
3. <u>Gutierrezia gracilis</u>	<u>1+</u>	<u>FAC</u>	11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present:

Yes ☒ No ☐

100

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

☒ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

☐ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
Depth of Free Water in Pit: NA (inches)
Depth to Saturated Soils: NA (inches)

SECONDARY INDICATORS:

☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present?

Yes ☒ No ☐

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Drainage Class:

Field Observation Confirm Mapped Type: Yes ☐ No ☐

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-10</u>	<u>A</u>	<u>2.5Y 3/3</u>			
<u>10-16</u>	<u>B</u>	<u>2.5Y 5/2</u>	<u>10YR 5/8</u>	<u>10m opa</u>	<u>silt/clay</u>
	<u>C</u>				

HYDRIC SOIL INDICATORS:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils

☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? Yes ☐ No ☐

Remarks:

Hydrophytic Vegetation Present? Yes ☒ No ☐

Wetland Hydrology Present? Yes ☒ No ☐

Hydric Soils Present? Yes ☒ No ☐

This Sampling Point a Wetland? Yes ☒ No ☐

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
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		15	
		16	

05-W043

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138kv</u>		Date: <u>23 May 07</u>
Applicant/Owner: _____		County: <u>Crawson</u>
Investigator: <u>Kooser / Thoney</u>		State: <u>OH</u>
Do Normal Circumstances Exist on the site? <u>Yes</u> No Is the site significantly disturbed (Atypical Situation)? <u>Yes</u> No Is the area a potential Problem Area? <u>Yes</u> No (If needed, explain on reverse.)		Community ID: <u>PEM</u> Transect ID: _____ Plot ID: <u>JK-0523-1</u>

VEGETATION

pic #2

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Juncus effusus</u>	<u>H</u>	<u>FACW+</u>	9. _____	_____	_____
2. <u>Phalaris arundinacea</u>	<u>H</u>	<u>FACW+</u>	10. _____	_____	_____
3. <u>Ranunculus acris</u>	<u>H</u>	<u>FAC+</u>	11. _____	_____	_____
4. <u>Carex sp.</u>	<u>H</u>	<u>FAC+</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: This wetland is in pasture and along side pasture

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ___ Inundated <u>✓</u> Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits <u>✓</u> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12" <u>✓</u> Water-Stained Leaves ___ Local Soil Survey Data <u>✓</u> FAC-Neutral Test ___ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	
Remarks: <u>slight drainage through center of wetland</u>	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2	A	2.5Y 4/2	N/A	N/A	silty clay
2-10	B	2.5Y 5/1	10YR 5/8	common/distinct	silty clay

Hydric Soil Indicators:

☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☐ Gleyed or Low-Chroma Colors	☐ Concretions ☐ High Organic Content in Surface Layer Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other (Explain in Remarks)
--	---

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <u>Yes</u> No (Circle) Wetland Hydrology Present? <u>Yes</u> No Hydric Soils Present? <u>Yes</u> No	Is this Sampling Point Within a Wetland? <u>Yes</u> No
Remarks: PEM PIC #2	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138 kv</u> Applicant/Owner: _____ Investigator: <u>Roeser / Thomayer</u>	Date: <u>23 May 07</u> County: <u>Greene</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☐ No Is the area a potential Problem Area? ☐ Yes ☐ No (If needed, explain on reverse.)	Community ID: _____ Transect ID: _____ Plot ID: <u>JK-upl-1</u>

VEGETATION*pic #1*

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex vulpinoidea</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Juncus effusus</u>	<u>H</u>	<u>FACW+</u>	10. _____	_____	_____
3. <u>Ranunculus acris</u>	<u>H</u>	<u>FAC+</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Middle of farmer's mow field

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12" ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	
Remarks: _____	

Pr-W04/41

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138 kv</u> Applicant/Owner: _____ Investigator: <u>Kooser/Thomayer</u>	Date: <u>23 May 07</u> County: <u>Greene</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☐ No Is the area a potential Problem Area? ☐ Yes ☐ No (If needed, explain on reverse.)	Community ID: <u>P55</u> Transect ID: _____ Plot ID: <u>JK-0573-2</u>

VEGETATION

pics 3-5

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	9. Carex echinata	<u>H</u>	<u>OBL</u>
2. <u>Viburnum dentatum</u>	<u>H</u>	<u>FAC</u>	10. <u>Oxyclea sensibilis</u>	<u>H</u>	<u>FACW</u>
3. <u>Fraxinus pennsylvanica</u>	<u>H</u>	<u>FACW</u>	11. <u>Cornus amomum</u>	<u>S</u>	<u>FACW</u>
4. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Salix nigra</u>	<u>T</u>	<u>FACW+</u>	13. _____	_____	_____
6. <u>Salix lucida</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Carex vulpinoidea</u>	<u>H</u>	<u>OBL</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12" ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138kv</u> Applicant/Owner: _____ Investigator: <u>Kooser / Thayer</u>	Date: <u>23 May 07</u> County: <u>Greoga</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? <u>Yes</u> No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse.)	Community ID: <u>PEM</u> Transect ID: _____ Plot ID: <u>JK-0523-3</u>

VEGETATION

pic 10-13

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Viburnum dentatum</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Oxyclea sensibilis</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Cornus amomum</u>	<u>S</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Fraxinus pennsylvanica</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Prunus serotina</u>	<u>T</u>	<u>FACU</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>H</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Typha angustifolia</u>	<u>H</u>	<u>OBL</u>	16. _____	_____	_____
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): <u>88%</u>					
Remarks: _____					

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ___ Inundated <u>✓</u> Saturated in Upper 12 Inches <u>✓</u> Water Marks ___ Drift Lines ___ Sediment Deposits <u>✓</u> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12" <u>✓</u> Water-Stained Leaves ___ Local Soil Survey Data <u>✓</u> FAC-Neutral Test ___ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	Remarks: <u>open water areas, frogs observed</u>

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2	A	10YR 3/2	—	—	silty clay
2-11	B	2.5Y 4/1	10YR 5/6	few/distinct	silty clay

Hydric Soil Indicators:

☐ Histosol	☐ Concretions
☐ Histic Epipedon	☐ High Organic Content in Surface Layer Sandy Soils
☐ Sulfidic Odor	☐ 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 (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes No (Circle) Wetland Hydrology Present? ☒ Yes No Hydric Soils Present? ☒ Yes No	Is this Sampling Point Within a Wetland? ☒ Yes No
Remarks: PEN pic 10-13	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138 kv</u> Applicant/Owner: _____ Investigator: <u>Kooser / Thonayer</u>	Date: <u>23 May 07</u> County: <u>Greene</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? <u>Yes</u> No Is the site significantly disturbed (Atypical Situation)? Yes No Is the area a potential Problem Area? Yes No (If needed, explain on reverse.)	Community ID: <u>PFO/PEM</u> Transect ID: _____ Plot ID: <u>JK-0523-4</u>

VEGETATION*pic 16-18*

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Liriodendron tulipifera</u>	<u>T</u>	<u>FACU</u>	9. <u>Phalaris arundinacea</u>	<u>H</u>	<u>FACW</u>
2. <u>Fagus grandifolia</u>	<u>T</u>	<u>FACU</u>	10. <u>Cornus florida</u>	<u>T</u>	<u>FACU-</u>
3. <u>Acer saccharum</u>	<u>T</u>	<u>FACU-</u>	11. _____	_____	_____
4. <u>Sorbus effusus</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Viburnum dentatum</u>	<u>H</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Hamamelis virginiana</u>	<u>T</u>	<u>FAC-</u>	15. _____	_____	_____
8. <u>Oxyclea sensibilis</u>	<u>H</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 50%

Remarks: _____

HYDROLOGY

_____ Recorded Data (Describe in Remarks): _____ Stream, Lake, or Tide Gauge _____ Aerial Photographs _____ Other _____ No Recorded Data Available	Wetland hydrology indicators: Primary Indicators: _____ Inundated <u>X</u> Saturated in Upper 12 Inches <u>X</u> Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): _____ Oxidized Root Channels in Upper 12" <u>X</u> Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	Remarks: _____

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE

COUNTY

STATE

INVESTIGATORS

DATE 5/23/07

APPLICANT OWNER F.E.

COMMUNITY ID

TRANSECT ID

PLOT ID

PFO
JK-0523-5

Do Normal Circumstances Exist On The Site?

Yes

No

Is The Site Significantly and Recently Disturbed? (Atypical Situation)

Yes

No

Is The Area A Potential Problem Area? (Explain in Remarks)

Yes

No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Acer rubrum</i>	T	FAC	9.		
2. <i>Viburnum acerifolium</i>	S	FACW	10.		
3. <i>Lycopersicon - plantain</i>	H	FAC	11.		
4. <i>Tox. rad. can</i>	✓/H	FAC	12.		
5. <i>Lindera borealis</i>	S	FAC	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-): 100

Hydrophytic Vegetation Present

Yes

No

Remarks

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

Stream, Lake, or Tide Group

Aerial Photographs

Other

None Available

PRIMARY INDICATORS

Inundated

Saturated in the Upper 12 inches

Water Marks

Drift Lines

Sediment Deposits

Drainage Patterns in Wetlands

FIELD OBSERVATIONS

Depth of Surface Water: 0 - 12 (inches)

Depth of Free Water in Pit: 301 ft (inches)

Depth to Saturated Soils: 50 ft (inches)

SECONDARY INDICATORS:

Oxidized Root Channels in Upper 12 inches

Water Stained Leaves

Local Soil Survey Data

FAC Neutral Test

Other (Explain in Remarks)

Wetland Hydrology Present?

Yes

No

Remarks

SOILS

Map Unit Name (Series and Phase)

Taxonomy (Subgroup)

Drainage Class:

Field Observation Confirm Mapped Type:

Yes

No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-12	A	10 YR 3/1	10 YR 8/2	F/D	S.H/oa
	B				
	C				

HYDRIC SOIL INDICATORS:

Histosol

Histic Epipedon

Sulfidic Odor

Aquic Moisture Regime

Reducing Conditions

Gleyed/ Low-Chroma Soils

Concretions

Organic Streaking in Sandy Soils

Listed on Local Hydric Soils List

Listed on National Hydric Soils List

Other (see Remarks)

Hydric Soils Present?

Yes

No

Remarks

Hydrophytic Vegetation Present?

Yes

No

Wetland Hydrology Present?

Yes

No

Hydric Soils Present?

Yes

No

Is This Sampling Point a Wetland?

Yes

No

Remarks

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Pr-w0418

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE:
 COUNTY:
 STATE:
 INVESTIGATORS: Robert Repasky
 DATE: 5/8/0

APPLICANT OWNER: FE
 COMMUNITY ID:
 TRANSECT ID: V Pool - PFO
 PLOT ID: RTW 112 - Link to 111

Do Normal Circumstances Exist On The Site?
 Is The Site Significantly and Recently Disturbed? (Atypical Situation)
 Is The Area A Potential Problem Area? (Explain in Remarks)

Yes No
 Yes No
 Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Acer rubrum</i>	T	FAC	9.		
2. <i>Urtica dioica</i>	S	FACW	10.		
3. <i>Lythrum hyssopifolium</i>	H	FAC	11.		
4. <i>Toxicaria radicans</i>	✓/H	FAC	12.		
5. <i>Pinus strobus</i>	S	FAC	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-): 100

Hydrophytic Vegetation Present:

Yes No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

Stream, Lake, or Tide Group
 Aerial Photographs
 Other
 None Available

PRIMARY INDICATORS:

☒ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 0 - 12 (inches)
 Depth of Free Water in Pit: surface (inches)
 Depth to Saturated Soils: surface (inches)

SECONDARY INDICATORS:

☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present?

Yes No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Drainage Class:

Taxonomy (Subgroup):

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-12	A	10 YR 3/1	10 YR 5/2	F/D.	S.H/OA
	B				
	C				

HYDRIC SOIL INDICATORS:

☐ Histosol
☒ Histic Epipedon
☒ Sulfidic Odor
☐ Aquic Moisture Regime

☒ Reducing Conditions
☒ Gleyed / Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils

☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present?

Yes No

Remarks:

Hydrophytic Vegetation Present?

Yes

No

Wetland Hydrology Present?

Yes

No

Hydric Soils Present?

Yes

No

Is This Sampling Point a Wetland?

Yes

No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middlebrook
 COUNTY: DeWitt
 STATE: NY
 INVESTIGATORS: Robert Repasky
 DATE: 5/8/07

APPLICANT OWNER: F.E.
 COMMUNITY ID: PEM-33-FO
 TRANSECT ID:
 PLOT ID: RTW111

Do Normal Circumstances Exist On The Site? Yes
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes

No
 No
 No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Quercus sensib.</u>	<u>11</u>	<u>OBL</u>	9.		
2. <u>Tamarix</u>	<u>H</u>	<u>FACW</u>	10.		
3. <u>Cornus Amomifolia</u>	<u>H</u>	<u>FAC</u>	11.		
4. <u>Cornus stolonifera</u>	<u>S</u>	<u>FACW</u>	12.		
5. <u>V. sp.</u>	<u>S</u>	<u>FACW</u>	13.		
6. <u>Phragmites</u>	<u>T</u>	<u>FACW</u>	14.		
7. <u>Populus deltoides</u>	<u>T</u>	<u>FAC</u>	15.		
8. <u>Sparganium angustifolium</u>	<u>S</u>	<u>FACW</u>	16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No

Remarks: 8C

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- ☒ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

- ☐ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
 Depth of Free Water in Pit: >16 (inches)
 Depth to Saturated Soils: 50 ft (inches)

SECONDARY INDICATORS:

- ☒ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present?

Yes

No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-12	A	10YR 6/1	10YR 5/8	M	
	B				
	C				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

- ☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed / Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present?

Yes

No

Remarks:

Hydrophytic Vegetation Present?

Yes

No

Wetland Hydrology Present?

Yes

No

Hydric Soils Present?

Yes

No

Is This Sampling Point a Wetland?

Yes

No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
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		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: M. d. d. d. S. d. d.
 COUNTY: Genesee
 STATE: NY
 INVESTIGATORS: Robert Repasky
 DATE: 5-9-07

APPLICANT OWNER: FE
 COMMUNITY ID: 7 FD / 55
 TRANSECT ID:
 PLOT ID: RTW 113

Do Normal Circumstances Exist On The Site? Yes
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes

No
No
No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>V. b. n. R. c. g. n. d.</u>	<u>S</u>	<u>FACW</u>	9. <u>Carex L. b. d. i. o. b.</u>	<u>H</u>	<u>FACW</u>
2. <u>Thypha angustifolia</u>	<u>H</u>	<u>FACW</u>	10. <u></u>	<u></u>	<u></u>
3. <u>Sagittaria arifolia</u>	<u>H</u>	<u>FACW</u>	11. <u></u>	<u></u>	<u></u>
4. <u>Potamogeton amplifolius</u>	<u>H</u>	<u>FAC</u>	12. <u></u>	<u></u>	<u></u>
5. <u>Cyperus</u>	<u>S</u>	<u>FAC</u>	13. <u></u>	<u></u>	<u></u>
6. <u>Salix nigra</u>	<u>S</u>	<u>FACW</u>	14. <u></u>	<u></u>	<u></u>
7. <u>Carex lasiocarpa</u>	<u>S</u>	<u>FACW</u>	15. <u></u>	<u></u>	<u></u>
8. <u>Smilax latifolia</u>	<u>H</u>	<u>OBL</u>	16. <u></u>	<u></u>	<u></u>

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-): 71% 28%

Hydrophytic Vegetation Present: Yes No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

☒ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

☐ Inundated
☒ Saturated in the Upper 12 inches
☒ Water Marks
☒ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

Wetland Hydrology Present? Yes No

Remarks:

FIELD OBSERVATIONS

Depth of Surface Water: 3" (inches)
 Depth of Free Water in Pit: surface (inches)
 Depth to Saturated Soils: surface (inches)

SECONDARY INDICATORS:

☒ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup)

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-8</u>	<u>A</u>	<u>10YR 7/1</u>	<u>10YR 4/6</u>	<u>M/D</u>	<u>S. H. / clay</u>
<u>8-17</u>	<u>B</u>	<u>10YR 10/1</u>	<u>10YR 4/6</u>	<u>M/D</u>	<u>S. H. / clay</u>
	<u>C</u>				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed / Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils

☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? Yes No

Remarks:

Hydrophytic Vegetation Present? Yes No

Wetland Hydrology Present? Yes No

Hydric Soils Present? Yes No

Is This Sampling Point a Wetland? Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Pr - 001
wetland ML - 002
wet ml2

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML LB</u>	Date: <u>4/29/07</u> County: <u>Geauga</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PEW</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Boehmeria cylindrica</u>	<u>Herb</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Carex sp</u>	<u>Herb</u>	<u>-</u>	10. _____	_____	_____
3. <u>Lindera benzoin</u>	<u>shrub</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Lysimachia ciliata</u>	<u>Herb</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Ribes lanceolatum</u>	<u>Herb</u>	<u>FACW</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-: 100%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>10</u> (in.) Depth to Saturated Soil: <u>8</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ☒ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ☒ Water-Stained Leaves ___ Local Soil Survey Data ☒ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-12	A/B	10YR 5/1	7.5YR 5/8	5%	silt, loam

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point	
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland?	Yes ___ No ___
Hydric Soils Present?	Yes ☒ No ☐		

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>m. d. d. d. d. d. d.</u>	Date: <u>6/29/07</u>
Applicant / Owner: <u>First Energy</u>	County: <u>Georgia</u>
Investigator: <u>ML, LB</u>	State: <u>GA</u>
Do normal circumstances exist on the site? Yes ☒ No ☐	Community ID: <u>Upland Forest</u>
Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒	Transect ID: _____
Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carya cordiformis</u>	<u>Tree</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Acer saccharum</u>	<u>Tree</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Fagus grandifolia</u>	<u>Tree</u>	<u>FACU</u>	11. _____	_____	_____
4. <u>Polystichum acrostichoides</u>	<u>Herb</u>	<u>FACU-</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 0%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ___ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name

(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-6	A1B	10YR 4/3	—	—	Silty clay loam
6-	rock	—	—	—	—

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ___ No ☒	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No ☒	Within a Wetland?	Yes ___ No ___
Hydric Soils Present?	Yes ___ No ☒		

Remarks:

pr - W032
wetland mL 001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

wet ml 2

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML LB</u>	Date: <u>6/29/07</u> County: <u>Geauga</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PFO/PSS</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex lasiocarpa</u>	<u>Herb</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Grass</u>	<u>Herb</u>	<u>-</u>	10. _____	_____	_____
3. <u>Rhamnus frangula</u>	<u>shrub</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>Tree</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Rosa palustris</u>	<u>shrub</u>	<u>FACW</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-: 100

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>10</u> (in.) Depth to Saturated Soil: <u>6</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ☒ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ☒ Water-Stained Leaves ___ Local Soil Survey Data ☒ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name

(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (Inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3	A	10YR 6/1	10YR 7/1	20%	silty clay
3-12	B	10YR 4/1	10YR 5/1	5%	silty clay

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland? Yes ___ No ___
Hydric Soils Present?	Yes ☒ No ☐	

Remarks:

Dr - W03 + WPL
Wetland upland mLI

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML-1 B</u>	Date: <u>7/29/07</u> County: <u>Seavus</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>Young upland</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Prunus serotina</u>	<u>Tree</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Pinus strobus</u>	<u>Tree</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Cornus Florida</u>	<u>Shrub</u>	<u>FACU</u>	11. _____	_____	_____
4. <u>Viburnum dentatum</u>	<u>Shrub</u>	<u>FACU</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>Tree</u>	<u>FAC</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 0%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ___ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name(Series and Phase): _____ **Drainage Class:** _____**Taxonomy (Subgroup):** _____ **Confirm Mapped Type?** Yes ___ No ___**Profile Description:**

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-12	A/B	10YR 4/3	—	—	Silty clay loam

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	Yes ___ No ☒	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No ☒	Within a Wetland?	Yes ___ No ___
Hydric Soils Present?	Yes ___ No ☒		

Remarks:

PR-W003
Wetland ML 001

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

wet ml 2

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML LB</u>	Date: <u>6/29/07</u> County: <u>Geauga</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PFO/PSS</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex lupulina</u>	<u>Herb</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Grass</u>	<u>Herb</u>	<u>-</u>	10. _____	_____	_____
3. <u>Rhamnus frangula</u>	<u>shrub</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>Tree</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Rosa palustris</u>	<u>shrub</u>	<u>FACW</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-. 100

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>10</u> (in.) Depth to Saturated Soil: <u>6</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ☒ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ☒ Water-Stained Leaves ___ Local Soil Survey Data ☒ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:					
Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3	A	10YR 6/1	10YR 7/8	20%	silty clay
3-12	B	10YR 4/1	10YR 5/6	5%	silty clay

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland? Yes ☐ No ☐
Hydric Soils Present?	Yes ☒ No ☐	

Remarks:

