

















Wetland Function-Value Evaluation Form

Wetland I.D.	040517_GM_1001_PFO			
Latitude	40.80483936			
Longitude	-75.4732125			
Prepared by	G. McBrien, E. Genuardi			
Date	20170405			
Wetland Impact Type	see impact table *			
Wetland Impact Area	see impact table *			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.09 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"			
Adjacent land use	transmission row, forest, open land			
Distance to nearest roadway or other development	25 feet			
Dominant wetland systems present	PFO			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)				
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?				
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		15	
 Floodflow Alteration	Yes		5, 9	
 Fish and Shellfish Habitat	Yes		1	
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	Yes		2	
Sediment/Shoreline Stabilization	Yes		5	
 Wildlife Habitat	Yes		5, 16	frog eggs observed
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	040617_GM_1001_PEM and PFO			
Latitude	40.80427135			
Longitude	-75.47312443			
Prepared by	E. Genuardi, G. McBrien			
Date	4/6/2017			
Wetland Impact Type	see impact table *			
Wetland Impact Area	see impact table *			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.08 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	opeN; transmission ROW; forested			
Distance to nearest roadway or other development	5 ft			
Dominant wetland systems present	PFO and PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)	see data forms			
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		5, 10, 13, 15	
 Floodflow Alteration	Yes		2, 5, 7, 9, 13, 15	
 Fish and Shellfish Habitat	Yes		1, 2	
Sediment/Toxicant Retention	Yes		3, 5, 10, 13	
Nutrient Removal	Yes		3, 9, 10, 11, 14	
 Production Export	Yes		2, 10	
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes		5	
Recreation	Yes		4	
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	052918 WA 004 PFO			
Latitude	40.803746			
Longitude	-75.473691			
Prepared by	W. Anderson, B. Cooper			
Date	5/29/2018			
Wetland Impact Type	See Impact Table [‡]			
Wetland Impact Area	See Impact Table [‡]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.43 acres			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Agricultural, Utility ROW			
Distance to nearest roadway or other development	30'			
Dominant wetland systems present	PFO			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	7, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	No	4, 5, 7, 9	
Nutrient Removal	Yes	No	1, 7, 10, 11	
 Production Export	Yes	No	1, 2, 4, 5	
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	Yes	1, 5, 6, 7, 8, 10, 15	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form

Wetland I.D.	052918 WA 005 PEM			
Latitude	40.802997			
Longitude	-75.473003			
Prepared by	W. Anderson, B. Cooper			
Date	5/29/2018			
Wetland Impact Type	See Impact Table *			
Wetland Impact Area	See Impact Table *			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.01 acres			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Agricultural, Utility ROW			
Distance to nearest roadway or other development	10'			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)	No			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No		
 Floodflow Alteration	No	No		
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	No	No		
Nutrient Removal	No	No		
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	Yes	Yes	4, 5, 20	
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				
*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.				









Wetland Function-Value Evaluation Form

Wetland I.D.	052918 WA 003 PEM/PFO			
Latitude	40.803346			
Longitude	-75.47369			
Prepared by	W. Anderson, B. Cooper			
Date	5/29/2018			
Wetland Impact Type	See Impact Table [‡]			
Wetland Impact Area	See Impact Table [‡]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.9			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Agricultural, Utility ROW			
Distance to nearest roadway or other development	0'			
Dominant wetland systems present	PEM/PFO			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	7, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	No	4, 5, 7, 9	
Nutrient Removal	Yes	No	1, 7, 10, 11	
 Production Export	Yes	No	1, 2, 4, 5	
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	Yes	1, 5, 6, 7, 8, 10, 15	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

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* Aquatic Resources Impact Table is Provided in JPA Section A-1