Pr-w0055461
Wetland Upland MLI

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML 1 B</u>	Date: <u>7/29/07</u> County: <u>Seavus</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes <u>L</u> No <u> </u> Is the site significantly disturbed (Atypical situation)? Yes <u> </u> No <u>L</u> Is the area a potential problem area? Yes <u> </u> No <u>L</u> (explain on reverse if needed)	Community ID: <u>Youngs upland</u> Transect ID: <u> </u> Plot ID: <u> </u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Prunus serotina</u>	<u>Tree</u>	<u>FACU</u>	9. <u> </u>	<u> </u>	<u> </u>
2. <u>Pinus strobus</u>	<u>Tree</u>	<u>FACU</u>	10. <u> </u>	<u> </u>	<u> </u>
3. <u>Cornus Florida</u>	<u>Shrub</u>	<u>FACU</u>	11. <u> </u>	<u> </u>	<u> </u>
4. <u>Viburnum dentatum</u>	<u>Shrub</u>	<u>FACU</u>	12. <u> </u>	<u> </u>	<u> </u>
5. <u>Acer rubrum</u>	<u>Tree</u>	<u>FAC</u>	13. <u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	14. <u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	15. <u> </u>	<u> </u>	<u> </u>
8. <u> </u>	<u> </u>	<u> </u>	16. <u> </u>	<u> </u>	<u> </u>

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 0%

Remarks:

HYDROLOGY

<u> </u> Recorded Data (Describe in Remarks): <u> </u> Stream, Lake, or Tide Gauge <u> </u> Aerial Photographs <u> </u> Other <u> </u> No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	Wetland Hydrology Indicators Primary Indicators: <u> </u> Inundated <u> </u> Saturated in Upper 12" <u> </u> Water Marks <u> </u> Drift Lines <u> </u> Sediment Deposits <u> </u> Drainage Patterns in Wetlands Secondary Indicators: <u> </u> Oxidized Roots Channels in Upper 12" <u> </u> Water-Stained Leaves <u> </u> Local Soil Survey Data <u> </u> FAC-Neutral Test <u> </u> Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (Inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-12	A/B	10YR 4/3	—	—	silty clay loam

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ___ No <u>✓</u>	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No <u>✓</u>	Within a Wetland?	Yes ___ No ___
Hydric Soils Present?	Yes ___ No <u>✓</u>		

Remarks:

PT-W0541

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middlefield
 COUNTY: Geauga
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 5/9/03

APPLICANT OWNER: FE
 COMMUNITY ID: PFD
 TRANSECT ID: 600 plus
 PLOT ID: RTW-114

Do Normal Circumstances Exist On The Site? Yes
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes

No
 No
 No

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9.		
2. Acer saccharum	T	FACW	10.		
3. Ulmus rubra	T	FACW	11.		
4. Vitis pec.	S	FACW	12.		
5. Erythronium americanum	H	FACW	13.		
6. Onoclea	H	OBL	14.		
7. Prunus serotina	T/S/H	FACW	15.		
8. Tax canad.	V	FAC	16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-)

Hydrophytic Vegetation Present:

(Yes) No

63

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

- ☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

- ☒ Inundated
☒ Saturated in the Upper 12 inches
☒ Water Marks
☒ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 0-5 (inches)
 Depth of Free Water in Pit: surface 10 (inches)
 Depth to Saturated Soils: surface (inches)

SECONDARY INDICATORS:

- ☒ Oxidized Root Channels in Upper 12 inches
☒ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present?

(Yes) No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-6	A	10 YR 2/1			
	B	10 YR 5/1	10-12 5/8	Many / Fine	S-PT/200
	C				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

- ☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☒ Concretions
☐ Organic Streaking in Sandy Soils

- ☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present?

(Yes) No

Remarks:

Hydrophytic Vegetation Present?

(Yes) No

Wetland Hydrology Present?

(Yes) No

Hydric Soils Present?

(Yes) No

Is This Sampling Point a Wetland?

(Yes) No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Pr - W055

1987 USACE MINIMAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middle field
COUNTY: Geauga
STATE: OH
INVESTIGATORS: Robert Repasky
DATE: 5/9/03

APPLICANT OWNER: FE
COMMUNITY ID: PFD
TRANSECT ID: 10
PLOT ID: RTW-114

Do Normal Circumstances Exist On The Site? Yes
Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes
Is The Area A Potential Problem Area? (Explain in Remarks) No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer rubrum	T	FAC	9.		
2. Acer saccharum	T	FACW	10.		
3. Ulmus rubra	T	FACW	11.		
4. Vitis sp.	S	FACW	12.		
5. Corylus americana	H	FACW	13.		
6. Quercus	H	OBL	14.		
7. Prunella sp.	T/S/U	FACW	15.		
8. Tax. lat.	V	FAC	16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-)

Hydrophytic Vegetation Present: Yes

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

Stream, Lake, or Tide Group
Aerial Photographs
Other
None Available

FIELD OBSERVATIONS

Depth of Surface Water: 0-5 (inches)
Depth of Free Water in Pit: 30-40 (inches)
Depth to Saturated Soils: 50-60 (inches)

PRIMARY INDICATORS

1. Inundated
2. Saturated in the Upper 12 inches
3. Water Marks
4. Drift Lines
5. Sediment Deposits
6. Drainage Patterns in Wetlands

SECONDARY INDICATORS

7. Oxidized Root Channels in Upper 12 inches
8. Water Stained Leaves
9. Local Soil Survey Data
10. FAC-Neutral Test
11. Other (Explain in Remarks)

Wetland Hydrology Present? Yes

Remarks:

SOILS:

Map Unit Name (Series and Phase)
Taxonomy (Subgroup)

Drainage Class

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-1	A	10 YR 2/1			
	B	10 YR 5/1	10 YR 5/8	Abundant / 1	5-10 cm
	C				

HYDRIC SOIL INDICATORS

Histosol
Histic Epipedon
Sulfidic Odor
Aquic Moisture Regime
Reducing Conditions
Gleyed/ Low-Chlorine Soils
Concretions
Organic Streaking in Sandy Soils
Listed on Local Hydric Soils List
Listed on National Hydric Soils List
Other (see Remarks)

Hydric Soils Present? Yes

Remarks:

Hydrophytic Vegetation Present? Yes

Wetland Hydrology Present? Yes

Hydric Soils Present? Yes

Is This Sampling Point a Wetland? Yes

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

PT-W056

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE Middlefield
 COUNTY Geauga
 STATE OH
 INVESTIGATORS Robert Repasky
 DATE 5/9/07

APPLICANT OWNER FE
 COMMUNITY ID PFS
 TRANSECT ID 10
 PLOT ID RTW-119

Do Normal Circumstances Exist On The Site? Yes No
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes No
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	9.		
2. <u>Acer saccharum</u>	<u>T</u>	<u>FAC</u>	10.		
3. <u>Viburnum</u>	<u>T</u>	<u>FAC</u>	11.		
4. <u>Viburnum</u>	<u>S</u>	<u>FAC</u>	12.		
5. <u>Fraxinus</u>	<u>H</u>	<u>FAC</u>	13.		
6. <u>Quercus</u>	<u>H</u>	<u>OBL</u>	14.		
7. <u>Prunus</u>	<u>T/S/H</u>	<u>FAC</u>	15.		
8. <u>Corylus</u>	<u>V</u>	<u>FAC</u>	16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-) 63
 Hydrophytic Vegetation Present Yes No
 Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

FIELD OBSERVATIONS

Depth of Surface Water 0-5 (inches)
 Depth of Free Water in Pit surface to 10 (inches)
 Depth to Saturated Soils surface to 10 (inches)

PRIMARY INDICATORS

☐ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☒ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

SECONDARY INDICATORS

☒ Oxidized Root Channels in Upper 12 inches
☒ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? Yes No
 Remarks:

SOILS:

Map Unit Name (Series and Phase)
 Taxonomy (Subgroup)

Drainage Class
 Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-6</u>	<u>A</u>	<u>10 YR 5/1</u>			
	<u>B</u>	<u>10 YR 5/1</u>	<u>10-10 5/1</u>	<u>Many / 1</u>	<u>S / 100</u>
	<u>C</u>				

HYDRIC SOIL INDICATORS:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed / Low-Chroma Soils
☒ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? Yes No
 Remarks:

Hydrophytic Vegetation Present? Yes No
 Wetland Hydrology Present? Yes No
 Hydric Soils Present? Yes No
 Is This Sampling Point a Wetland? Yes No
 Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

1987 USACE MINIMAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middlefield
 COUNTY: Georgia
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 5/9/07

APPLICANT OWNER: FE
 COMMUNITY ID: PFO 10
 TRANSECT ID:
 PLOT ID: RTW-114

Do Normal Circumstances Exist On The Site? Yes
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes

Yes
 No
 No
 No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	9.		
2. <u>Acer saccharum</u>	<u>T</u>	<u>FAC</u>	10.		
3. <u>Ulmus rubra</u>	<u>T</u>	<u>FAC</u>	11.		
4. <u>Vib. rac.</u>	<u>S</u>	<u>FACW</u>	12.		
5. <u>Cory. americana</u>	<u>H</u>	<u>FACW</u>	13.		
6. <u>Opuntia</u>	<u>H</u>	<u>OBL</u>	14.		
7. <u>Prunus serotina</u>	<u>T/S/H</u>	<u>FACW</u>	15.		
8. <u>Tox. rad.</u>	<u>V</u>	<u>FAC</u>	16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-)

Hydrophytic Vegetation Present

Remarks:

(Yes) No

63

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS

☒ Inundated
☒ Saturated in the Upper 12 inches
☒ Water Marks
☒ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS

Depth of Surface Water: 0-5 (inches)
 Depth of Free Water in Plot: 30-40 (inches)
 Depth to Saturated Soils: 50-60 (inches)

SECONDARY INDICATORS

☒ Oxidized Root Channels in Upper 12 inches
☒ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present?

Remarks:

(Yes) No

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup)

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-1	A	10YR 2/1			
	B	10YR 5/1	10YR 5/4	MA-1/2	S-F-100
	C				

Drainage Class

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☒ Concretions
☐ Organic Streaking in Sandy Soils

☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present?

Remarks:

(Yes) No

Hydrophytic Vegetation Present?

Wetland Hydrology Present?

Hydric Soils Present?

Is This Sampling Point a Wetland?

Remarks:

(Yes) No
 (Yes) No
 (Yes) No
 (Yes) No

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Pr-w 058

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middlefield
 COUNTY: Georgia
 STATE: GA
 INVESTIGATORS: Robert Repasky
 DATE: 5/9/07

APPLICANT OWNER: FE
 COMMUNITY ID: PFO
 TRANSECT ID: 10
 PLOT ID: RTW-114

Do Normal Circumstances Exist On The Site?

Yes

No

Is The Site Significantly and Recently Disturbed? (Atypical Situation)

Yes

No

Is The Area A Potential Problem Area? (Explain in Remarks)

Yes

No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acacia robusta</u>	<u>T</u>	<u>FAC</u>	9.		
2. <u>Acacia saccharum</u>	<u>T</u>	<u>FACW</u>	10.		
3. <u>Ulmus rubra</u>	<u>T</u>	<u>FAC</u>	11.		
4. <u>Vib. spec.</u>	<u>S</u>	<u>FACW</u>	12.		
5. <u>Cory. fluminea</u>	<u>American H</u>	<u>FACW</u>	13.		
6. <u>Onoclea</u>	<u>H</u>	<u>OBL</u>	14.		
7. <u>Prunella serotina</u>	<u>15/16</u>	<u>FACW</u>	15.		
8. <u>Tox. (A)</u>	<u>✓</u>	<u>FAC</u>	16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-)

Hydrophytic Vegetation Present:

Yes

No

Remarks:

63

HYDROLOGY

RECORDED DATA (Describe in Remarks)

☐ Stream, Lake, or Tide Group☐ Aerial Photographs☐ Other☐ None Available

FIELD OBSERVATIONS

Depth of Surface Water

0-5

(inches)

Depth of Free Water in Pit

30-40

(inches)

Depth to Saturated Soils

50-60

(inches)

PRIMARY INDICATORS

☒ Inundated☒ Saturated in the Upper 12 inches☒ Water Marks☒ Drift Lines☒ Sediment Deposits☒ Drainage Patterns in Wetlands

SECONDARY INDICATORS

☒ Oxidized Root Channels in Upper 12 inches☒ Water Stained Leaves☐ Local Soil Survey Data☐ FAC-Neutral Test☐ Other (Explain in Remarks)

Wetland Hydrology Present?

Yes

No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup)

Drainage Class

Field Observation Confirms Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-1	A	10 YR 2/1			
	B	10 YR 5/1	10 YR 5/8	Mass / 1	S / 1-2
	C				

HYDRIC SOIL INDICATORS

☐ Histosol☐ Histic Epipedon☐ Sulfidic Odor☐ Aquic Moisture Regime☐ Reducing Conditions☒ Gleyed/ Low-Chroma Soils☒ Concretions☐ Organic Streaking in Sandy Soils☐ Listed on Local Hydric Soils List☐ Listed on National Hydric Soils List☐ Other (see Remarks)

Hydric Soils Present?

Yes

No

Remarks:

Hydrophytic Vegetation Present?

Yes

No

Wetland Hydrology Present?

Yes

No

Hydric Soils Present?

Yes

No

Is This Sampling Point a Wetland?

Yes

No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
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		12	
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		14	
		15	
		16	

Dr-W059

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middlesex
 COUNTY: Geauga
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 3/9/07

APPLICANT OWNER: FE
 COMMUNITY ID:
 TRANSECT ID: PFO/SS
 PLOT ID: W115

Do Normal Circumstances Exist On The Site? Yes No
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes No
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>V. lucorum</u>	<u>S</u>	<u>FACW</u>	9.		
2. <u>Phalaris arundinacea</u>	<u>T/S</u>	<u>FACW</u>	10.		
3. <u>Carex lasiocarpa</u>	<u>H</u>	<u>FAC</u>	11.		
4. <u>Juncus roemerianus</u>	<u>H</u>	<u>FACW</u>	12.		
5. <u>Potamogeton amplifolius</u>	<u>S</u>	<u>DBL</u>	13.		
6. <u>Utricularia rubra</u>	<u>S/H</u>	<u>FAC</u>	14.		
7. <u>Cornus sericea</u>	<u>S</u>	<u>FACW</u>	15.		
8. <u>Phalaris arundinacea</u>	<u>H</u>	<u>FACW</u>	16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No 100
 Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

- ☒ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

- ☒ Inundated
☒ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☒ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 1 (inches)
 Depth of Free Water in Pit: (inches)
 Depth to Saturated Soils: (inches)

SECONDARY INDICATORS:

- ☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? Yes No
 Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-12</u>	<u>A</u>	<u>2.5Y 3/1</u>	<u>10YR 3/6</u>	<u>M/D</u>	<u>silt loam</u>
	<u>B</u>				
	<u>C</u>				

HYDRIC SOIL INDICATORS:

- ☐ Histosol
☐ Histic Epipedon
☒ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Sinking in Sandy Soils
☒ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? Yes No
 Remarks:

Hydrophytic Vegetation Present? Yes No
 Wetland Hydrology Present? Yes No
 Hydric Soils Present? Yes No
 Is This Sampling Point a Wetland? Yes No
 Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
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		12	
		13	
		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middle Creek
 COUNTY: Genoa
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 5/9/07

APPLICANT OWNER: FE
 COMMUNITY ID:
 TRANSECT ID:
 PLOT ID: UPC - W15 -

Do Normal Circumstances Exist On The Site? ☐ Yes ☐ No
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) ☐ Yes ☐ No
 Is The Area A Potential Problem Area? (Explain in Remarks) ☐ Yes ☐ No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Fagus americana</u>	<u>I</u>	<u>FAC</u>	9.		
2. <u>Pinus barbatra</u>	<u>F</u>	<u>FACU</u>	10.		
3. <u>Corythodonta flumina</u>	<u>II</u>	<u>FACU</u>	11.		
4. <u>Miantionna gracilis</u>	<u>II</u>	<u>FACU</u>	12.		
5. <u>Hamelus virginiana</u>	<u>B</u>	<u>FAC</u>	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: ☒ YesRemarks: 40%

HYDROLOGY:

RECORDED DATA (Describe in Remarks):

☐ Stream, Lake, or Tide Group☐ Aerial Photographs☐ Other☐ None Available

PRIMARY INDICATORS:

☐ Inundated☐ Saturated in the Upper 12 inches☐ Water Marks☐ Drift Lines☐ Sediment Deposits☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water NA (inches)Depth of Free Water in Pit: > 14 (inches)Depth to Saturated Soils: > 14 (inches)

SECONDARY INDICATORS:

☐ Oxidized Root Channels in Upper 12 inches☐ Water Stained Leaves☐ Local Soil Survey Data☐ FAC-Neutral Test☐ Other (Explain in Remarks)Wetland Hydrology Present? ☒ Yes ☐ No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-4</u>	<u>A</u>	<u>10YR 3/2</u>			
<u>4-12</u>	<u>B</u>	<u>10YR 4/4</u>			
	<u>C</u>				

Drainage Class:

Field Observation Confirm Mapped Type: ☐ Yes ☐ No

HYDRIC SOIL INDICATORS:

☐ Histosol☐ Histic Epipedon☐ Sulfidic Odor☐ Aquic Moisture Regime☐ Reducing Conditions☐ Gleyed/ Low-Chroma Soils☐ Concretions☐ Organic Streaking in Sandy Soils☐ Listed on Local Hydric Soils List☐ Listed on National Hydric Soils List☐ Other (see Remarks)Hydric Soils Present? ☒ Yes ☐ No

Remarks:

Hydrophytic Vegetation Present? ☒ Yes ☐ NoWetland Hydrology Present? ☒ Yes ☐ NoHydric Soils Present? ☒ Yes ☐ NoIs This Sampling Point a Wetland? ☒ Yes ☐ No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML, LB</u>	Date: <u>5/9/07</u> County: <u>Geauga</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes <u>X</u> No <u> </u> Is the site significantly disturbed (Atypical situation)? Yes <u> </u> No <u>X</u> Is the area a potential problem area? Yes <u> </u> No <u>X</u> (explain on reverse if needed)	Community ID: <u>PSS/PEH</u> Transect ID: <u> </u> Plot ID: <u> </u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Cornus amomum</u>	<u>Shrub</u>	<u>FACW</u>	9. <u> </u>	<u> </u>	<u> </u>
2. <u>Ulmus americana</u>	<u>Tree</u>	<u>FACW</u>	10. <u> </u>	<u> </u>	<u> </u>
3. <u>Rosa palustris</u>	<u>Shrub</u>	<u>OBL</u>	11. <u> </u>	<u> </u>	<u> </u>
4. <u>Impatiens capensis</u>	<u>Herb</u>	<u>FACW</u>	12. <u> </u>	<u> </u>	<u> </u>
5. <u>Carex sp</u>	<u>Herb</u>	<u> </u>	13. <u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	14. <u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	15. <u> </u>	<u> </u>	<u> </u>
8. <u> </u>	<u> </u>	<u> </u>	16. <u> </u>	<u> </u>	<u> </u>

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 100%

Remarks:

HYDROLOGY

<u> </u> Recorded Data (Describe in Remarks): <u> </u> Stream, Lake, or Tide Gauge <u> </u> Aerial Photographs <u> </u> Other <u> </u> No Recorded Data Available Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>6</u> (in.) Depth to Saturated Soil: <u>4</u> (in.)	Wetland Hydrology Indicators Primary Indicators: <u> </u> Inundated <u>X</u> Saturated in Upper 12" <u> </u> Water Marks <u> </u> Drift Lines <u> </u> Sediment Deposits <u> </u> Drainage Patterns in Wetlands Secondary Indicators: <u> </u> Oxidized Roots Channels in Upper 12" <u>X</u> Water-Stained Leaves <u> </u> Local Soil Survey Data <u> </u> FAC-Neutral Test <u> </u> Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-12	A/B	2.5Y 5/1	10YR 4/6	15%	silty clay

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point	
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland?	Yes ☐ No ☐
Hydric Soils Present?	Yes ☒ No ☐		

Remarks:

Upland site for
wetland-224
Pr-W060 UPL

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>M.L.B.</u>	Date: <u>5/9/07</u> County: <u>Geauga</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes <u>X</u> No _____ Is the site significantly disturbed (Atypical situation)? Yes _____ No <u>X</u> Is the area a potential problem area? Yes _____ No <u>X</u> (explain on reverse if needed)	Community ID: <u>Oldfield</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Festuca elatior</u>	<u>Herb</u>	<u>UPI</u>	9. _____	_____	_____
2. <u>Juncus effusus</u>	<u>Herb</u>	<u>FACW</u>	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	<u>T</u>	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 50%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ___ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name _____
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-12	A/B	2.5Y 3/3	10YR 5/8	50%	silty clay

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ___ No ☒	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No ☒	Within a Wetland?	Yes ___ No ☒
Hydric Soils Present?	Yes ___ No ☒		

Remarks:

Wetland 225
pr-w061

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Middlefield</u> Applicant/Owner: <u>First Energy</u> Investigator: <u>Mr. LB</u>	Date: <u>5/9/07</u> County: <u>Greene</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Community ID: <u>PEM</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Juncus effusus</u>	<u>Herb</u>	<u>FACw+</u>	9. _____	_____	_____
2. <u>Ranunculus sp</u>	<u>Herb</u>	<u>-</u>	10. _____	_____	_____
3. <u>Carex sp</u>	<u>Herb</u>	<u>-</u>	11. _____	_____	_____
4. <u>Carex sp</u>	<u>Herb</u>	<u>-</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

Recorded Data (Describe in Remarks): _____ Stream, Lake, or Tide Gauge _____ Aerial Photographs _____ Other _____ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: _____ Inundated _____ Saturated in Upper 12 Inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" _____ Water-Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>11</u> (in.) Depth to Saturated Soil: <u>8</u> (in.)	Remarks: _____

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-12	A	10YR4/1	7.5YR3/4	common	silty loam
12	B	2.5Y6/2	10YR6/6	common	silty loam

Hydric Soil Indicators:

☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☒ Gleyed or Low-Chroma Colors	☐ Concretions ☐ High Organic Content in Surface Layer Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other (Explain in Remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No (Circle)	(Circle) Is this Sampling Point Within a Wetland? Yes No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Upland site for
Wetland 225d
Wetland 226
PR-W061 UPL

Project/Site: <u>Middlefield</u> Applicant/Owner: <u>First Energy</u> Investigator: <u>M. L. B.</u>	Date: <u>5/9/07</u> County: <u>Seavus</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? Yes ☒ No Is the site significantly disturbed (Atypical Situation)? Yes ☒ No Is the area a potential Problem Area? Yes ☒ No (If needed, explain on reverse.)	Community ID: <u>Upland Field</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Dactylis glomerata</u>	<u>Herb</u>	<u>UPL</u>	9. _____	_____	_____
2. <u>Unknown grass</u>	<u>Herb</u>	<u>-</u>	10. _____	_____	_____
3. <u>Solidago canadensis</u>	<u>Herb</u>	<u>FACU</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: _____

HYDROLOGY

Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☒ No Recorded Data Available	Wetland hydrology indicators: Primary Indicators: ☐ Inundated ☐ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☐ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
8	A	10YR 3/2	—	—	silt loam
8-14	B	10YR 5/2	—	—	silt loam

Hydric Soil Indicators:

☐ Histosol	☐ Concretions
☐ Histic Epipedon	☐ High Organic Content in Surface Layer Sandy Soils
☐ Sulfidic Odor	☐ 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 (Explain in Remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes ☒ No (Circle) Wetland Hydrology Present? Yes ☒ Hydric Soils Present? Yes ☒	Is this Sampling Point Within a Wetland? Yes ☒ No (Circle)
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Wetland 226

Dr - W068

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML, LB</u>	Date: <u>5/9/07</u> County: <u>Georgia</u> State: <u>GA</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PSS</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Cornus amomum</u>	<u>shrub</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Viburnum dentatum</u>	<u>shrub</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Rosa palustris</u>	<u>shrub</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Juncus effusus</u>	<u>Herb</u>	<u>FACW</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-. 100%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>5</u> (in.) Depth to Saturated Soil: <u>3</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ☒ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ☒ Water-Stained Leaves ___ Local Soil Survey Data ☒ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (Inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0	A	10YR 5/1	—	—	Silty loam
1-14	B	10YR 5/1	10YR 4/4	Common	Silty clay

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ___	Is the Sampling Point	
Wetland Hydrology Present?	Yes ☒ No ___	Within a Wetland?	Yes ☒ No ___
Hydric Soils Present?	Yes ☒ No ___		

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Upland site for
 Wetland 225d
 Wetland 226
 Pr-W062 UPL

Project/Site: <u>Middlefield</u> Applicant/Owner: <u>First Energy</u> Investigator: <u>M.L. L.B.</u>	Date: <u>5/9/07</u> County: <u>Sevier</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? Yes <u>NO</u> Is the site significantly disturbed (Atypical Situation)? Yes <u>NO</u> Is the area a potential Problem Area? Yes <u>NO</u> (If needed, explain on reverse.)	Community ID: <u>Upland Field</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Dactylis glomerata</u>	<u>Herb</u>	<u>UPL</u>	9. _____	_____	_____
2. <u>Unknown grass</u>	<u>Herb</u>	<u>-</u>	10. _____	_____	_____
3. <u>Solidago canadensis</u>	<u>Herb</u>	<u>FACU</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: _____

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12" ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
8	A	10YR 3/2	—	—	s. H loam
8-14	B	10YR 5/2	—	—	s. H loam

Hydric Soil Indicators:

☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☐ Gleyed or Low-Chroma Colors	☐ Concretions ☐ High Organic Content in Surface Layer Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other (Explain in Remarks)
---	---

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes ☒ No (Circle) Wetland Hydrology Present? Yes ☒ No (Circle) Hydric Soils Present? Yes ☒ No (Circle)	Is this Sampling Point Within a Wetland? Yes ☒ No (Circle)
Remarks: _____	

Pr-W063
Wetland-227

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First star</u> Investigator: <u>ML, LB</u>	Date: <u>5/9/07</u> County: <u>Greene</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PSS/PFO</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Viburnum dentatum</u>	<u>Shrub</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Myrica sylvatica</u>	<u>Tree</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Cornus amomum</u>	<u>Shrub</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>Tree</u>	<u>FAC</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-. 100%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>6</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ☒ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ☒ Water-Stained Leaves ___ Local Soil Survey Data ☒ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10YR 4/1	—	—	silt
6	B	10YR 5/1	10YR 5/6	few	clay

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point	
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland?	Yes ☒ No ☐
Hydric Soils Present?	Yes ☒ No ☐		

Remarks:

PR-W063 UPL
upland point for 227

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML, LB</u>	Date: <u>5/9/07</u> County: <u>Georgia</u> State: <u>GA</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>Young Forest</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Hemlock virginiana</u>		<u>FACU</u>	9. _____		
2. <u>Aster rubrum</u>		<u>FAC</u>	10. _____		
3. <u>Populus tremuloides</u>		<u>FACU</u>	11. _____		
4. <u>Erythronium americanum</u>		<u>OPL</u>	12. _____		
5. _____			13. _____		
6. _____			14. _____		
7. _____			15. _____		
8. _____			16. _____		

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 0%

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available Field Observations: Depth of Surface Water: <u>None</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ☐ Inundated ☐ Saturated in Upper 12" ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators: ☐ Oxidized Roots Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Remarks:	

SOILS

840,00 15ft 80-20 years old

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (Inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 4/2	—	—	silt loam
4-12	B	10YR 5/1	10YR 5/6	many	silty clay

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ___ No ☒	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No ☒	Within a Wetland?	Yes ___ No ___
Hydric Soils Present?	Yes ___ No ☒		

Remarks:

Pr-W0641
Wetland 228A

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML, LB</u>	Date: <u>5/9/07</u> County: <u>Grainger</u> State: <u>OK</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PEM/PS</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Impatiens capensis</u>	<u>Herb</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Viburnum dentatum</u>	<u>Shrub</u>	<u>IAC</u>	10. _____	_____	_____
3. <u>Carex sp</u>	<u>Herb</u>	<u>-</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 100%

Remarks:

HYDROLOGY

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

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-5	A	10YR 3/1	—	—	silt
	B				

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point	
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland?	Yes ___ No ___
Hydric Soils Present?	Yes ☒ No ☐		

Remarks:

upland for 228
Pr - W0664 UPL

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u>	Date: <u>5/9/07</u>
Applicant / Owner: <u>First Energy</u>	County: <u>Geauga</u>
Investigator: <u>ML, LB</u>	State: <u>OH</u>
Do normal circumstances exist on the site? Yes <u>X</u> No _____	Community ID: _____
Is the site significantly disturbed (Atypical situation)? Yes _____ No <u>X</u>	Transect ID: _____
Is the area a potential problem area? Yes _____ No <u>X</u> (explain on reverse if needed)	Plot ID: _____

VEGETATION

Young Asx Hardwood

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Mnanthemum canadense</u>	<u>Herb</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Rhamnus Frangula</u>	<u>Shrub</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Aster rubrum</u>	<u>Tier</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Erythronium americanum</u>	<u>Herb</u>	<u>UPL</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 50%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>None</u> (in.) Depth to Free Water in Pit: <u>None</u> (in.) Depth to Saturated Soil: <u>None</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ___ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2 in	O ₂	10YR 2/2	—	—	organic
2-7	A	10YR 3/2	—	—	silty loam
		rock			

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ___ No ☒	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No ☒	Within a Wetland?	Yes ___ No ___
Hydric Soils Present?	Yes ___ No ☒		

Remarks:

Project e. Middle Island

Applicant/Owner: EC

Investigator(s) Robert J. Thayer

Date 7-17-07 Community ID PSS/5m

County Mass Transect ID

State MA Plot ID RTW502

Do Normal Circumstances exist on the site?

☒ YES ☐ NO

Is the site significantly & recently disturbed? (Atypical Situation)

☐ YES ☒ NO

Is the area a potential Problem Area? (Explain in final remarks)

☐ YES ☒ NO

VEGETATION

Dominant Plant Species	Stratum	Indicator
1 <u>Glyceria striata</u>	<u>H</u>	<u>ORC</u>
2 <u>Carex lupulina</u>	<u>H</u>	<u>ORC</u>
3 <u>Oenoclea sensibilis</u>	<u>H</u>	<u>ORC</u>
4 <u>Leersia oryzoides</u>	<u>H</u>	<u>ORC</u>
5 <u>Phragmites australis</u>	<u>S</u>	<u>FOR</u>
6 <u>Phragmites australis</u>	<u>S</u>	<u>FOR</u>
7 <u>Impatiens capensis</u>	<u>H</u>	<u>FOR</u>
8 <u></u>	<u></u>	<u></u>
9 <u></u>	<u></u>	<u></u>
10 <u></u>	<u></u>	<u></u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-1) 100 %

Hydrophytic Vegetation Present? ☒ YES ☐ NO

REMARKS

Resubbed to old highway on old Reservation
U Pond Forest

RECORDED DATA (Describe in Remarks)

☒ Stream, Lake or Tide Gauge

☒ Aerial Photographs

☐ Other

☐ None Available

FIELD OBSERVATIONS

Depth of Surface Water 0 (in)

Depth to Free Water in Pit 0 (in)

Depth to Saturated Soil 0 (in)

Wetland Hydrology Present?

☒ YES ☐ NO

REMARKS

PRIMARY Indicators:

☐ Undrained

☐ Saturated in Upper 12"

☒ Water Marks

☒ Drift Lines

☒ Sediment Deposits

☒ Drainage Patterns in Wetlands

SECONDARY Indicators

☒ Oxidized Root Channels in UPPER 12"

☒ Swale Stained Leaves

☐ Local Soil Survey Data

☐ FAC-Neutral Test

☐ Other (Explain in Remarks)

SOILS

Map Unit Name 1P2 Drainage Class

(Series and Phase)

Field Observations Confirm Mapped Type Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Moisture Content (moisture)	Moisture (moisture)	Abundance/Conc.	Texture
<u>0-10</u>	<u>10YR 5/6</u>	<u>10YR 5/6</u>	<u>10YR 5/6</u>	<u>Low</u>	<u>clay</u>
<u>10-20</u>	<u>10YR 5/6</u>	<u>10YR 5/6</u>	<u>10YR 5/6</u>	<u>Low</u>	<u>clay</u>

HYDROIC SOIL INDICATORS

- ☐ Histosol
- ☐ Organic Content
- ☐ Single Exposure
- ☒ Gleyed or Low Chroma Colors
- ☐ Sulfide Sph.
- ☐ Organic
- ☐ Aquic Moisture Regime
- ☐ High Organic Content
- ☐ Listed on Local Hydroic Soils List
- ☐ Listed on National Hydroic Soils List

Hydroic Soil Present? ☒ YES ☐ NO

REMARKS

WETLAND DETERMINATION

Hydrophytic Vegetation Present?

☒ YES ☐ NO

Wetland Hydrology Present?

☒ YES ☐ NO

Hydroic Soils Present?

☒ YES ☐ NO

Is this sampling point a Wetland?

☒ YES ☐ NO

REMARKS

9903-10

ROUTINE WETLAND DETERMINATION-DATA FORM 1987 MANUAL

NATURALIST

RECORDED DATA (Describe in Remarks)

☒ Stream, Lake or Tide Gauge

☒ Aerial Photographs

☐ Other

☐ None Available

PRIMARY Indicators

☐ Inundated

☐ Saturated in Upper 12"

☐ Water Marks

☐ Drift Lines

☐ Sediment Deposits

☐ Drainage Patterns in Wetlands

SECONDARY Indicators

☐ Oxidized Root Channels in UPPER 12"

☐ Water Stained leaves

☐ Local Soil Survey Data

☐ FAC-Neutral Test

☐ Other (Explain in Remarks)

Project e. Middleford

Applicant/Owner EC

Investigator(s) Robert Thayer

Date 2-17-02 Community ID UFO

County Windsor Transact ID

State OH Plot ID 50208

Do Normal Circumstances exist on the site? ☒ YES ☐ NO

Is the site significantly & recently disturbed? (Atypical Situation) ☐ YES ☒ NO

Is the area a potential Problem Area? (Explain in final remarks) ☐ YES ☒ NO

VEGETATION

Dominant Plant Species	Stratum	Indicator
1 <u>Large cord. forsteri</u>	<u>T</u>	<u>FACU</u>
2 <u>Large cord. forsteri</u>	<u>T</u>	<u>FACU</u>
3 <u>Large cord. forsteri</u>	<u>T/H</u>	<u>FACU</u>
4 <u>Large cord. forsteri</u>	<u>T</u>	<u>FACU</u>
5 <u>Large cord. forsteri</u>	<u>S</u>	<u>FACU</u>
6 <u>Large cord. forsteri</u>	<u>T</u>	<u>FACU</u>
7 <u>Large cord. forsteri</u>	<u>W/V</u>	<u>FACU</u>
8 <u>Large cord. forsteri</u>	<u>W/V</u>	<u>FACU</u>
9 <u>Large cord. forsteri</u>	<u>W/V</u>	<u>FACU</u>
10 <u>Large cord. forsteri</u>	<u>W/V</u>	<u>FACU</u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-1) 25 %

Hydrophytic Vegetation Present? ☒ YES ☐ NO

REMARKS

REMARKS

SOILS

Map Unit Name H2 Drainage Class

(Series and Phase)

Taxonomy (Subgroup)

Field Observations Confirm Mapped Type Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Matrix Color	Matrix Moisture	Matrix	Matrix	Texture
0-3	A	10YR 7/1				8/1 fine
3-2	B	2.5/1.5/1.5				2.1/1.5/1.5

HYDRO SOIL INDICATORS

☐ Histosol	☐ Burrowing Conditions	☐ Organic Streaking in Surface Soil
☐ Molar Enrichment	☐ Greying in Low Chroma Colors	☐ Listed on Local Hydric Soils List
☐ Surface Cracks	☐ Cracks in Surface	☐ Listed on National Hydric Soils List
☐ Aqueous Deposition	☐ High Organic Content in Surface Soil	

Hydric Soil Presence ☒ YES ☐ NO

REMARKS

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ YES ☐ NO

Is this sampling point a Wetland? ☒ YES ☐ NO

Wetland Hydrology Present? ☒ YES ☐ NO

Hydric Soils Present? ☒ YES ☐ NO

REMARKS

Pr-2060 UPC

Project: Madilla Seld

Applicant/Owner: _____

Investigator(s): RD Parley, ThonagaleDate: 7-17-07 Community ID: 133/6pm

County: _____ Transect ID: _____

State: _____ Plot ID: RTW001Do Normal Circumstances exist on the site? ☒ YES ☐ NOIs the site significantly & recently disturbed? (Atypical Situation) ☐ YES ☒ NOIs the area a potential Problem Area? (Explain in final remarks) ☐ YES ☒ NO

VEGETATION

Dominant Plant Species	Stratum	Indicator
1 <u>Populus deltoides</u>	<u>S</u>	<u>FAC</u>
2 <u>Salix nigra</u>	<u>T/S</u>	<u>FACU</u>
3 <u>Carex lasiocarpa</u>	<u>S</u>	<u>FACU</u>
4 <u>Ternstroemia liliifolia</u>	<u>H</u>	<u>FACU</u>
5 <u>Rosa palustris</u>	<u>S</u>	<u>DBL</u>
6 <u>Ternstroemia liliifolia</u>	<u>H</u>	<u>FAC</u>
7 <u>Viburnum acerifolium</u>	<u>S</u>	<u>FACU</u>
8 <u>Spiraea tomentosa</u>	<u>S</u>	<u>FACU</u>
9 <u>Carex lasiocarpa</u>	<u>T</u>	<u>FACU</u>
10 <u>Laetia orizabensis</u>	<u>H</u>	<u>OBL</u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-1) 100 %Hydrophytic Vegetation Present? ☒ YES ☐ NO

REMARKS

RECORDED DATA (Describe in Remarks)

☒ Stream, Lake or Tide Gauge☒ Aerial Photographs☒ Other☐ None Available

FIELD OBSERVATIONS

Depth of Surface Water: 1/2 (in)Depth to Free Water in Pit: 2 1/2 (in)Depth to Saturated Soil: 3 1/2 (in)Wetland Hydrology Present? ☐ YES ☒ NO

REMARKS

PRIMARY Indicators

☐ Inundated☐ Saturated in Upper 12"☐ Water Marks☐ Drift Lines☐ Sediment Deposits☒ Orange Patterns in Wetlands

SECONDARY Indicators

☒ Oxidized Root Channels in UPPER 12"☐ Water Stained leaves☐ Local Soil Survey Data☐ FAC Neutral Test☐ Other (Explain in Remarks)

SOILS

Map Unit Name: 110 Drainage Class: _____

Taxonomy (Subgroup): _____

Field Observations Confirm Mapped Type: ☐ YES ☒ NO

PROFILE DESCRIPTION

Depth (inches)	Horizon	Moisture Content	Moisture	Moisture	Abundance/Contrast	Texture
<u>0-8</u>	<u>A</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>Fine</u>	<u>Silt</u>

HYDRIC SOIL INDICATORS

- ☐ Histosol ☐ No Mottling Contrasts
- ☐ Mottled Epipedon ☒ Mottled in Lower 12" of Profile
- ☐ Salinity Order ☐ Salinity in Lower 12" of Profile
- ☐ Aquic Moisture Regime ☐ High Organic Content in Lower 12" of Profile

Hydric Soil Present? ☐ YES ☒ NO

REMARKS

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ YES ☐ NOWetland Hydrology Present? ☒ YES ☐ NOHydric Soils Present? ☒ YES ☐ NO

REMARKS

Is this sampling point a Wetland? ☒ YES ☐ NO

ROUTINE WETLAND DETERMINATION-DATA FORM 1987 MANUAL

7/25/87 3063

Project/Site: Walden Field
 Applicant/Owner: ES
 Investigator(s): Epstein, Thorne
 Date: 7-17-87 Community ID: DF
 County: Geary Transect ID: SW 14 - Leggs # 104
 State: CA Plot ID: CD 1 UP

Do Normal Circumstances exist on the site? ☒ YES ☐ NO
 Is the site significantly & recently disturbed? (Atypical Situation) ☐ YES ☒ NO
 Is the area a potential Problem Area? (Explain in final remarks) ☐ YES ☒ NO

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. <u>Solidago canadensis</u>	<u>1</u>	<u>FACU</u>
2. <u>Rumex crispus</u>	<u>4</u>	<u>FACU</u>
3. <u>Rubus alleghaniensis</u>	<u>5</u>	<u>FACU</u>
4. <u>Schrodobromus phalaris</u>	<u>4</u>	<u>FACU</u>
5. <u>Poa pratensis</u>	<u>4</u>	<u>FACU</u>
6. <u>Anthoxanthum odoratum</u>	<u>4</u>	<u>FACU</u>
7. <u>Carex lupinosa</u>	<u>4</u>	<u>FACU</u>
8. <u>Juncus effusus</u>	<u>4</u>	<u>FACU</u>
9. _____	_____	_____
10. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 25 %

Hydrophytic Vegetation Present? ☐ YES ☒ NO

REMARKS: Mowed field - Res. adjacent

Sparg Black willow

HYDROLOGY

RECORDED DATA (Describe in Remarks):
☒ Stream, Lake or Tide Gauge
☒ Aerial Photographs
☒ Other
☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: NA (in.)
 Depth to Free Water in Pit: 2 1/2 (in.)
 Depth to Saturated Soil: 2 1/2 (in.)