Wetland Function-Value Evaluation Form

Wetland I.D.	052918 WA 007 PUB			
Latitude	40.802438			
Longitude	-75.473372			
Prepared by	W. Anderson, B. Cooper			
Date	5/29/2018			
Wetland Impact Type	See Impact Table [‡]			
Wetland Impact Area	See Impact Table [‡]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.06			
Human Made? (select)	Yes			
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"			
Adjacent land use	Agricultural			
Distance to nearest roadway or other development	0'			
Dominant wetland systems present	PUB			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	No			
 Floodflow Alteration	Yes	Yes	5, 6, 7, 8, 15	
 Fish and Shellfish Habitat	Yes	No	9, 10, 12	
Sediment/Toxicant Retention	Yes	No	3, 4, 5	
Nutrient Removal	Yes	No	2, 3, 5, 7	
 Production Export	Yes	No	6	
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

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* Aquatic Resources Impact Table is Provided in JPA Section A-1









Wetland Function-Value Evaluation Form

Wetland I.D.	052918 WA 008 PUB			
Latitude	40.802184			
Longitude	-75.4733			
Prepared by	W. Anderson, B. Cooper			
Date	5/29/2018			
Wetland Impact Type	See Impact Table [‡]			
Wetland Impact Area	See Impact Table [‡]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.12			
Human Made? (select)	Yes			
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"			
Adjacent land use	Agricultural			
Distance to nearest roadway or other development	0'			
Dominant wetland systems present	PUB			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	No			
 Floodflow Alteration	Yes	Yes	5, 6, 7, 8, 15	
 Fish and Shellfish Habitat	Yes	No	9, 10, 12	
Sediment/Toxicant Retention	Yes	No	3, 4, 5	
Nutrient Removal	Yes	No	2, 3, 5, 7	
 Production Export	Yes	No	6	
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

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* Aquatic Resources Impact Table is Provided in JPA Section A-1









Wetland Function-Value Evaluation Form

Wetland I.D.	080917_WA_003			
Latitude	40.800817			
Longitude	-75.474036			
Prepared by	W. Anderson, N. Jones			
Date	8/9/2017			
Wetland Impact Type	See Impact Table [‡]			
Wetland Impact Area	See Impact Table [‡]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.03			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Residential, forest			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	No	5, 7	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

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* Aquatic Resources Impact Table is Provided in JPA Section A-1









Wetland Function-Value Evaluation Form

Wetland I.D.	080917_WA_002			
Latitude	40.799874			
Longitude	-75.474065			
Prepared by	W. Anderson, N. Jones			
Date	8/9/2017			
Wetland Impact Type	See Impact Table [‡]			
Wetland Impact Area	See Impact Table [‡]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.89			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Residential, Power line, Forested			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM/PSS			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	7, 9, 10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	No	4, 7, 10	
Nutrient Removal	Yes	No	3, 7	
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1









Wetland Function-Value Evaluation Form

Wetland I.D.	110217 WA 005 PFO			
Latitude	40.79799962			
Longitude	-75.4756176			
Prepared by	W. Anderson, M. Taranowski			
Date	11/2/2017			
Wetland Impact Type	See Impact Table [§]			
Wetland Impact Area	See Impact Table [§]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	1.16 acres			
Human Made? (select)	Yes			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Residential, Powerline ROW, Agriculture			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PFO			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	2, 7, 8, 10, 13, 15	
 Floodflow Alteration	No	No		
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	Yes	3, 4, 5, 7, 9, 10, 13, 14, 15	
Nutrient Removal	Yes	Yes	3, 5, 6, 7, 11, 12, 14	
 Production Export	Yes	No	1, 2, 4, 10	
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	Yes	No	6, 7, 8, 15	
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other	No	No		

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* Aquatic Resources Impact Table is Provided in JPA Section A-1









Wetland Function-Value Evaluation Form

Wetland I.D.	110217 WA 006 PEM			
Latitude	40.79795442			
Longitude	-75.47495363			
Prepared by	W. Anderson, M. Taranowski			
Date	11/2/2017			
Wetland Impact Type	See Impact Table [§]			
Wetland Impact Area	See Impact Table [§]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.3			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Powerline ROW, Forest, Agriculture			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	No	No		
 Floodflow Alteration	No	No		
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	4, 5, 9	
Nutrient Removal	Yes	No	3, 5, 7, 9	
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	No	No		
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other	No	No		