Wetland Hydrology Present? ☐ YES ☒ NO

REMARKS:

PRIMARY Indicators:

☐ Undrained
☐ Saturated in Upper 12"
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

SECONDARY Indicators

☐ Oxidized Root Channels in UPPER 12"
☐ Water Stained leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOILS

Map Unit Name: H0 Drainage Class: _____
 (Series and Phase)

Taxonomy (Subgroup): _____ Field Observations Confirm Mapped Type: ☐ YES ☒ NO

PROFILE DESCRIPTION

Depth (inches)	Horizon	Munsell Color (Munsell Moist)	Mottle	Abundance/Contrast	Texture, Cancellations, Structure, etc.
<u>0-2</u>	<u>10YR 3/4</u>	<u>10YR 2/4</u>	<u>Faint</u>	<u>1st</u>	<u>sl. brown</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

HYDRIC SOIL INDICATORS

☐ Histosol ☐ Reducing Conditions ☐ Organic Streaking in Sandy Soil
☐ Mistic Expander ☒ Gleyed or Low-Chroma Colors ☐ Listed on Local Hydric Soils List
☐ Sulfidic Odor ☐ Concrete ☐ Listed on National Hydric Soils List
☐ Aquic Moisture Regime ☐ High Organic Saturated - Saturated Layer or Sandy Soil
 Hydric Soil Present? ☒ YES ☐ NO

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐ YES ☒ NO
 Wetland Hydrology Present? ☐ YES ☒ NO
 Hydric Soils Present? ☐ YES ☒ NO
 Is this sampling point a Wetland? ☐ YES ☒ NO

REMARKS:

ROUTINE WETLAND DETERMINATION-DATA FORM

1987 MANUAL

HYDROLOGY

RECORDED DATA (Describe in Remarks):

- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☐ None Available

PRIMARY Indicators:

- ☒ Inundated
- ☒ Saturated in Upper 12"
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 14 (in.)
 Depth to Free Water in Pit: 12 (in.)
 Depth to Saturated Soil: 20 (in.)

Wetland Hydrology Present?

(Yes) No

SECONDARY Indicators

- ☒ Oxidized Root Channels in UPPER 12"
- ☐ Water Stained leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

REMARKS:

VEGETATION

Dominant Plant Species

Stratum

Indicator

1. <u>Corchorus amurensis</u>	<u>S</u>	<u>FAC wet</u>
2. <u>Phragmites australis</u>	<u>S</u>	<u>FAC</u>
3. <u>Phragmites australis</u>	<u>S</u>	<u>FAC wet</u>
4. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC wet</u>
5. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC</u>
6. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC</u>
7. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC</u>
8. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC</u>
9. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC</u>
10. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC</u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)

100 %

Hydrophytic Vegetation Present? Yes No

REMARKS:

SOILS

Map Unit Name H2O
 (Series and Phase)

Drainage Class:

Taxonomy (Subgroup):

Field Observations Confirm Mapped Type: Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Main Color (Munsell Moist)	Mottle (Munsell Moist)	Abundance/Contrast	Texture, Cancellations, Structure, etc.
0-14	A	10YR 8/1	10YR 8/1	10YR 8/1	10YR 8/1

HYDRIC SOIL INDICATORS

- ☐ Histosol
- ☐ Reducing Conditions
- ☐ Rustic Epipedon
- ☒ Displayed as Low Chroma Colors
- ☐ Sulfidic Odor
- ☐ Concretions
- ☐ Aquic Moisture Regime
- ☐ High Organic Substances in Surface or Sandy Soils

Hydric Soil Present? Yes No

REMARKS:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No
 Wetland Hydrology Present? Yes No
 Hydric Soils Present? Yes No
 Is this sampling point a Wetland? Yes No

REMARKS:

1987-11-11

Pr-W067 UPL

ROUTINE WETLAND DETERMINATION-DATA FORM

1987 MANUAL

HYDROLOGY

Project/Site:

Middle Field

Applicant/Owner:

FE

Investigator(s):

Robert Thorne

Date: 7-17-07

Community ID: UFO

County:

Geary Co

Transect ID:

State:

OH

Plot ID: 503-UP1

Do Normal Circumstances exist on the site?

YES

Is the site significantly & recently disturbed? (Atypical Situation)

NO

Is the area a potential Problem Area? (Explain in final remarks)

NO

VEGETATION

Dominant Plant Species

Stratum

Indicator

1. *Alnus incana*

Tree

FAC

2. *Prunus serotina*

Tree

FAC

3. *Acer saccharum*

Tree

FAC

4. *Fraxinus nigra*

Tree

FAC

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)

50

%

Hydrophytic Vegetation Present?

Yes

No

REMARKS:

RECORDED DATA (Describe in Remarks):

☐ Stream, Lake or Tide Gauge

☐ Aerial Photographs

☐ Other

☐ None Available

PRIMARY Indicators:

☐ Inundated

☐ Saturated in Upper 12"

☐ Water Marks

☐ Drift Lines

☐ Sediment Deposits

☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 14 (in.)

Depth to Free Water in Pit: 218 (in.)

Depth to Saturated Soil: 218 (in.)

Wetland Hydrology Present?

Yes

No

SECONDARY Indicators:

☐ Oxidized Root Channels in UPPER 12"

☐ Water Stained leaves

☐ Local Soil Survey Data

☐ FAC-Neutral Test

☐ Other (Explain in Remarks)

SOILS

Map Unit Name

4A

Drainage Class:

(Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION

Depth (inches)	Horizon	Munsell Color (Moist)	Munsell Color (Dry)	Texture	Abundance/Contrast	Concretions/Structure, etc.
0-4	A	10YR 2/3	-	-	-	silty loam
4-10	B	2.5Y 5/6	-	-	-	-

HYDRIC SOIL INDICATORS

☐ Histosol ☐ Reducing Conditions ☐ Organic Streaking in Sandy Soil

☐ Histic Epipedon ☐ Gleyed or Low Chroma Colors ☐ Listed on Local Hydric Soils List

☐ Sulfidic Odor ☐ Concretions ☐ 1 step on National Hydric Soils List

☐ Aquic Moisture Regime ☐ High Organic Substrate in A, B, or C horizon or Sandy Soils

Hydric Soil Present? Yes No

REMARKS

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No Is this sampling point a Wetland?

Wetland Hydrology Present? Yes No Yes No

Hydric Soils Present? Yes No

REMARKS

HYDROLOGY

RECORDED DATA (Describe in Remarks).

PRIMARY Indicator

Project/Site: _____
 Applicant/Owner: _____
 Investigator(s): _____
 Date: _____ Community ID: _____

County: _____ State: _____ Plot ID: _____

Do Normal Circumstances exist on the site? ☐ YES ☐ NO
 Is the site significantly & recently disturbed? ☐ YES ☐ NO

Is the area a potential Problem Area? (Explain in final remarks)

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. <u>Scirpus americanus</u>	<u>1</u>	<u>1</u>
2. <u>Spartina patens</u>	<u>2</u>	<u>2</u>
3. <u>Phragmites australis</u>	<u>3</u>	<u>3</u>
4. <u>Distichlis spicata</u>	<u>4</u>	<u>4</u>
5. <u>Sagittaria arifolia</u>	<u>5</u>	<u>5</u>
6. <u>Eleocharis acicularis</u>	<u>6</u>	<u>6</u>
7. <u>Eleocharis obtusa</u>	<u>7</u>	<u>7</u>
8. <u>Eleocharis acicularis</u>	<u>8</u>	<u>8</u>
9. <u>Eleocharis acicularis</u>	<u>9</u>	<u>9</u>
10. <u>Eleocharis acicularis</u>	<u>10</u>	<u>10</u>

Percent of Dominant Species that are

OBL, FACW or FAC (excluding FAC-1)

Hydrophytic Vegetation Present? ☐ YES ☐ NO

REMARKS

☐ Stream, Lake or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: _____ (in)
 Depth to Free Water in Pit: _____ (in)
 Depth to Saturated Soil: _____ (in)

Wetland Hydrology Present? ☐ YES ☐ NO
 (CVA Subproject) CVA of 545-44941 Test

REMARKS

(CVA Subproject) CVA of 545-44941 Test

☐ Inundated
☐ Saturated in Upper 12"
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

SECONDARY Indicators

☐ Oxidized Root Channels in UPPER 12"
☐ Water Stained leaves
☐ Local Soil Survey Data

SOILS

Map Unit Name: _____ Drainage Class: _____
 (Series and Phase)

Taxonomy (Subgroup): _____

PROFILE DESCRIPTION

Depth: _____ Munsell Color: _____ Moisture: _____
 (inches) Horizon (Munsell Moist) (Munsell Moist) Abundance/Concentration
 Munsell Color: _____ Munsell Color: _____

HYDROLOGIC SOIL INDICATOR

☐ Histosol ☐ Reducing Conditions ☐ Organic Streaking in Sandy Soil
☐ Histic Epipedon ☐ Gleyed or Low Chroma Color ☐ Listed on Local Hydric Soils List
☐ Aquic Moisture Regime ☐ High Organic Substrate ☐ Listed on National Hydric Soils List

HYDRIC SOIL INDICATOR

☐ Aquic Moisture Regime ☐ High Organic Substrate ☐ Listed on National Hydric Soils List

HYDRIC SOIL INDICATOR

☐ Aquic Moisture Regime ☐ High Organic Substrate ☐ Listed on National Hydric Soils List

HYDRIC SOIL INDICATOR

☐ Aquic Moisture Regime ☐ High Organic Substrate ☐ Listed on National Hydric Soils List

1987 MAY

WETLAND DETERMINATION DATA FORM

1987 MAY

ROUTINE WETLAND DETERMINATION-DATA FORM

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HYDROLOGY

Project #

Middle Creek

Applicant/Owner

FC

Investigator(s)

Equibys, Thomsen

Date

7-17

Community ID UFCO

County

Colo

Transect ID

50409

State

CO

Plot ID

50409

Do Normal Circumstances exist on the site?

☒ YES

☐ NO

Is the site significantly & recently disturbed? (Atypical Situation)

☒ YES

☐ NO

Is the area a potential Problem Area? (Explain in final remarks)

☒ YES

☐ NO

VEGETATION

Dominant Plant Species

Stratum

Indicator

1

Agave Schottii

T3

FCO

2

Maianthemum canadensis

V

FCO

3

Smilax latifolia

V

FCO

4

5

6

7

8

9

10

Percent of Dominant Species that are OBI, FACW or FAC (excluding FACO) 33 %

Hydrophytic Vegetation Present? ☒ YES

☐ NO

REMARKS

RECORDED DATA (Describe in Remarks)

☐ Stream, Lake or Tide Gauge

☐ Aerial Photographs

☐ Other

☐ None Available

FIELD OBSERVATIONS

Depth of Surface Water NA (in)

Depth to Free Water in Plot 2.65 (in)

Depth to Saturated Soil 7.18 (in)

Wetland Hydrology Present?

☒ YES

☐ NO

REMARKS

PRIMARY Indicators

☐ Inundated

☐ Saturated in Upper 12"

☐ Water Marks

☐ Drift Lines

☐ Sediment Deposits

☐ Drainage Patterns in Wetlands

SECONDARY Indicators

☐ Oxidized Root Channels in UPPER 12"

☐ Water Stained leaves

☐ Local Soil Survey Data

☐ FAC-Neutral Test

☐ Other (Explain in Remarks)

SOILS

Map Unit Name HS4

(Series and Phase)

Taxonomy (Subgroup)

Field Observations Confirm Mapped Type Yes No

PROFILE DESCRIPTION

Depth (inches)

2-10

4

10-15

HYDRIC SOIL INDICATORS

☐ Histosol

☐ Muck

☐ Sapropel

☐ Organic

☐ Other

☐ None

☐ Other

☐ None

☐ Other

☐ None

☐ Other

☐ None

☐ Other

☐ None

WETLAND DETERMINATION

Hydrophytic Vegetation Present?

Wetland Hydrology Present?

Hydric Soils Present?

☒ YES

☒ YES

☒ YES

Is this sampling from a Wetland?

☒ YES

☐ NO

REMARKS

WETLAND DETERMINATION DATA FORM

1987 MAY

HYDROLOGY

Project Site: _____

Applicant/Owner: _____

Investigator(s): _____

Date: _____ Community ID: _____

County: _____ Transect ID: _____

State: _____ Plot ID: _____

Do Normal Circumstances exist on the site? ☒ YES ☐ NO

Is the site significantly & recently disturbed? ☒ YES ☐ NO

Is the area a potential Problem Area? (Explain in final remarks) ☐ YES ☒ NO

VEGETATION

Dominant Plant Species: _____ Stratum: _____

Indicator: _____

Soils: _____

Map Unit Name: _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations Confirm Mapped Type: Yes No

Profile Description: _____

Depth: _____ Matrix Color: _____ Moisture: _____

Horizon (Munsell Moist): _____ Abundance/Contrast: _____

untraits: _____ Species: _____

Vegetation: _____

Percent of Dominant Species that are: _____

OBLIGATE FACW or FAC (excluding FAC): _____

Hydrophytic Vegetation Present? Yes No

REMARKS: _____

Hydric Soil Present? Yes No

REMARKS: _____

WETLAND DETERMINATION DATA FORM

RECORDED DATA (Describe in Remarks):

☐ Stream, Lake or Tide Gauge

☐ Aerial Photographs

☐ Other

☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: _____ (in.)

Depth to Free Water in Pit: _____ (in.)

Depth to Saturated Soil: _____ (in.)

Wetland Hydrology Present? ☒ YES ☐ NO

REMARKS: _____

Soils: _____

Map Unit Name: _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Field Observations Confirm Mapped Type: Yes No

Profile Description: _____

Depth: _____ Matrix Color: _____ Moisture: _____

Horizon (Munsell Moist): _____ Abundance/Contrast: _____

untraits: _____ Species: _____

Vegetation: _____

Percent of Dominant Species that are: _____

OBLIGATE FACW or FAC (excluding FAC): _____

Hydrophytic Vegetation Present? Yes No

REMARKS: _____

Hydric Soil Present? Yes No

REMARKS: _____

WETLAND DETERMINATION DATA FORM

PRIMARY Indicator

☐ Inundated

☐ Saturated in Upper 12"

☐ Water Marks

☐ Drift Lines

☐ Sediment Deposits

☐ Drainage Patterns in Wetlands

SECONDARY Indicators

☐ Oxidized Root Channels in UPPER 12"

☐ Water Stained Leaves

☐ Local Soil Survey Data

☐ FAC-Agriural Test

☐ Other (Explain in Remarks)

Is this sampling point a Wetland? Yes No

REMARKS: _____

WETLAND DETERMINATION DATA FORM

ROUTINE WETLAND DETERMINATION-DATA FORM

1987 MANUAL

HYDROLOGY

RECORDED DATA (Describe in Remarks)

- ☐ Stream, Lake or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY Indicators

- ☐ Inundated
☐ Saturated in Upper 12"
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 44 (in.)
Depth to Free Water in Pit: 218 (in.)
Depth to Saturated Soil: 211 (in.)

SECONDARY Indicators

- ☐ Oxidized Root Channels in UPPER 12"
☐ Water Stained leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present?

Yes ☐ No ☒

REMARKS:

Project/Site: Middlefield

Applicant/Owner: F-4

Investigator(s): Robert Thompson

Date: 3-12-03 Community ID: Old Field

County: Santa Clara Tract ID:

State: CA Plot ID: 504 UP - 2 F

Do Normal Circumstances exist on the site?

Yes ☒ No ☐

Is the site significantly & recently disturbed? (Atypical Situation)

Yes ☐ No ☒

Is the area a potential Problem Area? (Explain in final remarks)

Yes ☐ No ☒

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. <u>Ses. ch. o. canchens.</u>	<u>4</u>	<u>FACU</u>
2. <u>Polyp. sp. melo. o. o.</u>	<u>T/S</u>	<u>FACU</u>
3. <u>Polyp. sp. melo. o. o.</u>	<u>4</u>	<u>FACU</u>
4. <u>Polyp. sp. melo. o. o.</u>	<u>4</u>	<u>FACU</u>
5. <u>Polyp. sp. melo. o. o.</u>	<u>4</u>	<u>FACU</u>
6. <u></u>	<u></u>	<u></u>
7. <u></u>	<u></u>	<u></u>
8. <u></u>	<u></u>	<u></u>
9. <u></u>	<u></u>	<u></u>
10. <u></u>	<u></u>	<u></u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 200 %

Hydrophytic Vegetation Present? Yes ☐ No ☒

REMARKS:

SOILS

Map Unit Name: 45 A Drainage Class:

(Series and Phase)

Taxonomy (Subgroup):

Field Observations Confirm Mapped Type: Yes ☐ No ☐

PROFILE DESCRIPTION

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle	Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-5</u>	<u>2</u>	<u>10YR 5/8</u>	<u></u>	<u></u>	<u>cl. H. for</u>

HYDRIC SOIL INDICATORS

- ☐ Histosol
☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Organic Streaking in Sandy Soil
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List

Hydric Soil Present: Yes ☐ No ☒

REMARKS:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes ☐ No ☒
Wetland Hydrology Present? Yes ☐ No ☒
Hydric Soils Present? Yes ☐ No ☒
Is this sampling point a Wetland? Yes ☐ No ☒

REMARKS:

ROUTINE WETLAND DETERMINATION DATA FORM

1987 MANUAL

Pr-W069 upl

HYDROLOGY

Project/Site: M. Adelle Field

Applicant/Owner: EEC

Investigator(s): Boaskey, J. Hanger

Date: 7-17-07 Community ID: UFO

County: Conner Transect ID: 1

State: OR Plot ID: 505 upl

Do Normal Circumstances exist on the site?

☒ YES ☐ NO

Is the site significantly & recently disturbed? (Atypical Situation)

☐ YES ☒ NO

Is the area a potential Problem Area? (Explain in final remarks)

☐ YES ☒ NO

VEGETATION

Dominant Plant Species

Stratum

Indicator

1.	<u>Carex lasiocarpa</u>	<u>I/S</u>	<u>GRV</u>
2.	<u>Agave schottlandii</u>	<u>I/S</u>	<u>GRV</u>
3.	<u>Muhlenbergia acuminata</u>	<u>I/S</u>	<u>GRV</u>
4.	<u>Muhlenbergia canadensis</u>	<u>I/S</u>	<u>GRV</u>
5.			
6.			
7.			
8.			
9.			
10.			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)

0 %

Hydrophytic Vegetation Present? Yes ☐ No ☒

REMARKS:

HYDROLOGY

RECORDED DATA (Describe in Remarks)

- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: NA (in.)
Depth to Free Water in Pit: 24 (in.)
Depth to Saturated Soil: 24 (in.)

Wetland Hydrology Present?

☐ YES ☒ NO

REMARKS:

PRIMARY Indicators:

- ☐ Inundated
- ☐ Saturated in Upper 12"
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

SECONDARY Indicators

- ☐ Oxidized Root Channels in UPPER 12"
- ☐ Water Stained leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

SOILS

Map Unit Name: H54 Drainage Class: —

(Series and Phase)

Field Observations Confirm

Mapped Type: Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Matrix Color	Mottle	Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>08</u>	<u>A</u>	<u>10YR 4/3</u>	<u>—</u>	<u>—</u>	<u>5/14/08</u>

HYDRIC SOIL INDICATORS

- ☐ Histosol
- ☐ Reducing Conditions
- ☐ Histic Epipedon
- ☐ Histic or Low Chroma Colors
- ☐ Sulfidic Odor
- ☐ Concretions
- ☐ Aquic Moisture Regime
- ☐ High Organic Storage in 3' Water Layer or Sandy Soils

Hydric Soil Present? Yes ☐ No ☒

REMARKS:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?

Yes

Wetland Hydrology Present?

Yes

Hydric Soils Present?

Yes

Is this sampling point a Wetland?

Yes No

REMARKS:

ROUTINE WETLAND DETERMINATION DATA FORM

1987 MANUAL

HYDROLOGY

RECORDED DATA (Describe in Remarks)

- ☒ Stream, Lake or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY Indicators:

- ☐ Inundated
☒ Saturated in Upper 12"
☒ Water Marks
☐ Drift Lines
☒ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 0 (in)
 Depth to Free Water in Pit: 4 (in)
 Depth to Saturated Soil: 0 (in)

Wetland Hydrology Present?

☒ Yes ☐ No

REMARKS

SECONDARY Indicators

- ☐ Oxidized Root Channels in UPPER 12"
☐ Water Stained leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

ROUTINE WETLAND DETERMINATION DATA FORM

1987 MANUAL

HYDROLOGY

RECORDED DATA (Describe in Remarks)

- ☒ Stream, Lake or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY Indicators:

- ☐ Inundated
☒ Saturated in Upper 12"
☒ Water Marks
☐ Drift Lines
☒ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 0 (in)
 Depth to Free Water in Pit: 4 (in)
 Depth to Saturated Soil: 0 (in)

Wetland Hydrology Present?