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* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form

Wetland I.D.	110217 WA 008 PEM			
Latitude	40.79565417			
Longitude	-75.47644123			
Prepared by	W. Anderson, M. Tarnowski			
Date	11/2/2018			
Wetland Impact Type	See Impact Table			*
Wetland Impact Area	See Impact Table			*
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.09 acres			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Agriculture, Powerline ROW, Roadway			
Distance to nearest roadway or other development	35 feet			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)	No			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	15	
 Floodflow Alteration	No	No	6, 9	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	1	
Nutrient Removal	Yes	Yes	3, 5, 9	
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	No	No		
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	080917_WA_001			
Latitude	40.792332			
Longitude	-75.475864			
Prepared by	W. Anderson			
Date	8/9/2017			
Wetland Impact Type	See Impact Table [‡]			
Wetland Impact Area	See Impact Table [‡]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.94			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Agricultural, forest			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	7, 9, 10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	No	4, 7, 10	
Nutrient Removal	Yes	No	3, 7	
 Production Export	No			
Sediment/Shoreline Stabilization	Yes	No	6, 7	
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	Yes	No	2	Potential bog turtle habitat observed
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form

Wetland I.D.	050217_MAB_1002_PEM			
Latitude	40.792018			
Longitude	-75.476341			
Prepared by	M. Benfer, J. Dancho			
Date	5/2/2017			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.05 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest/Ag/Roadway			
Distance to nearest roadway or other development	10'			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2	
 Floodflow Alteration	Yes	Yes	3, 5, 6, 8, 9, 10, 12	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes		1, 2, 3, 9, 10, 13	
Nutrient Removal	Yes		3, 4	
 Production Export	No			
Sediment/Shoreline Stabilization	Yes		2, 3, 4, 5	
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	050217_MAB_1004_PFO_FV			
Latitude	40.791052			
Longitude	-75.476346			
Prepared by	M. Benfer, J. Dancho			
Date	5/2/2017			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.36 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest/Ag/Roadway			
Distance to nearest roadway or other development	175'			
Dominant wetland systems present	PFO			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2, 7	
 Floodflow Alteration	Yes	Yes	3, 5, 6, 7, 8, 9, 10, 13	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	Yes	1, 2, 3, 5, 7, 9, 10, 13	
Nutrient Removal	Yes		3, 4, 9, 14	
 Production Export	Yes		2	
Sediment/Shoreline Stabilization	Yes		2, 3, 4, 5, 14	
 Wildlife Habitat	Yes		5, 6, 7, 11, 17, 19, 20	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	Yes		2	Potential bog turtle habitat
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	050217_MB_1001_PEM			
Latitude	40.79103			
Longitude	-75.475588			
Prepared by	M. Benfer, J. Dancho			
Date	5/2/2017			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.17 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest/Ag/Roadway			
Distance to nearest roadway or other development	10'			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2, 4, 7, 15	
 Floodflow Alteration	Yes	Yes	3, 5, 6, 7, 8, 9, 10, 13	
 Fish and Shellfish Habitat	Yes		1, 4, 8, 14, 15, 16	
Sediment/Toxicant Retention	Yes		1, 2, 3, 9, 10, 11, 16	
Nutrient Removal	Yes		3, 4, 8, 9	
 Production Export	No			
Sediment/Shoreline Stabilization	Yes	Yes	1, 2, 3, 4, 6, 9, 13, 15	
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	081815 MK 042 PEM
Complex Notes	
Latitude	40.78017168
Longitude	-75.45679839
Prepared by	G. McBrien, E. Genuardi
Date	4/28/2017 *
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.57 acres
Human Made? (select)	Yes
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"
Adjacent land use	Residential
Distance to nearest roadway or other development	Adjacent to
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
Groundwater Recharge/Discharge	Yes		2, 10	
Floodflow Alteration	No		5	
Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
Production Export	No			
Sediment/Shoreline Stabilization	No			
Wildlife Habitat	No			
Recreation	No			
Educational/Scientific Value	No			
Uniqueness/Heritage	No			
Visual Quality/