☒ Yes ☐ No

REMARKS

SECONDARY Indicators

- ☐ Oxidized Root Channels in UPPER 12"
☐ Water Stained leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Do Normal Circumstances exist on the site? YES NO
 Is the site significantly & recently disturbed? (Atypical Situation) YES NO
 Is the area a potential Problem Area? (Explain in final remarks) YES NO

VEGETATION

Dominant Plant Species

Dominant Plant Species	Stratum	Indicator
1 <u>Carex lasiocarpa</u>	H	OBL
2 <u>Buhtomy</u>	S	PBL
3 <u>Cornus Amom</u>	S	PBL
4 <u>Vine Cissampelos</u>	H	OBL
5 <u>Vine Cissampelos</u>	S	PBL
6 <u>Alcea Rubra</u>	T/S	PBL
7 <u>For. addendrum</u>	H/S	PBL
8 <u>Parthenocissus</u>	S	PBL
9		
10		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-1) 100 %

Hydrophytic Vegetation Present? ☒ Yes ☐ No

REMARKS

SOILS

Map Unit Name HsH Drainage Class:

(Series and Phase)

Taxonomy (Subgroup):

Field Observations Confirm Mapped Type: Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Mottex Color (Munsell Moist)	Mottex (Munsell Moist)	Mottex Abundance/Contrast	Texture, Cancellations, Structure, etc.
0-12		<u>10YR 3/4</u>			

HYDRIC SOIL INDICATORS

- ☐ Histosol ☐ Reducing Conditions ☐ Organic Streaking in Sandy Soil
☐ Fistic Epipedon ☒ Gleyed or Low Chroma Colors ☐ Listed on Local Hydric Soils List
☐ Sulfidic Odor ☐ Concretions ☐ Listed on National Hydric Soils List
☐ Aquic Moisture Regime ☐ High Organic Streaking in Surface 12" over Sandy Soils

Hydric Soil Present? ☒ Yes ☐ No

REMARKS

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No
 Wetland Hydrology Present? ☒ Yes ☐ No
 Hydric Soils Present? ☒ Yes ☐ No
 Is this sampling point a Wetland? ☒ Yes ☐ No

REMARKS

ROUTINE WETLAND DETERMINATION-DATA FORM

1987 MANUAL

F- c/Site: Madella Field

Applicant/Owner: FE

Investigator(s): Reynolds - Thayer

Date: 7-18-87 Community ID: PS

County: Colusa Transect ID: 1

State: CA Plot ID: RTW 507

Do Normal Circumstances exist on the site?

YES NO

Is the site significantly & recently disturbed? (Atypical Situation)

YES NO

Is the area a potential Problem Area? (Explain in final remarks)

YES NO

VEGETATION

Dominant Plant Species

Stratum

Indicator

1	<u>Pennisetum setaceum</u>	<u>T/S</u>	<u>FAU</u>
2	<u>Phragmites australis</u>	<u>S/S</u>	<u>FAU</u>
3	<u>Rhynchospora alba</u>	<u>S</u>	<u>FAU</u>
4	<u>Phragmites australis</u>	<u>T/S</u>	<u>FAU</u>
5	<u>Phragmites australis</u>	<u>H</u>	<u>FAU</u>
6	<u>Phragmites australis</u>	<u>H</u>	<u>FAU</u>
7			
8			
9			
10			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-)

%

Hydrophytic Vegetation Present? Yes No

REMARKS

HYDROLOGY

RECORDED DATA (Describe in Remarks)

- ☐ Stream, Lake or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: 1/2 (in.)
Depth to Free Water in Pit: 1/2 (in.)
Depth to Saturated Soil: 1/2 (in.)

Wetland Hydrology Present?

Yes No

REMARKS

PRIMARY Indicators

- ☐ Inundated
☐ Saturated in Upper 12"
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

SECONDARY Indicators

- ☒ Oxidized Root Channels in UPPER 12"
☐ Water Stained leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

SOILS

Map Unit Name HS4

Drainage Class:

Taxonomy (Subgroup):

Field Observations Confirm Mapped Type: Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Mottled Color (Munsell Moist)	Mottled Color (Munsell Moist)	Mottled Color (Munsell Moist)	Texture
<u>0-2</u>	<u>A</u>	<u>10YR 4/4</u>	<u>10YR 4/4</u>	<u>M/D</u>	<u>silt loam</u>
<u>4-12</u>	<u>B</u>	<u>5Y 6/1</u>	<u>10YR 4/4</u>		

HYDRIC SOIL INDICATORS

- ☐ Histosol
☐ Histosol
☐ Histic Epipedon
☐ Sulfide Odor
☐ Aquic Moisture Regime
☐ Organic Streaking in Sandy Soil
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List

Hydric Soil Present? Yes (in.)

REMARKS

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No
Is this sampling point a Wetland? Yes No

REMARKS

Dr-W071 GPC

ROUTINE WETLAND DETERMINATION-DATA FORM 1987 MANUAL

Project/Site: Middle Creek

Applicant/Owner: FE

Investigator(s): Leahy - Thomsen

Date: 7-18-92 Community ID: NFC013

County: Georgia Transect ID:

State: GA Plot ID: 507 20

Do Normal Circumstances exist on the site? YES NO

Is the site significantly & recently disturbed? (Atypical Situation) YES NO

Is the area a potential Problem Area? (Explain in final remarks) YES NO

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. <u>Diplopia laevis</u>	<u>T/S</u>	<u>FAC</u>
2. <u>Aster puber</u>	<u>T/S</u>	<u>FAC</u>
3. <u>Utricularia pycnostachya</u>	<u>S</u>	<u>FAC</u>
4. <u>Eleocharis acicularis</u>	<u>S</u>	<u>FAC</u>
5. <u></u>	<u></u>	<u></u>
6. <u></u>	<u></u>	<u></u>
7. <u></u>	<u></u>	<u></u>
8. <u></u>	<u></u>	<u></u>
9. <u></u>	<u></u>	<u></u>
10. <u></u>	<u></u>	<u></u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 75 %

Hydrophytic Vegetation Present? ☒ Yes ☐ No

None Burrows Red
Clear cut

HYDROLOGY

RECORDED DATA (Describe in Remarks):

- ☐ Stream, Lake or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: (in.)
Depth to Free Water in Pit: (in.)
Depth to Saturated Soil: (in.)

Wetland Hydrology Present? ☒ Yes ☐ No

REMARKS

PRIMARY Indicators:

- ☐ Inundated
- ☐ Saturated in Upper 12"
- ☒ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☒ Drainage Patterns in Wetlands

SECONDARY Indicators

- ☒ Oxidized Root Channels in UPPER 12"
- ☐ Water Stained leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

SOILS

Map Unit Name H3A Drainage Class:

Taxonomy (Subgroup): Field Observations Confirm Mapped Type: Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Matrix Color	Mottle	Abundance/Contrast	Texture
<u>0-8</u>	<u>M</u>	<u>10YR 2/3</u>	<u>10YR 2/6</u>	<u>M/H</u>	<u>ST/H/low</u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

HYDRIC SOIL INDICATORS

- ☐ Histosol
- ☐ Reducing Conditions
- ☐ Mosaic Eupetion
- ☐ Gleyed or Low Chroma Colors
- ☐ Sulfidic Odor
- ☐ Concretions
- ☐ Aquic Moisture Regime
- ☐ High Organic Substrate
- ☐ 2 Stage or National Hydric Soils

Hydric Soil Present? ☒ Yes ☐ No

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No
Is this sampling point a Wetland? ☒ Yes ☐ No

ROUTINE WETLAND DETERMINATION DATA FORM

1987 MANUAL

HYDROLOGY

Project/Site: Middle field

Applicant/Owner: FE

Investigator(s): Deborah J. Thompson

Date: 5/2/88 Community ID: 2210153

County: Calaveras Transsect ID: 1

State: CA Plot ID: 1100 500

Do Normal Circumstances exist on the site?

YES NO

Is the site significantly & recently disturbed? (Atypical Situation)

YES NO

Is the area a potential Problem Area? (Explain in final remarks)

YES NO

VEGETATION

Dominant Plant Species

Stratum

Indicator

1. <u>Trisetum pallidum</u>	<u>H</u>	<u>FAC</u>
2. <u>Stipa sp.</u>	<u>H</u>	<u>OBC</u>
3. <u>Grass</u>	<u>H</u>	<u>OBC</u>
4. <u>Grass</u>	<u>S</u>	<u>FAC</u>
5. <u>Grass</u>	<u>S</u>	<u>FAC</u>
6.		
7.		
8.		
9.		
10.		

Percent of Dominant Species that are OBL FACW or FAC (excluding FAC-1) 100 %

Hydrophytic Vegetation Present? Yes No

REMARKS:

Clear cut

RECORDED DATA (Describe in Remarks):

- ☐ Stream, Lake or Tide Gauge
- ☒ Aerial Photographs
- ☐ Other
- ☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: 14 (in.)
Depth to Free Water in Pit: 21 (in.)
Depth to Saturated Soil: 21 (in.)

Wetland Hydrology Present?

Yes No

REMARKS

PRIMARY Indicators:

- ☐ Inundated
- ☐ Saturated in Upper 12"
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

SECONDARY Indicators

- ☒ Oxidized Root Channels in UPPER 12"
- ☒ Water Stained leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

SOILS

Map Unit Name: 145A Drainage Class: 1

Taxonomy (Subgroup):

Field Observations Confirm Mapped Type: Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Main Color (Munsell Moist)	Mottle (Munsell Moist)	Abundance/Contrast	Texture
<u>0-12</u>	<u>2.57.6H</u>	<u>gray 5/8</u>	<u>M 1/2</u>	<u>5.1/1.0-2.1</u>	

HYDRIC SOIL INDICATORS

- ☐ Histosol
- ☐ Reducing Conditions
- ☐ Mastic Exposed
- ☒ Gleyed or Low Chroma Colors
- ☐ Sulfide Odor
- ☐ Concrete
- ☐ Aquic Moisture Regime
- ☐ High Organic Substances in Surface Layer
- ☐ Organic Streaking in Sandy Soil
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List

Hydric Soil Present? Yes No

REMARKS

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No
Is this sampling point a Wetland? Yes No

REMARKS

Pr-W072
WPL

ROUTINE WETLAND DETERMINATION-DATA FORM 1987 MANUAL

HYDROLOGY

Project/Site: Middle Field

Applicant/Owner: EC

Investigator(s): Allyson Thunberger

Date: 7-18-07 Community ID: ELSS

County: Sevier Transect ID:

State: OR Plot ID: core up

Do Normal Circumstances exist on the site? YES NO

Is the site significantly & recently disturbed? (Atypical Situation) NO YES

Is the area a potential Problem Area? (Explain in final remarks) NO YES

VEGETATION

Dominant Plant Species

Dominant Plant Species	Stratum	Indicator
1. <u>Sparganium angustifolium</u>	<u>S</u>	<u>FAC?</u>
2. <u>Eleocharis acicularis</u>	<u>S/L</u>	<u>FAC?</u>
3. <u>Eleocharis acicularis</u>	<u>S</u>	<u>FAC?</u>
4. <u>Eleocharis acicularis</u>	<u>H</u>	<u>FAC?</u>
5. <u></u>	<u></u>	<u></u>
6. <u></u>	<u></u>	<u></u>
7. <u></u>	<u></u>	<u></u>
8. <u></u>	<u></u>	<u></u>
9. <u></u>	<u></u>	<u></u>
10. <u></u>	<u></u>	<u></u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-1) 0 %

Hydrophytic Vegetation Present? NO YES

Clear cut

RECORDED DATA (Describe in Remarks):

- ☐ Stream, Lake or Tide Gauge
- ☒ Aerial Photographs
- ☐ Other
- ☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: NA (in.)
Depth to Free Water in Plot: 2 1/2 (in.)
Depth to Saturated Soil: 2 1/2 (in.)

Wetland Hydrology Present? NO YES

REMARKS

PRIMARY Indicators:

- ☐ Inundated
- ☐ Saturated in Upper 12"
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

SECONDARY Indicators

- ☐ Oxidized Root Channels in UPPER 12"
- ☐ Water Stained leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

SOILS

Map Unit Name USA Drainage Class:
(Series and Phase)

Taxonomy (Subgroup): Field Observations Confirm Mapped Type: Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon (Munsell Moist)	Matrix Color (Munsell Moist)	Mottle (Munsell Moist)	Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>12-16</u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
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HYDRIC SOIL INDICATORS

- ☐ Histosol
- ☐ Reducing Conditions
- ☐ Organic Streaking in Sandy Soil
- ☐ Histic Epipedon
- ☐ Gleyed or Low-Chroma Colors
- ☐ Listed on Local Hydric Soils List
- ☐ Sulfidic Odor
- ☐ Concretions
- ☐ Listed on National Hydric Soils List
- ☐ Aquic Moisture Regime
- ☐ High Organic Streaking in 3. channel layer in Sandy Soils

Hydric Soil Present? NO YES

WETLAND DETERMINATION

Hydrophytic Vegetation Present? NO YES
Wetland Hydrology Present? NO YES
Hydric Soils Present? NO YES
Is this sampling point a Wetland? NO YES

Stream floodplain wetland
Routine Wetland Determination
 1987 Corps Wetland Delineation Manual

Project/Site: Geauga County Cross Country Route		Date: 05/10/07
Applicant/owner: FirstEnergy		County: Geauga
Investigator(s): Burns/ Post <i>Thomayer</i>		State: OH
		S/T/R:
Do normal circumstances exist on the site? ☐ Yes ☐ No		Community ID: <i>PS6</i>
Is the site significantly disturbed (atypical situation)? ☐ Yes ☐ No		Transect ID:
Is the area a potential problem area? ☐ Yes ☐ No		Plot ID: <i>JM129</i>
Explanation of atypical or problem area:		
VEGETATION (For *strata, indicate T = tree; S/S = shrub/sapling; H = herb; V = vine)		
Dominant Plant Species	*Stratum	% cover
<i>Phalaris arundinacea</i>	H	
<i>Lysipathes cypripidis</i>	H	
<i>Viburnum acerifolium</i>	S/S	
<i>Cornus amomum</i>	S/S	
<i>Carex vulpinoidea</i>	H	
Indicator		
FACW		
FACW		
FACW		
FACW		
FACW		
HYDROPHYTIC VEGETATION INDICATORS:		
% of dominants OBL, FACW, & FAC: <i>100</i>		
Check all indicators that apply and explain below:		
☐ Visual observation of plant species growing in areas of prolonged inundation/saturation	☐ Physiological/reproductive adaptations	
☐ Morphological adaptations	☒ Wetland plant database	
☐ Technical Literature	☐ Personal knowledge of regional plant communities	
	☐ Other (explain)	
Hydrophytic vegetation present? ☒ Yes ☐ No		
Rationale for decision/Remarks:		
HYDROLOGY		
Is it the growing season? ☒ Yes ☐ No		
Based on: ☐ Soil temp (record temp)		
☒ Other (explain)		
Depth of inundation:	<i>0</i>	inches
Depth to free water in pit:		inches
Depth to saturated soil:	<i>0-6</i>	inches
Check all that apply & explain below:		
☐ Stream, lake or gage data		
☐ Aerial photographs		
☐ Other		
WETLAND HYDROLOGY INDICATORS		
Primary Indicators:		
☐ Inundated		
☒ Saturated in Upper 12 Inches		
☐ Water Marks		
☐ Drift Lines		
☐ Sediment Deposits		
☐ Drainage Patterns in Wetlands		
Secondary Indicators (2 or more Required):		
☐ Oxidized Root Channels in Upper 12 Inches		
☒ Water-Stained Leaves		
☐ Local Soil Survey Data		
☒ FAC-Neutral Test		
☐ Other (Explain in Remarks)		
Wetland hydrology present? ☒ Yes ☐ No		
Rationale for decision/remarks:		

SOILS						Plot ID:													
Map Unit Name (Series and Phase):				Drainage Class															
Taxonomy (subgroup)				Field observations confirm mapped type? ☐ Yes ☐ No															
Profile Description																			
Depth (inches)	Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	Mottle abundance size and contrast	Texture, concretions, structure, etc.	Drawing of soil profile (match description)													
0-12	B	.5Y4/1	10YR 4/6																
Hydric Soil Indicators: (check all that apply) ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☒ Gleyed or Low-Chroma (=1) matrix				☒ Matrix chroma ≤ 2 with mottles ☐ Mg or Fe Concretions ☐ High Organic Content in Surface Layer of Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on National/Local Hydric Soils List ☐ Other (explain in remarks)															
Hydric soils present? ☒ Yes ☐ No Rationale for decision/Remarks:																			
Wetland Determination																			
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Hydrophytic vegetation present?</td> <td style="width: 10%;">☒ Yes</td> <td style="width: 10%;">☐ No</td> <td rowspan="4" style="width: 50%;"></td> </tr> <tr> <td>Hydric soils present?</td> <td>☒ Yes</td> <td>☐ No</td> </tr> <tr> <td>Wetland hydrology present?</td> <td>☒ Yes</td> <td>☐ No</td> </tr> <tr> <td>Is the sampling point within a wetland?</td> <td>☒ Yes</td> <td>☐ No</td> </tr> </table>							Hydrophytic vegetation present?	☒ Yes	☐ No		Hydric soils present?	☒ Yes	☐ No	Wetland hydrology present?	☒ Yes	☐ No	Is the sampling point within a wetland?	☒ Yes	☐ No
Hydrophytic vegetation present?	☒ Yes	☐ No																	
Hydric soils present?	☒ Yes	☐ No																	
Wetland hydrology present?	☒ Yes	☐ No																	
Is the sampling point within a wetland?	☒ Yes	☐ No																	
Rationale/Remarks: <i>all 3 criteria met.</i>																			

NOTES:

Revised 3/01

Project/Site: Geauga County Cross Country Route		Date: 05/10/07	
Applicant/owner: FirstEnergy		County: Geauga	
Investigator(s): Burns/ Paul <i>Thompson</i>		State: OH	
		S/T/R:	

Do normal circumstances exist on the site? ☐ Yes ☐ No		Community ID: <i>PSL</i> Transect ID: Plot ID: <i>JM129</i>
Is the site significantly disturbed (atypical situation)? ☐ Yes ☐ No		
Is the area a potential problem area? ☐ Yes ☐ No		
Explanation of atypical or problem area:		

VEGETATION (For *strata, indicate T = tree; S/S = shrub/sapling; H = herb; V = vine)

Dominant Plant Species	*Stratum	% cover	Indicator	Dominant Plant Species	*Stratum	% cover	Indicator
<i>Phlox pilularis</i>	H		FACW				
<i>Impatiens capensis</i>	H		FACW				
<i>Valeriana racemosa</i>	S/S		FACW				
<i>Cornus amomum</i>	S/S		FACW				
<i>Carex vulpinoidea</i>	H		FACW				

HYDROPHYTIC VEGETATION INDICATORS:

% of dominants OBL, FACW, & FAC: *100*

Check all indicators that apply and explain below:

☐ Visual observation of plant species growing in areas of prolonged inundation/saturation	☐ Physiological/reproductive adaptations
☐ Morphological adaptations	☒ Wetland plant database
☐ Technical Literature	☐ Personal knowledge of regional plant communities
	☐ Other (explain)

Hydrophytic vegetation present? ☒ Yes ☐ No

Rationale for decision/Remarks:

HYDROLOGY

Is it the growing season? ☒ Yes ☐ No

Based on: ☐ Soil temp (record temp)
☒ Other (explain)

Depth of inundation: <i>0</i> inches	WETLAND HYDROLOGY INDICATORS Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands
Depth to free water in pit: <i>0-6</i> inches	
Depth to saturated soil: <i>0-6</i> inches	

Check all that apply & explain below:

☐ Stream, lake or gage data	Secondary Indicators (2 or more Required): ☐ Oxidized Root Channels in Upper 12 Inches ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (Explain in Remarks)
☐ Aerial photographs	
☐ Other	

Wetland hydrology present? ☒ Yes ☐ No

Rationale for decision/remarks:

SOILS						Plot ID:
Map Unit Name (Series and Phase):				Drainage Class		
Taxonomy (subgroup)				Field observations confirm mapped type? ☐ Yes ☐ No		
Profile Description						
Depth (Inches)	Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	Mottle abundance size and contrast	Texture, concretions, structure, etc.	Drawing of soil profile (match description)
0-12	B	.5Y4/1	10YR 4/6			
Hydric Soil Indicators: (check all that apply) ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☒ Gleyed or Low-Chroma (=1) matrix				☒ Matrix chroma ≤ 2 with mottles ☐ Mg or Fe Concretions ☐ High Organic Content in Surface Layer of Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on National/Local Hydric Soils List ☐ Other (explain in remarks)		
Hydric soils present? ☒ Yes ☐ No Rationale for decision/Remarks:						
Wetland Determination						
Hydrophytic vegetation present? ☒ Yes ☐ No Hydric soils present? ☒ Yes ☐ No Wetland hydrology present? ☒ Yes ☐ No Is the sampling point within a wetland? ☒ Yes ☐ No						
Rationale/Remarks: <i>All 3 criteria met.</i>						

NOTES:

Revised 3/01

Routine Wetland Determination

Project/Site: Geauga County Cross Country Route Applicant/owner: FirstEnergy Investigator(s): Burns/ Paul <i>Thompson</i>	Date: 05/10/07 County: Geauga State: OH S/T/R:																																																								
Do normal circumstances exist on the site? ☐ Yes ☐ No Is the site significantly disturbed (atypical situation)? ☐ Yes ☐ No Is the area a potential problem area? ☐ Yes ☐ No Explanation of atypical or problem area:	Community ID: PEM/PES Transect ID: <i>Map 15</i> Plot ID: <i>JM 130</i>																																																								
VEGETATION (For *strata, indicate T = tree; S/S = shrub/sapling; H = herb; V = vine)																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dominant Plant Species</th> <th>*Stratum</th> <th>% cover</th> <th>Indicator</th> <th>Dominant Plant Species</th> <th>*Stratum</th> <th>% cover</th> <th>Indicator</th> </tr> </thead> <tbody> <tr> <td><i>Juncus effusus</i></td> <td>H</td> <td></td> <td>FACW</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>Sagittaria arifolia</i></td> <td>H</td> <td></td> <td>FACW</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>Cornus amomum</i></td> <td>S/S</td> <td></td> <td>FACW</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>Carex vulpinoidea</i></td> <td>H</td> <td></td> <td>OBL</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Dominant Plant Species	*Stratum	% cover	Indicator	Dominant Plant Species	*Stratum	% cover	Indicator	<i>Juncus effusus</i>	H		FACW					<i>Sagittaria arifolia</i>	H		FACW					<i>Cornus amomum</i>	S/S		FACW					<i>Carex vulpinoidea</i>	H		OBL																				
Dominant Plant Species	*Stratum	% cover	Indicator	Dominant Plant Species	*Stratum	% cover	Indicator																																																		
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HYDROLOGY Is it the growing season? ☒ Yes ☐ No Based on: ☐ Soil temp (record temp) ☒ Other (explain)																																																									
Depth of inundation: _____ inches Depth to free water in pit: _____ inches Depth to saturated soil: <i>0-6</i> inches Check all that apply & explain below: ☐ Stream, lake or gage data ☐ Aerial photographs ☐ Other	WETLAND HYDROLOGY INDICATORS Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more Required): ☐ Oxidized Root Channels in Upper 12 Inches ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)																																																								
Wetland hydrology present? ☒ Yes ☐ No Rationale for decision/remarks:																																																									

SOILS						Plot ID:
Map Unit Name (Series and Phase):				Drainage Class		
Taxonomy (subgroup)				Field observations confirm mapped type? ☐ Yes ☐ No		
Profile Description						
Depth (Inches)	Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	Mottle abundance size and contrast	Texture, concretions, structure, etc.	Drawing of soil profile (match description)
0-7	A	2.5Y4/1	10YR 3/6	many, small		
7-12	B	2.5Y6/1	10YR 5/6	few, large		
Hydric Soil Indicators: (check all that apply) ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☒ Gleyed or Low-Chroma (=1) matrix ☒ Matrix chroma $\leq$ 2 with mottles ☐ Mg or Fe Concretions ☐ High Organic Content in Surface Layer of Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on National/Local Hydric Soils List ☐ Other (explain in remarks)						
Hydric soils present? ☒ Yes ☐ No Rationale for decision/Remarks:						
Wetland Determination						
Hydrophytic vegetation present? ☒ Yes ☐ No Hydric soils present? ☒ Yes ☐ No Wetland hydrology present? ☒ Yes ☐ No Is the sampling point within a wetland? ☒ Yes ☐ No						
Rationale/Remarks: <i>all 3 criteria met</i>						

NOTES:

Revised 3/01

Routine Wetland Determination 1987 Corps Wetland Delineation Manual

Project/Site: Geauga County Cross Country Route		Date: 05/10/07	
Applicant/owner: FirstEnergy		County: Geauga	
Investigator(s): Burns/ Per <i>Thompe</i>		State: OH	
S/T/R:		Community ID: <i>PER/PSS</i>	
Do normal circumstances exist on the site? ☐ Yes ☐ No		Transect ID: <i>MAP 15</i>	
Is the site significantly disturbed (atypical situation)? ☐ Yes ☐ No		Plot ID: <i>JM 131</i>	
Is the area a potential problem area? ☐ Yes ☐ No		Explanation of atypical or problem area:	

VEGETATION (For *strata, indicate T = tree; S/S = shrub/sapling; H = herb; V = vine)

Dominant Plant Species	*Stratum	% cover	Indicator	Dominant Plant Species	*Stratum	% cover	Indicator
<i>Onoclea sensibilis</i>	H		FACW				
<i>Juncus effusus</i>	H		FACW				
<i>Carex vulpina</i>	H		OBL				
<i>Cornus amomum</i>	S/S		FACW				
<i>Viburnum acerifolium</i>	S/S		FACW				

HYDROPHYTIC VEGETATION INDICATORS:

% of dominants OBL, FACW, & FAC: *100*

Check all indicators that apply and explain below:

☐ Visual observation of plant species growing in areas of prolonged inundation/saturation	☐ Physiological/reproductive adaptations
☐ Morphological adaptations	☒ Wetland plant database
☐ Technical Literature	☐ Personal knowledge of regional plant communities
	☐ Other (explain)

Hydrophytic vegetation present? ☒ Yes ☐ No

Rationale for decision/Remarks:

HYDROLOGY

Is it the growing season? ☒ Yes ☐ No

Based on: ☐ Soil temp (record temp)

☒ Other (explain)

Depth of inundation: <i>0</i> inches Depth to free water in pit: _____ inches Depth to saturated soil: <i>0-6</i> inches	WETLAND HYDROLOGY INDICATORS Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more Required): ☐ Oxidized Root Channels in Upper 12 Inches ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
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Check all that apply & explain below:

- ☐ Stream, lake or gage data
- ☐ Aerial photographs
- ☐ Other

Wetland hydrology present? ☒ Yes ☐ No

Rationale for decision/remarks:

SOILS						Plot ID:
Map Unit Name (Series and Phase):				Drainage Class		
Taxonomy (subgroup)				Field observations confirm mapped type? ☐ Yes ☐ No		
Profile Description						
Depth (inches)	Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	Mottle abundance size and contrast	Texture, concretions, structure, etc.	Drawing of soil profile (match description)
0-4	A	10YR 2/3	10YR 4/6	few		
4-10	B	2.5Y 5/2	10YR 5/6			
Hydric Soil Indicators: (check all that apply)				☒ Matrix chroma $\leq$ 2 with mottles ☐ Mg or Fe Concretions ☐ High Organic Content in Surface Layer of Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on National/Local Hydric Soils List ☐ Other (explain in remarks)		
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☐ Gleyed or Low-Chroma (=1) matrix				Hydric soils present? ☒ Yes ☐ No Rationale for decision/Remarks:		
Wetland Determination Hydrophytic vegetation present? ☒ Yes ☐ No Hydric soils present? ☒ Yes ☐ No Wetland hydrology present? ☒ Yes ☐ No Is the sampling point within a wetland? ☒ Yes ☐ No Rationale/Remarks: <i>All 3 criteria met</i>						

NOTES:

Revised 3/01

Pr-WD 11
Wetland 234

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML LJS</u>	Date: <u>5/16/07</u> County: <u>Geauga</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes <u>X</u> No <u> </u> Is the site significantly disturbed (Atypical situation)? Yes <u> </u> No <u>X</u> Is the area a potential problem area? Yes <u> </u> No <u>X</u> (explain on reverse if needed)	Community ID: <u>PSS/PE</u> Transect ID: <u> </u> Plot ID: <u> </u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Onoclea sensibilis</u>	<u>Herb</u>	<u>FACW</u>	9. <u> </u>	<u> </u>	<u> </u>
2. <u>Viburnum dentatum</u>	<u>Shrub</u>	<u>FAC</u>	10. <u> </u>	<u> </u>	<u> </u>
3. <u>Cornus amomum</u>	<u>Shrub</u>	<u>FACW</u>	11. <u> </u>	<u> </u>	<u> </u>
4. <u>Urtica grass</u>	<u> </u>	<u> </u>	12. <u> </u>	<u> </u>	<u> </u>
5. <u> </u>	<u> </u>	<u> </u>	13. <u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	14. <u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	15. <u> </u>	<u> </u>	<u> </u>
8. <u> </u>	<u> </u>	<u> </u>	16. <u> </u>	<u> </u>	<u> </u>

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 100

Remarks:

HYDROLOGY

<u> </u> Recorded Data (Describe in Remarks): <u> </u> Stream, Lake, or Tide Gauge <u> </u> Aerial Photographs <u> </u> Other <u> </u> No Recorded Data Available Field Observations: Depth of Surface Water: <u>0-1</u> (in.) Depth to Free Water in Pit: <u>3</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	Wetland Hydrology Indicators Primary Indicators: <u>✓</u> Inundated <u>✓</u> Saturated in Upper 12" <u> </u> Water Marks <u> </u> Drift Lines <u> </u> Sediment Deposits <u> </u> Drainage Patterns in Wetlands Secondary Indicators: <u> </u> Oxidized Roots Channels in Upper 12" <u>✓</u> Water-Stained Leaves <u> </u> Local Soil Survey Data <u>✓</u> FAC-Neutral Test <u> </u> Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-12	A/B	10YR5/1	—	—	silty clay

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point	
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland?	Yes ☐ No ☐
Hydric Soils Present?	Yes ☒ No ☐		

Remarks:

Upland Point for
Wetland 234

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Star</u> Investigator: <u>ML, LB</u>	Date: <u>5/10/07</u> County: <u>Sevier</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes <u>X</u> No <u> </u> Is the site significantly disturbed (Atypical situation)? Yes <u> </u> No <u>X</u> Is the area a potential problem area? Yes <u> </u> No <u>X</u> (explain on reverse if needed)	Community ID: <u> </u> Transect ID: <u> </u> Plot ID: <u> </u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Populus tremuloides</u>	<u>Tree</u>	<u>FACU</u>	9. <u> </u>	<u> </u>	<u> </u>
2. <u>Prunus serotina</u>	<u>Tree</u>	<u>FACU</u>	10. <u> </u>	<u> </u>	<u> </u>
3. <u>Acer rubrum</u>	<u>Tree</u>	<u>FAC</u>	11. <u> </u>	<u> </u>	<u> </u>
4. <u>Viburnum dentatum</u>	<u>Shrub</u>	<u>FAC</u>	12. <u> </u>	<u> </u>	<u> </u>
5. <u> </u>	<u> </u>	<u> </u>	13. <u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	14. <u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	15. <u> </u>	<u> </u>	<u> </u>
8. <u> </u>	<u> </u>	<u> </u>	16. <u> </u>	<u> </u>	<u> </u>

Young disturbed forest P

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-).

Remarks: Sparse herb layer

HYDROLOGY

<u> </u> Recorded Data (Describe in Remarks): <u> </u> Stream, Lake, or Tide Gauge <u> </u> Aerial Photographs <u> </u> Other <u> </u> No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	Wetland Hydrology Indicators Primary Indicators: <u> </u> Inundated <u> </u> Saturated in Upper 12" <u> </u> Water Marks <u> </u> Drift Lines <u> </u> Sediment Deposits <u> </u> Drainage Patterns in Wetlands Secondary Indicators: <u> </u> Oxidized Roots Channels in Upper 12" <u> </u> Water-Stained Leaves <u> </u> Local Soil Survey Data <u> </u> FAC-Neutral Test <u> </u> Other (Explain in Remarks)
Remarks: <u> </u>	

SOILS

Map Unit Name

(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-12	A/B	10YR	10YR 5/3	—	Silty loam, clay

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ___ No ☒	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No ☒	Within a Wetland?	Yes ___ No ___
Hydric Soils Present?	Yes ___ No ☒		

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Middlefield</u> Applicant/Owner: <u>First Star</u> Investigator: <u>ML, LB</u>	Date: <u>5/10/07</u> County: <u>Seavaca</u> State: <u>OH</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Community ID: <u>PfM/PBS</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Oenothera sensibilis</u>	<u>Herb</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Viburnum dentatum</u>	<u>Shrub</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Unknown grass</u>	<u>Herb</u>	<u>-</u>	11. _____	_____	_____
4. <u>Nyssa sylvatica</u>	<u>Tree</u>	<u>FAC</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

on edge of wetland

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	<u>100%</u>
Remarks:	

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>0-1</u> (in.) Depth to Free Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12 Inches ☒ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

upland site for Pr-w078
wetland 233
UPL

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u>	Date: <u>5/10/07</u>
Applicant / Owner: <u>First Star</u>	County: <u>Georgia</u>
Investigator: <u>ML, LB</u>	State: <u>GA</u>
Do normal circumstances exist on the site? Yes <u>X</u> No <u> </u>	Community ID: <u> </u>
Is the site significantly disturbed (Atypical situation)? Yes <u> </u> No <u>X</u>	Transect ID: <u> </u>
Is the area a potential problem area? Yes <u> </u> No <u>X</u> (explain on reverse if needed)	Plot ID: <u> </u>

VEGETATION

Young Upland Disturbed Forest

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Fraxinus americana</u>	<u>Tree</u>	<u>FACU</u>	9. <u> </u>	<u> </u>	<u> </u>
2. <u>Quercus rubra</u>	<u>Tree</u>	<u>FACU</u>	10. <u> </u>	<u> </u>	<u> </u>
3. <u>Acer rubrum</u>	<u>Tree</u>	<u>FAC</u>	11. <u> </u>	<u> </u>	<u> </u>
4. <u>Rosa multiflora</u>	<u>shrub</u>	<u>FACU</u>	12. <u> </u>	<u> </u>	<u> </u>
5. <u>Erythronium americanum</u>	<u>Herb</u>	<u>OPL</u>	13. <u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	14. <u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	15. <u> </u>	<u> </u>	<u> </u>
8. <u> </u>	<u> </u>	<u> </u>	16. <u> </u>	<u> </u>	<u> </u>
Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). <u>20%</u>					
Remarks:					

HYDROLOGY

<u> </u> Recorded Data (Describe in Remarks): <u> </u> Stream, Lake, or Tide Gauge <u> </u> Aerial Photographs <u> </u> Other <u> </u> No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	Wetland Hydrology Indicators Primary Indicators: <u> </u> Inundated <u> </u> Saturated in Upper 12" <u> </u> Water Marks <u> </u> Drift Lines <u> </u> Sediment Deposits <u> </u> Drainage Patterns in Wetlands Secondary Indicators: <u> </u> Oxidized Roots Channels in Upper 12" <u> </u> Water-Stained Leaves <u> </u> Local Soil Survey Data <u> </u> FAC-Neutral Test <u> </u> Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4	A	2.5Y 4/2	—	—	Silty loam
4-12	B	2.5Y 6/6	—	—	silty loam

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ___ No ☒	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No ☒	Within a Wetland?	Yes ___ No ☒
Hydric Soils Present?	Yes ___ No ☒		

Remarks:

91-0079
Wetland 232

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u>		Date: <u>5/10/07</u>
Applicant / Owner: <u>First Star</u>		County: <u>Geauga</u>
Investigator: <u>M.L.L.B.</u>		State: <u>OH</u>
Do normal circumstances exist on the site? Yes <u>X</u> No <u> </u>		Community ID: <u>PEM1PFD</u> Transect ID: <u> </u> Plot ID: <u> </u>
Is the site significantly disturbed (Atypical situation)? Yes <u> </u> No <u>X</u>		
Is the area a potential problem area? Yes <u> </u> No <u>X</u> (explain on reverse if needed)		

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Impatiens capensis</u>	<u>Herb</u>	<u>FACW</u>	9. <u> </u>	<u> </u>	<u> </u>
2. <u>Toxicodendron radicans</u>	<u>Herb</u>	<u>FAC</u>	10. <u> </u>	<u> </u>	<u> </u>
3. <u>Betula alleghaniensis</u>	<u>Tree</u>	<u>FAC</u>	11. <u> </u>	<u> </u>	<u> </u>
4. <u> </u>	<u> </u>	<u> </u>	12. <u> </u>	<u> </u>	<u> </u>
5. <u> </u>	<u> </u>	<u> </u>	13. <u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	14. <u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	15. <u> </u>	<u> </u>	<u> </u>
8. <u> </u>	<u> </u>	<u> </u>	16. <u> </u>	<u> </u>	<u> </u>

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-. 100%

Remarks: lots of open areas with no vegetation with 1-2 inches of water

HYDROLOGY

Recorded Data (Describe in Remarks): <u> </u> Stream, Lake, or Tide Gauge <u> </u> Aerial Photographs <u> </u> Other <u> </u> No Recorded Data Available Field Observations: Depth of Surface Water: <u>1-2</u> (in.) Depth to Free Water in Pit: <u>0</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	Wetland Hydrology Indicators Primary Indicators: <u> </u> Inundated <u> </u> Saturated in Upper 12" <u> </u> Water Marks <u> </u> Drift Lines <u> </u> Sediment Deposits <u> </u> Drainage Patterns in Wetlands Secondary Indicators: <u> </u> Oxidized Roots Channels in Upper 12" <u> </u> Water-Stained Leaves <u> </u> Local Soil Survey Data <u> </u> FAC-Neutral Test <u> </u> Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name

(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-4	A	10YR 2/1	—	—	s.f.
4-12	B	10YR 5/1	—	—	s.f., clay

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point	
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland?	Yes ☒ No ☐
Hydric Soils Present?	Yes ☒ No ☐		

Remarks:

11-WU 1-1 UPL
Upland point
for Wetland 232

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Middlefield</u> Applicant/Owner: <u>First Star</u> Investigator: <u>ML, L.B.</u>	Date: <u>5/10/07</u> County: <u>Greene</u> State: <u>OH</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Community ID: _____ Transect ID: _____ Plot ID: _____

Young Upland mesic hardwood forest

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>		<u>FAC</u>	9. _____		
2. <u>Acer saccharum</u>		<u>FACU-</u>	10. _____		
3. <u>Erythronium americanum</u>		<u>UPL</u>	11. _____		
4. <u>Toxicodendron radicans</u>		<u>FAC</u>	12. _____		
5. _____			13. _____		
6. _____			14. _____		
7. _____			15. _____		
8. _____			16. _____		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). 50%

Remarks: _____

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>None</u> (in.) Depth to Free Water in Pit: <u>None</u> (in.) Depth to Saturated Soil: <u>None</u> (in.)	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in Upper 12 inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12 inches ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks: _____	

pr-w080

Wetland 231

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Geauga</u> Applicant/Owner: <u>First Energy</u> Investigator: <u>ML, LB</u>	Date: <u>5/10/07</u> County: <u>Geauga</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Community ID: <u>PSS/PEM</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Juncus effusus</u>	<u>Herb</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Viburnum dentatum</u>	<u>Shrub</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Rhamnus frangula</u>	<u>Shrub</u>	<u>FAC</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available	Wetland hydrology indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☐ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>0-1</u> (in.) Depth to Free Water in Pit: <u>6 in</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	Remarks: _____

SOILS

Map Unit Name (Series and Phase): _____			Drainage Class: _____		
Taxonomy (Subgroup): _____			Field Observations Confirm Mapped Type? Yes No		
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-6	A	10YR 4/1	—	—	silty clay
6-12	B	10YR 6/1	10YR 6/1	30%	silty clay

Hydric Soil Indicators:

☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☒ Gleyed or Low-Chroma Colors	☐ Concretions ☐ High Organic Content in Surface Layer Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other (Explain in Remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)	(Circle) Is this Sampling Point Within a Wetland? Yes No
Wetland Hydrology Present? Yes No	
Hydric Soils Present? Yes No	
Remarks:	

Dr-W080 UPL
Upland point for
wetland 231

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>M.L.L.B.</u>	Date: <u>5/10/07</u> County: <u>Georgia</u> State: <u>GA</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PSS</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Malus malus</u>	<u>Tree</u>	<u>UPL</u>	9. _____	_____	_____
2. <u>multiflora rose</u>	<u>shrub</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Liriodendron dentatum</u>	<u>shrub</u>	<u>FAC</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-. 33%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ☒ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3	A	10YR 3/2	—	—	silty clay
3-12	B	10YR 6/2	10YR 5/6	40%	silty clay

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ___ No ☒	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No ☒	Within a Wetland?	Yes ___ No ☒
Hydric Soils Present?	Yes ___ No ☒		

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Genuga Co.</u> Applicant/Owner: <u>FirstEnergy</u> Investigator: <u>jgk-bp</u>	Date: <u>5/10/2007</u> County: <u>Genuga</u> State: <u>OH</u>
Do Normal Circumstances exist on the site? Yes <u>No</u> Is the site significantly disturbed (Atypical Situation)? Yes <u>No</u> Is the area a potential Problem Area? Yes <u>No</u> (If needed, explain on reverse.)	Community ID: <u>pen</u> Transect ID: _____ Plot ID: <u>ik 0510-1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Onoclea sensibilis</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Polygonum persicaria</u>	<u>H</u>	<u>FAC-</u>	10. _____	_____	_____
3. <u>Toxicodendron radicans</u>	<u>H</u>	<u>FAC-</u>	11. _____	_____	_____
4. <u>Carex stipata</u>	<u>H</u>	<u>FACW+</u>	12. _____	_____	_____
5. <u>Scirpus spp.</u>	<u>H</u>	<u>FACW-</u>	13. _____	_____	_____
6. <u>Juncus effusus</u>	<u>H</u>	<u>FACW+</u>	14. _____	_____	_____
7. <u>Typha angustifolia</u>	<u>H</u>	<u>OBL</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: _____

HYDROLOGY

Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☒ No Recorded Data Available Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>surface</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12 inches ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (Explain in Remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____ Field Observations Confirm Mapped Type? Yes No	
Taxonomy (Subgroup): _____			

Profile Description: Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
3	a	10yr 4/2	na		silt loam
3-8	b	5y 5/2	5y 5/3	common	silt loam

Hydric Soil Indicators:

☐ 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 (Explain in Remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle) Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Geauga Co.</u> Applicant/Owner: <u>FirstEnergy</u> Investigator: <u>jgk bp</u>	Date: <u>5/10/2007</u> County: <u>Geauga</u> State: <u>OH</u>
Do Normal Circumstances exist on the site? Yes <u> </u> No <u> </u> Is the site significantly disturbed (Atypical Situation)? Yes <u> </u> No <u> </u> Is the area a potential Problem Area? Yes <u> </u> No <u> </u> (If needed, explain on reverse.)	Community ID: <u>pfo/pam</u> Transect ID: <u> </u> Plot ID: <u>ik 05102</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stipata</u>	<u>H</u>	<u>OBL</u>	9. <u> </u>	<u> </u>	<u> </u>
2. <u>Onoclea sensibilis</u>	<u>H</u>	<u>OBL</u>	10. <u> </u>	<u> </u>	<u> </u>
3. <u>Carex spp.</u>	<u>H</u>	<u>FACW+</u>	11. <u> </u>	<u> </u>	<u> </u>
4. <u>Viola palustris</u>	<u>H</u>	<u>FACW+</u>	12. <u> </u>	<u> </u>	<u> </u>
5. <u>Phragmites australis</u>	<u>H</u>	<u>FACW+</u>	13. <u> </u>	<u> </u>	<u> </u>
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC+</u>	14. <u> </u>	<u> </u>	<u> </u>
7. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW+</u>	15. <u> </u>	<u> </u>	<u> </u>
8. <u>0</u>	<u>0</u>	<u>0</u>	16. <u> </u>	<u> </u>	<u> </u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC+): 100

Remarks:

HYDROLOGY

Recorded Data (Describe in Remarks): <u> </u> Stream, Lake, or Tide Gauge <u> </u> Aerial Photographs <u> </u> Other <u> X </u> No Recorded Data Available Field Observations: Depth of Surface Water: <u> 0 </u> (in.) Depth to Free Water in Pit: <u> 0 </u> (in.) Depth to Saturated Soil: <u> surf </u> (in.)	Wetland Hydrology Indicators: Primary Indicators: <u> X </u> Inundated <u> X </u> Saturated in Upper 12 inches <u> X </u> Water Marks <u> </u> Drift Lines <u> </u> Sediment Deposits <u> X </u> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <u> </u> Oxidized Root Channels in Upper 12 inches <u> </u> Water-Stained Leaves <u> </u> Local Soil Survey Data <u> X </u> FAC-Neutral Test <u> </u> Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____ Field Observations Confirm Mapped Type? Yes No	
Taxonomy (Subgroup): _____			

Profile Description: Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-3	a		2.5y 3/2		
3-12	b	5y 6/2	5y 3/2	many	silty clay

Hydric Soil Indicators:

☐ 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 (Explain in Remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <u>Yes</u> No (Circle) Wetland Hydrology Present? <u>Yes</u> No Hydric Soils Present? <u>Yes</u> No	(Circle) Is this Sampling Point Within a Wetland? <u>Yes</u> No
Remarks:	

Approved by HQUSACE 3/92

Dr-W083

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>IS Energy</u> Investigator: <u>ML + BP</u>	Date: <u>05-21-07</u> County: <u>Greene</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PEM/PS</u> Transect ID: <u>Wt</u> Plot ID: <u>MB-8</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Impatiens capensis</u>	<u>H</u>	<u>FAC-W</u>	9. _____	_____	_____
2. <u>Oxycoccus sp.</u>	<u>H</u>	<u>FAC-W</u>	10. _____	_____	_____
3. <u>Utricularia detortum</u>	<u>S</u>	<u>FAC-W</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). _____

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: <u>212</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ☒ Oxidized Roots Channels in Upper 12" ☒ Water-Stained Leaves ___ Local Soil Survey Data ☒ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
2+	B	10YR 4/1	10YR 5/8		Silty clay
0-2	A	10YR 5/2			Silt

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland? Yes ☒ No ☐
Hydric Soils Present?	Yes ☒ No ☐	

Remarks:

Pr-W083
LPL

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Malden Field</u> Applicant / Owner: <u>ISI Energy</u> Investigator: <u>ML + RP</u>	Date: <u>05-31-07</u> County: <u>Crawson</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>FG</u> Transect ID: <u>upland</u> Plot ID: <u>MR-B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Frax - americana</u>	<u>S</u>	<u>FAC-U</u>	10. _____	_____	_____
3. <u>Frax - americana</u>	<u>U</u>	<u>FAC-U</u>	11. _____	_____	_____
4. <u>Crataegus sp.</u>	<u>S</u>	<u>FAC-U</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 25%

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: <u>712</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ☐ Inundated ☐ Saturated in Upper 12" ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators: ☐ Oxidized Roots Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10YR 6/3			
6+	B	10YR 7/2	10YR 6/8	C/D	

Hydric Soil Indicators:

- | | |
|--|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ___ No ☒	Is the Sampling Point	
Wetland Hydrology Present?	Yes ___ No ☒	Within a Wetland?	Yes ___ No ☒
Hydric Soils Present?	Yes ___ No ☒		

Remarks:

Pr-w084

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>1st Energy</u> Investigator: <u>MLT BP</u>	Date: <u>05/31/07</u> County: <u>Geauga</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes ☒ No ☐ Is the site significantly disturbed (Atypical situation)? Yes ☐ No ☒ Is the area a potential problem area? Yes ☐ No ☒ (explain on reverse if needed)	Community ID: <u>PEM</u> Transect ID: <u>Wet 1</u> Plot ID: <u>MB 9</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Phragmites australis</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. _____	_____	_____	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). _____

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated ☒ Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ☒ Oxidized Roots Channels in Upper 12" ☒ Water-Stained Leaves ___ Local Soil Survey Data ☒ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: *Middle Shoal*
 COUNTY: *Georgia*
 STATE: *GA*
 INVESTIGATORS: Robert Repasky
 DATE: *07-05-91*

APPLICANT OWNER: *FE*
 COMMUNITY ID: *PEM*
 TRANSECT ID:
 PLOT ID: *0531-12*

Do Normal Circumstances Exist On The Site? Yes
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes

No
 No
 No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Panicum</i>	<i>AB</i>	<i>H</i>	9.		
2. <i>Tripsac</i>	<i>AB</i>	<i>H</i>	10.		
3.			11.		
4.			12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present? *Yes* No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

☒ Stream, Lake, or Tide Group
☒ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

☐ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☒ Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: (inches)
 Depth of Free Water in Pit (inches)
 Depth to Saturated Soils: (inches)

SECONDARY INDICATORS:

☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? *Yes* No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<i>0-11</i>	<i>A</i>	<i>10 YR 6/1</i>	<i>10 Y 4/1</i>	<i>MA</i>	
	<i>B</i>				
	<i>C</i>				

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

HYDRIC SOIL INDICATORS:

☐ Histosol
☐ Histic Epipedon
☒ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed / Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? *Yes* No

Remarks:

Hydrophytic Vegetation Present? Yes No
 Wetland Hydrology Present? Yes No
 Hydric Soils Present? Yes No
 Is This Sampling Point a Wetland? Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middle Island
 COUNTY: Georgia
 STATE: GA
 INVESTIGATORS: Robert Repasky
 DATE: 5/30/07

APPLICANT OWNER: Fishery
 COMMUNITY ID: FO UPL
 TRANSECT ID:
 PLOT ID:

RT-0531-12-UR-

Do Normal Circumstances Exist On The Site? Yes
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes

No
 No
 No

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Albizia</u>	<u>T</u>	<u>FACU</u>	9.		
2. <u>Albizia</u>	<u>T</u>	<u>FAC</u>	10.		
3. <u>Albizia</u>	<u>T</u>	<u>FACU</u>	11.		
4. <u>Albizia</u>	<u>H</u>	<u>FAC</u>	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-)

Hydrophytic Vegetation Present

Yes

No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS

☐ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS

Depth of Surface Water 1.5 (inches)
 Depth of Free Water in Pit 1.5 (inches)
 Depth to Saturated Soils 1.5 (inches)

SECONDARY INDICATORS

☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present?

Yes

No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup)

Drainage Class

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance - Contrast)	Texture
0-10	A	10YR 4/1	10YR 5/5		
	B				
	C				

HYDRIC SOIL INDICATORS:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☐ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils

☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present?

Yes

No

Remarks:

Hydrophytic Vegetation Present?

Yes

No

Wetland Hydrology Present?

Yes

No

Hydric Soils Present?

Yes

No

Is This Sampling Point a Wetland?

Yes

No

Remarks:

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: M. Addefford
 COUNTY: Lewis
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 5/31/02

APPLICANT OWNER: F. E.
 COMMUNITY ID: PFO
 TRANSECT ID:
 PLOT ID: RT 0581 - 11

Do Normal Circumstances Exist On The Site? Yes No
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes No
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Acer rubrum</i>	T	FAC	9. <i>UPL</i>		
2. <i>Onoclea sensibilis</i>	H	OBL	10.		
3. <i>Taxus canadensis</i>	T	FAC	11. <i>Prunus</i>		
4. <i>Carex amphiploba</i>	H	FAC	12.		
5. <i>Galium aparine</i>	H	OBL	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-):

Hydrophytic Vegetation Present: Yes No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

Stream, Lake, or Tide Group
 Aerial Photographs
 Other
 None Available

PRIMARY INDICATORS:

Saturated in the Upper 12 inches
 Water Marks
 Drift Lines
 Sediment Deposits
 Drainage Patterns in Wetlands

FIELD OBSERVATIONS:

Depth of Surface Water: 10/2 (inches)
 Depth of Free Water in Pit: 10 (inches)
 Depth to Saturated Soils: surface (inches)

SECONDARY INDICATORS:

Oxidized Root Channels in Upper 12 inches
 Water Stained Leaves
 Local Soil Survey Data
 FAC-Neutral Test
 Other (Explain in Remarks)

Wetland Hydrology Present? Yes No

Remarks:

SOILS:

Map Unit Name (Series and Phase)
 Taxonomy (Subgroup):

Drainage Class:
 Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
0-10	A	10YR 4/1	10YR 5/5	FEW	loam
	B				
	C				

HYDRIC SOIL INDICATORS:

Histosol
 Histic Epipedon
 Sulfidic Odor
 Aquic Moisture Regime
 Reducing Conditions
 Gleyed / Low-Chroma Soils
 Concretions
 Organic Streaking in Sandy Soils
 Listed on Local Hydric Soils List
 Listed on National Hydric Soils List
 Other (see Remarks)

Hydric Soils Present? Yes No

Remarks:

Hydrophytic Vegetation Present? Yes No

Wetland Hydrology Present? Yes No

Hydric Soils Present? Yes No

Is This Sampling Point a Wetland? Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

USEF (SACE) MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE Middle Island
 COUNTY Wessex
 STATE OH
 INVESTIGATORS Robert Repasky
 DATE 5/30/07

APPLICANT OWNER Fishery
 COMMUNITY ID FO UPL
 TRANSECT ID
 PLOT ID

Do Normal Circumstances Exist On The Site? ☐ Yes ☐ No
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) ☐ Yes ☐ No
 Is The Area A Potential Problem Area? (Explain in Remarks) ☐ Yes ☐ No

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acet. saccharum</u>	<u>T</u>	<u>FACU</u>	9.		
2. <u>Acet. rubrum</u>	<u>T</u>	<u>FAC</u>	10.		
3. <u>Acet. rubrum</u>	<u>T</u>	<u>FACU</u>	11.		
4. <u>Ipomoea</u>	<u>H</u>	<u>FAC</u>	12.		
5. <u>Prunella</u>	<u>T</u>	<u>FACU</u>	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-) 40Hydrophytic Vegetation Present? ☐ Yes ☒ No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

PRIMARY INDICATORS:

☐ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

FIELD OBSERVATIONS

Depth of Surface Water 1/2 (inches)
 Depth of Free Water in Pit > 1/2 (inches)
 Depth to Saturated Soils > 1/2 (inches)

SECONDARY INDICATORS

☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? ☐ Yes ☒ No

Remarks:

SOILS:

Map Unit Name (Series and Phase)
Taxonomy (Subgroup):

Drainage Class:

Field Observation Confirm Mapped Type ☐ Yes ☐ No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance, Contrast)	Texture
<u>0-10</u>	<u>A</u>	<u>10YR 4/1</u>	<u>10YR 5/5</u>		<u>Loam</u>
	<u>B</u>				
	<u>C</u>				

HYDRIC SOIL INDICATORS

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils

☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
 Other (see Remarks)

Hydric Soils Present? ☒ Yes ☐ No

Remarks:

Hydrophytic Vegetation Present? ☐ Yes ☒ NoWetland Hydrology Present? ☐ Yes ☒ NoHydric Soils Present? ☒ Yes ☐ NoIs This Sampling Point a Wetland? ☐ Yes ☒ No

Remarks:

1987 USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middlebrook
 COUNTY: Green
 STATE: OH
 INVESTIGATORS: Robert Repasky
 DATE: 05/31/07

APPLICANT OWNER: F.E.
 COMMUNITY ID: PFO
 TRANSECT ID: RT 0531-10
 PLOT ID: A1

Do Normal Circumstances Exist On The Site? Yes
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes

No
No
No

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer 120 cm</u>	<u>T</u>	<u>FAC</u>	9. <u>Urtica</u>	<u>Urt</u>	<u>FAC</u>
2. <u>Oxycoccus sensibilis</u>	<u>H</u>	<u>OBL</u>	10. <u>Mitchella repens</u>		
3. <u>Torilis</u>	<u>H</u>	<u>FAC</u>	11. <u>Prunus serotina</u>		
4. <u>Cyperus Amphibolus</u>	<u>H</u>	<u>FAC</u>	12. <u></u>		
5. <u>Rhynchospora angusta</u>	<u>S</u>	<u>FAC</u>	13. <u></u>		
6. <u>Utricularia</u>	<u>S</u>	<u>FACW</u>	14. <u></u>		
7. <u>Sparganium angustifolium</u>	<u>H</u>	<u>FACW</u>	15. <u></u>		
8. <u>Utricularia</u>	<u>T</u>	<u>FACW</u>	16. <u></u>		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-): 100

Hydrophytic Vegetation Present: Yes No

Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

Stream, Lake, or Tide Group
Aerial Photographs
Other
None Available

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
 Depth of Free Water in Pit: 218 (inches)
 Depth to Saturated Soils: 10 (inches)

PRIMARY INDICATORS:

Inundated
X Saturated in the Upper 12 inches
Water Marks
Drift Lines
X Sediment Deposits
Drainage Patterns in Wetlands

SECONDARY INDICATORS:

Oxidized Root Channels in Upper 12 inches
X Water Stained Leaves
Local Soil Survey Data
FAC-Neutral Test
Other (Explain in Remarks)

Wetland Hydrology Present? Yes No

Remarks:

SOILS:

Map Unit Name (Series and Phase)

Taxonomy (Subgroup):

Drainage Class:

Field Observation Confirm Mapped Type: Yes No

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-10</u>	<u>A</u>	<u>10YR 4/1</u>	<u>10YR 5/5</u>		
	<u>B</u>				
	<u>C</u>				

HYDRIC SOIL INDICATORS:

Histosol Reducing Conditions Listed on Local Hydric Soils List
Histic Epipedon X Gleyed / Low-Chroma Soils Listed on National Hydric Soils List
Sulfidic Odor Concretions Other (see Remarks)
Aquic Moisture Regime Organic Streaking in Sandy Soils

Hydric Soils Present? Yes No

Remarks:

Hydrophytic Vegetation Present? Yes No

Wetland Hydrology Present? Yes No

Hydric Soils Present? Yes No

Is This Sampling Point a Wetland? Yes No

Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

USEF USACE MANUAL ROUTINE WETLANDS DETERMINATION DATA FORM

PROJECT SITE: Middlefield
 COUNTY: Geary
 STATE: CA
 INVESTIGATORS: Robert Repasky
 DATE: 5/30/07

APPLICANT OWNER: Fishery
 COMMUNITY ID: FO - PL
 TRANSECT ID: RT - 0531 - 10 UPL
 PLOT ID:

Do Normal Circumstances Exist On The Site? Yes ☐ No ☐
 Is The Site Significantly and Recently Disturbed? (Atypical Situation) Yes ☐ No ☐
 Is The Area A Potential Problem Area? (Explain in Remarks) Yes ☐ No ☐

VEGETATION:

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acacia salicaria</u>	<u>T</u>	<u>FACU</u>	9.		
2. <u>Alnus rubra</u>	<u>T</u>	<u>FAC</u>	10.		
3. <u>Quercus rubra</u>	<u>T</u>	<u>FACU</u>	11.		
4. <u>Toxicaria arbutifolia</u>	<u>H</u>	<u>FAC</u>	12.		
5. <u>Antirrhinum repens</u>	<u>H</u>	<u>FACU</u>	13.		
6. <u>Prunus serotina</u>	<u>T</u>	<u>FACU</u>	14.		
7.			15.		
8.			16.		

Percent of Dominant Species That Are OBL, FACW, or FAC (Excluding FAC-): 33
 Hydrophytic Vegetation Present: Yes ☐ No ☒
 Remarks:

HYDROLOGY:

RECORDED DATA (Describe in Remarks)

☐ Stream, Lake, or Tide Group
☐ Aerial Photographs
☐ Other
☐ None Available

FIELD OBSERVATIONS:

Depth of Surface Water: NA (inches)
 Depth of Free Water in Pit: > 18 (inches)
 Depth to Saturated Soils: > 18 (inches)

PRIMARY INDICATORS:

☐ Inundated
☐ Saturated in the Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns in Wetlands

SECONDARY INDICATORS:

☐ Oxidized Root Channels in Upper 12 inches
☐ Water Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (Explain in Remarks)

Wetland Hydrology Present? Yes ☐ No ☒
 Remarks:

SOILS:

Map Unit Name (Series and Phase)
 Taxonomy (Subgroup):

Drainage Class:
 Field Observation Confirm Mapped Type Yes ☐ No ☐

PROFILE DESCRIPTION:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle (Abundance / Contrast)	Texture
<u>0-10</u>	<u>A</u>	<u>10YR 4/1</u>	<u>10YR 5/5</u>		
	<u>B</u>				
	<u>C</u>				

HYDRIC SOIL INDICATORS:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquic Moisture Regime
☐ Reducing Conditions
☒ Gleyed/ Low-Chroma Soils
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (see Remarks)

Hydric Soils Present? Yes ☒ No ☐
 Remarks:

Hydrophytic Vegetation Present? Yes ☐ No ☒
 Wetland Hydrology Present? Yes ☐ No ☒
 Hydric Soils Present? Yes ☐ No ☒
 Is This Sampling Point a Wetland? Yes ☐ No ☒
 Remarks:

PROJECT:		CLIENT:	
TECHNICIAN:		WATER TABLE:	
LOCATION:		DATE:	COMPLETION DEPTH:
TYPE OF TEST:		TEST NUMBER:	
ELEV	DESCRIPTION	DEPTH (FT or IN)	REMARKS
		1	
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	

Dr-W088

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Geauga Co.</u> Applicant/Owner: <u>FirstEnergy</u> Investigator: <u>jek bp</u>	Date: <u>5/11/2007</u> County: <u>Geauga</u> State: <u>OH</u>
Do Normal Circumstances exist on the site? Yes <u>No</u> Is the site significantly disturbed (Atypical Situation)? Yes <u>No</u> Is the area a potential Problem Area? Yes <u>No</u> (If needed, explain on reverse.)	Community ID: <u>pea</u> Transect ID: _____ Plot ID: <u>ik 0511-2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Onoclea sensibilis</u>	<u>S</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Juncus effusus</u>	<u>H</u>	<u>FACW+</u>	10. _____	_____	_____
3. <u>Carex spp.</u>	<u>H</u>	<u>FACW+</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>T</u>	<u>FAC-</u>	12. _____	_____	_____
5. <u>Viburnum dentatum</u>	<u>S</u>	<u>FACW+</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: _____

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other <u>X</u> No Recorded Data Available Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated <u>X</u> Saturated in Upper 12 inches <u>X</u> Water Marks <u>X</u> Drift Lines <u>X</u> Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <u>X</u> Oxidized Root Channels in Upper 12 inches <u>X</u> Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____ Field Observations Confirm Mapped Type? Yes No			
Taxonomy (Subgroup): _____					
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	a	5y 5/2	10yr 3/6		
6-14	b	5y 7/1	2.5y 6/8	many	

Hydric Soil Indicators:

☐ 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 (Explain in Remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle) Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks: old channel in maple planted maple stand	

Approved by HQUSACE 3/92

Dr - W079

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Genuga Co.</u> Applicant/Owner: <u>FirstEnergy</u> Investigator: <u>jgk bp</u>	Date: <u>5/11/2007</u> County: <u>Georgia</u> State: <u>OH</u>
Do Normal Circumstances exist on the site? Yes <u>No</u> Is the site significantly disturbed (Atypical Situation)? Yes <u>No</u> Is the area a potential Problem Area? Yes <u>No</u> (If needed, explain on reverse.)	Community ID: <u>pon</u> Transect ID: _____ Plot ID: <u>ik 05113</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stipata</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Glyceria spp.</u>	<u>H</u>	<u>FACW+</u>	10. _____	_____	_____
3. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW+</u>	11. _____	_____	_____
4. <u>Rosa multiflora</u>	<u>S</u>	<u>FACU+</u>	12. _____	_____	_____
5. <u>Lindera benzoin</u>	<u>S</u>	<u>FACW+</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: _____

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other <u>X</u> No Recorded Data Available Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: <u>surface</u> (in.) Depth to Saturated Soil: <u>surface</u> (in.)	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated <u>X</u> Saturated in Upper 12 Inches <u>X</u> Water Marks <u>X</u> Drift Lines <u>X</u> Sediment Deposits <u>X</u> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <u>X</u> Oxidized Root Channels in Upper 12 Inches <u>X</u> Water-Stained Leaves ___ Local Soil Survey Data <u>X</u> FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____	
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No	

Profile Description: Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	a/b	5y4/2	2.5y6/2	common	silty clay

Hydric Soil Indicators:

☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☐ Gleyed or Low-Chrome 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 (Explain in Remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <u>Yes</u> No (Circle) Wetland Hydrology Present? <u>Yes</u> No Hydric Soils Present? <u>Yes</u> No	(Circle) Is this Sampling Point Within a Wetland? <u>Yes</u> No
Remarks:	

Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>Geauga Co.</u> Applicant/Owner: <u>FirstEnergy</u> Investigator: <u>jek bp</u>	Date: <u>5/11/2007</u> County: <u>Geauga</u> State: <u>OH</u>
Do Normal Circumstances exist on the site? Yes <u>No</u> Is the site significantly disturbed (Atypical Situation)? Yes <u>No</u> Is the area a potential Problem Area? Yes <u>No</u> (If needed, explain on reverse.)	Community ID: <u>pem</u> Transect ID: _____ Plot ID: <u>ik 05114</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Onoclea sensibilis</u>	<u>S</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Viburnum dentatum</u>	<u>S</u>	<u>FACW+</u>	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: _____

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other <u>X</u> No Recorded Data Available Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>surface</u> (in.) Depth to Saturated Soil: <u>surface</u> (in.)	Wetland Hydrology Indicators: Primary Indicators: <u>X</u> Inundated <u>X</u> Saturated in Upper 12 Inches <u>X</u> Water Marks ___ Drift Lines <u>X</u> Sediment Deposits <u>X</u> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <u>X</u> Oxidized Root Channels in Upper 12 Inches <u>X</u> Water-Stained Leaves ___ Local Soil Survey Data <u>X</u> FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			

Profile Description: Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	a	10yr 3/4			
4-12	b	2.5y 4/2	10yr 5/6		

Hydric Soil Indicators:

☐ 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 (Explain in Remarks)
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Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <u>Yes</u> No (Circle) Wetland Hydrology Present? <u>Yes</u> No Hydric Soils Present? <u>Yes</u> No	(Circle) Is this Sampling Point Within a Wetland? <u>Yes</u> No
Remarks:	

Approved by HQUSACE 3/82

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138 kv</u> Applicant/Owner: _____ Investigator: <u>Kooser / Thoniger</u>	Date: <u>24 May 07</u> County: <u>Oregon</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☐ No Is the area a potential Problem Area? ☐ Yes ☐ No (If needed, explain on reverse.)	Community ID: <u>PEH</u> Transect ID: _____ Plot ID: <u>JK-0524-4</u>

VEGETATION

pic 30

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stipata</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Rosa multiflora</u>	<u>S</u>	<u>FACU</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Oxoclea sensibilis</u>	<u>H</u>	<u>FACW</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 83%

Remarks: In a small clearcut area that is growing up.

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 Inches ☒ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ___ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>42</u> (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	Remarks: _____

Map Unit Name
(Series and Phase): _____

Field Observations

Confirm Mapped Type?	Yes	No
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Profile Description:

Q-4 A/B 10YR 4/1 10YR 6/5 many/distinct sandy loam

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☒ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors

☐ Concretions
☐ High Organic Content in Surface Layer Sandy Soils
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (Explain in Remarks)

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle)
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No

(Circle)

Is this Sampling Point Within a Wetland? YES No

Remarks: PEM

pic 30

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138 kv</u>		Date: <u>24 May 07</u>
Applicant/Owner: _____		County: <u>Greene</u>
Investigator: <u>Kooser / Thomayer</u>		State: <u>OH</u>
Do Normal Circumstances Exist on the site?	☒ Yes ☐ No	Community ID: <u>upland</u>
Is the site significantly disturbed (Atypical Situation)?	Yes ☒ No	Transect ID: _____
Is the area a potential Problem Area?	Yes ☐ No	Plot ID: <u>JK-0524-upl-4</u>
(If needed, explain on reverse.)		

VEGETATION

pic 22

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer saccharum</u>	<u>T</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Rosa multiflora</u>	<u>S</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Toxicodendron radicans</u>	<u>H</u>	<u>FACU</u>	11. _____	_____	_____
4. <u>Fraxinus americana</u>	<u>T</u>	<u>FACU</u>	12. _____	_____	_____
5. <u>Oxalis sensibilis</u>	<u>H</u>	<u>FACU</u>	13. _____	_____	_____
6. <u>Rubus allegheniensis</u>	<u>S</u>	<u>FACU</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-):			<u>17%</u>		
Remarks: _____					

HYDROLOGY

☐ Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ☐ Inundated ☐ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☐ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	
Remarks: <u>No evidence of hydrology</u>	

SOILS

Map Unit Name (Series and Phase): _____			Drainage Class: _____		
Taxonomy (Subgroup): _____			Field Observations Confirm Mapped Type? Yes No		
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 3/3	—	—	—
4-14	B	10YR 5/3	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
Hydric Soil Indicators:					
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☐ Gleyed or Low-Chroma Colors			☐ Concretions ☐ High Organic Content in Surface Layer Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other (Explain in Remarks)		
Remarks: 					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes ☒ No (Circle) Wetland Hydrology Present? Yes ☒ No (Circle) Hydric Soils Present? Yes ☒ No (Circle)	Is this Sampling Point Within a Wetland? Yes No
Remarks: upland point pic 22	

Pr-w092

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138kv</u>		Date: <u>24 May 07</u>
Applicant/Owner: _____		County: <u>Columbiana</u>
Investigator: <u>Kooser / Thomayer</u>		State: <u>OH</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No Is the area a potential Problem Area? ☒ Yes ☐ No (If needed, explain on reverse.)		Community ID: <u>PFL</u> Transect ID: _____ Plot ID: <u>JK-0524-6</u>

VEGETATION

pic 33-34

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Pinus strobus</u>	<u>T</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Fagus grandifolia</u>	<u>T</u>	<u>FACU</u>	11. _____	_____	_____
4. <u>Liriodendron tulipifera</u>	<u>T</u>	<u>FACU</u>	12. _____	_____	_____
5. <u>Oxoclea sensibilis</u>	<u>H</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Rosa multiflora</u>	<u>S</u>	<u>FACU</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-):			<u>33%</u>		
Remarks: _____					

HYDROLOGY

☐ Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 Inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____	
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No	

Profile Description:		Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
Depth (inches)	Horizon				
0-4	A	10YR 4/1	10YR 3/6	few/distinct	silty clay
4-8	B	2.5Y 6/1	10YR 3/3	common/distinct	silty clay

Hydric Soil Indicators:

☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors	☐ Concretions ☐ High Organic Content in Surface Layer Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other (Explain in Remarks)
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Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <u>Yes</u> No (Circle) Wetland Hydrology Present? <u>Yes</u> No Hydric Soils Present? <u>Yes</u> No	Is this Sampling Point Within a Wetland? <u>Yes</u> No
---	--

Remarks: *Dried up vernal pool 12 meters from large vernal pool (JK-0524-5)*

pic 33-34

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138 kv</u> Applicant/Owner: _____ Investigator: <u>KDOSE/Thomayer</u>	Date: <u>24 May 07</u> County: <u>Greene</u> State: <u>OH</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☐ No Is the area a potential Problem Area? ☐ Yes ☐ No (If needed, explain on reverse.)	Community ID: <u>Vernal Pool</u> Transect ID: _____ Plot ID: <u>Jk-0524-5</u>

PEM/POW

VEGETATION

pic 31-32

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Fagus grandifolia</u>	<u>T</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Pedophyllum peltatum</u>	<u>HT</u>	<u>FACU</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 33%

Remarks: Vegetation is mostly upland, because wetland is a vernal pool

HYDROLOGY

Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ☒ Inundated ☐ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☐ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>< 6</u> (in.) Depth to Free Water in Pit: <u>< 6</u> (in.) Depth to Saturated Soil: <u>< 10</u> (in.)	
Remarks: _____	

**Map Unit Name
(Series and Phase):**

Taxonomy (Subgroup):

Drainage Class:

Field Observations

Confirm Mapped Type?	Yes	No
1. Entity	☐	☒
2. Association	☐	☒
3. Collection	☐	☒
4. Field	☐	☒
5. Method	☐	☒
6. Property	☐	☒
7. Relationship	☐	☒
8. Table	☐	☒
9. View	☐	☒
10. Other	☐	☒

Profile Description:

Depth
(inches)

Horizon

Matrix Color
(Munsell Moist)

**Mottle Colors
(Munsell Moist)**

Mottle
Abundance/Contrast

Texture, Concretions,
Structure, etc.

0-3 A G1 3/4

107 3/6

few/discrete

clay form

3-12

47 5/11

104

den last

Hydric Soil Indicators:

- ___ Histosol
- ___ Histic Epipedon
- ___ Sulfidic Odor
- ___ Aquic Moisture Regime
- ☒ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors

☐ Concretions
☐ High Organic Content in Surface Layer Sandy Soils
☐ Organic Streaking in Sandy Soils
☐ Listed on Local Hydric Soils List
☐ Listed on National Hydric Soils List
☐ Other (Explain in Remarks)

Remarks:

Hydrophytic Vegetation Present? Yes ~~No~~ (Circle)
Wetland Hydrology Present? ~~Yes~~ No
Hydric Soils Present? ~~Yes~~ No

(Circle)

Is this Sampling Point Within a Wetland? Yes No

Remarks: Large vernal pool in upland woodlot.

PIC 31-32

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138 kv</u>		Date: <u>24 May 07</u>
Applicant/Owner: _____		County: <u>Crawford</u>
Investigator: <u>Krooser / Ottomayer</u>		State: <u>OH</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☐ No (If needed, explain on reverse.)		Community ID: <u>PF0/PEM</u> Transect ID: _____ Plot ID: <u>JK-0524-2</u>

VEGETATION

pics 15-18

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Oenothera sensibilis</u>	<u>H</u>	<u>FACW</u>	9. <u>Rosa multi.flora</u>	<u>H</u>	<u>FACU</u>
2. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW</u>	10. <u>Iris versicolor</u>	<u>H</u>	<u>OBL</u>
3. <u>Phalaris arundinacea</u>	<u>H</u>	<u>FACW+</u>	11. <u>Viburnum dentatum</u>	<u>S</u>	<u>FAC</u>
4. <u>Carex vulpinoidea</u>	<u>H</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Carex rostrata</u>	<u>H</u>	<u>OBL</u>	13. _____	_____	_____
6. <u>Carex gynandra</u>	<u>H</u>	<u>OBL</u>	14. _____	_____	_____
7. <u>Leersia virginica</u>	<u>H</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Juncus effusus</u>	<u>H</u>	<u>FACW+</u>	16. _____	_____	_____
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC+).			<u>91%</u>		
Remarks: _____					

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ___ ☒ Inundated ___ ☒ Saturated in Upper 12 Inches ___ ☒ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12" ___ ☒ Water-Stained Leaves ___ Local Soil Survey Data ___ ☒ FAC-Neutral Test ___ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>42</u> (in.) Depth to Free Water in Pit: <u>43</u> (in.) Depth to Saturated Soil: <u>10</u> (in.)	Remarks: <u>Portions of wetland have standing water. Wetland also has JK-QHEI-1 flowing through it.</u>

Pr-w0941
uPL

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>First Energy Middlefield 138 kv</u>		Date: <u>24 May 07</u>
Applicant/Owner: _____		County: <u>Geauga</u>
Investigator: <u>Kooser / Thomayer</u>		State: <u>OH</u>
Do Normal Circumstances Exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☒ Yes ☐ No (If needed, explain on reverse.)		Community ID: _____ Transect ID: _____ Plot ID: <u>JK-0524 upl-2</u>

VEGETATION

pls 7-8

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Anthoxanthum odoratum</u>	<u>H</u>	<u>FACU</u>	9. <u>Asclepias syriaca</u>	<u>H</u>	<u>FACU</u>
2. <u>Tritolium repens</u>	<u>H</u>	<u>FACU</u>	10. <u>Ranunculus acris</u>	<u>H</u>	<u>FAC+</u>
3. <u>Cyperus strigosus</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Carex vulpinoidea</u>	<u>H</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Plantago major</u>	<u>H</u>	<u>FACU</u>	13. _____	_____	_____
6. <u>Poa pratensis</u>	<u>H</u>	<u>FACU</u>	14. _____	_____	_____
7. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Festuca rubra</u>	<u>H</u>	<u>FACU</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC+): 40%

Remarks: open field with pond inflow.

HYDROLOGY

☐ Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: ☐ Inundated ☐ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☐ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.)	Remarks: <u>No evidence or presence of hydrology. Channel is in flow to pond.</u>

SOILS

Map Unit Name (Series and Phase): _____			Drainage Class: _____		
Taxonomy (Subgroup): _____			Field Observations Confirm Mapped Type? Yes No		
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2	A	2.5Y 3/1	10YR 4/6	Few/faint	silty loam
2-14	B	G1 5/N	10YR 4/6	Many/distinct	clay loam

Hydric Soil Indicators:

☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☐ Reducing Conditions ☒ Gleyed or Low-Chroma Colors	☐ Concretions ☐ High Organic Content in Surface Layer Sandy Soils ☐ Organic Streaking in Sandy Soils ☐ Listed on Local Hydric Soils List ☐ Listed on National Hydric Soils List ☐ Other (Explain in Remarks)
--	---

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes ☒ No (Circle) Wetland Hydrology Present? Yes ☒ No (Circle) Hydric Soils Present? Yes ☒ No (Circle)	Is this Sampling Point Within a Wetland? Yes ☒ No (Circle)
Remarks: upland point - with a created channel pics 7-8	

Wetland 240
PR-W095

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Middlefield</u> Applicant/Owner: <u>First Energy</u> Investigator: <u>MLB</u>	Date: <u>5/10/07</u> County: <u>Sevier</u> State: <u>UT</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Community ID: <u>PEM</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Juncus effusus</u>	<u>Herb</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Scirpus cypripus</u>	<u>Herb</u>	<u>FACW</u>	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

☐ Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gauge ☐ Aerial Photographs ☐ Other _____ ☐ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>8</u> (in.) Depth to Saturated Soil: <u>4</u> (in.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 Inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☐ Oxidized Root Channels in Upper 12 Inches ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other (Explain in Remarks) _____
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-4	A	10YR 5/1	10YR 5/7	10%	silty clay
4-12	B	10YR 6/1	10YR 5/7	10%	silty clay

Hydric Soil Indicators:	
☐ 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 (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No (Circle) Wetland Hydrology Present? ☒ Yes ☐ No Hydric Soils Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No (Circle)
Remarks:	

Approved by HQUSACE 3/82

Upland data sheet for
wetland 240
Pr-W095 UPL

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>Middle field</u> Applicant/Owner: <u>First Energy</u> Investigator: <u>MLB</u>	Date: <u>5/10/07</u> County: <u>Seauga</u> State: <u>OH</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No Is the site significantly disturbed (Atypical Situation)? ☐ Yes ☒ No Is the area a potential Problem Area? ☐ Yes ☒ No (If needed, explain on reverse.)	Community ID: <u>Young Forest</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carya ovata</u>	<u>Tree</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Prunus serotina</u>	<u>Tree</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Solidago canadensis</u>	<u>Herb</u>	<u>FACU</u>	11. _____	_____	_____
4. <u>Rubus sp</u>	<u>Herb</u>	<u>—</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: _____

HYDROLOGY

Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>none</u> (in.) Depth to Free Water in Pit: <u>none</u> (in.) Depth to Saturated Soil: <u>none</u> (in.)	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ___ Oxidized Root Channels in Upper 12 Inches ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks: _____	

Map Unit Name (Series and Phase): _____		Drainage Class: _____ Field Observations	
Taxonomy (Subgroup): _____		Confirm Mapped Type? Yes No	

Profile Description:					
Depth (inches):	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-6	A	10YR4/3 rock	—	—	clay loam

Hydric Soil Indicators:	
☐ 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 (Explain in Remarks)

Remarks:

Hydrophytic Vegetation Present?	Yes <u>No</u> (Circle)	Is this Sampling Point Within a Wetland?	Yes <u>No</u>
Wetland Hydrology Present?	Yes <u>No</u>		
Hydric Soils Present?	Yes <u>No</u>		
Remarks:			

Approved by HQUSACE 3/92

Wetland 239b

Pr-w096

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Determination Manual)

Project / Site: <u>Middlefield</u> Applicant / Owner: <u>First Energy</u> Investigator: <u>ML L.B.</u>	Date: <u>5/10/07</u> County: <u>Geauga</u> State: <u>OH</u>
Do normal circumstances exist on the site? Yes <u>X</u> No <u> </u> Is the site significantly disturbed (Atypical situation)? Yes <u> </u> No <u>X</u> Is the area a potential problem area? Yes <u> </u> No <u>X</u> (explain on reverse if needed)	Community ID: <u>PEmpss</u> Transect ID: <u> </u> Plot ID: <u> </u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Salix sp</u>	<u>shrub</u>	<u>—</u>	9. <u> </u>	<u> </u>	<u> </u>
2. <u>Cornus amomum</u>	<u>shrub</u>	<u>FACW</u>	10. <u> </u>	<u> </u>	<u> </u>
3. <u>Impatiens capensis</u>	<u>Herb</u>	<u>FACW</u>	11. <u> </u>	<u> </u>	<u> </u>
4. <u>Onoclea sensibilis</u>	<u>Herb</u>	<u>FACW</u>	12. <u> </u>	<u> </u>	<u> </u>
5. <u>Urtica fern</u>	<u>Herb</u>	<u>—</u>	13. <u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	14. <u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	15. <u> </u>	<u> </u>	<u> </u>
8. <u> </u>	<u> </u>	<u> </u>	16. <u> </u>	<u> </u>	<u> </u>

Percent of Dominant Species that are OBL, FACW, or FAC excluding FAC-). 100%

Remarks:

HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake, or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available Field Observations: Depth of Surface Water: <u>None</u> (in.) Depth to Free Water in Plt: <u>8</u> (in.) Depth to Saturated Soil: <u>1</u> (in.)	Wetland Hydrology Indicators Primary Indicators: ___ Inundated <u>X</u> Saturated in Upper 12" ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators: ___ Oxidized Roots Channels in Upper 12" <u>X</u> Water-Stained Leaves ___ Local Soil Survey Data <u>X</u> FAC-Neutral Test ___ Other (Explain in Remarks)
Remarks:	

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____

Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes ___ No ___

Profile Description:

Depth (inches)	Horizon	Matrix Colors (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1-12	A	10YR 3/1	—	—	Silt loam
12+	B	10YR 5/1	—	—	Silt Clay

Hydric Soil Indicators:

- | | |
|---|---|
| ☐ Histosol | ☐ Concretions |
| ☐ Histic Epipedon | ☐ High Organic Content in Surface Layer in Sandy Soils |
| ☐ Sulfidic Odor | ☐ 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 (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes ☒ No ☐	Is the Sampling Point	
Wetland Hydrology Present?	Yes ☒ No ☐	Within a Wetland?	Yes ___ No ___
Hydric Soils Present?	Yes ☒ No ☐		

Remarks: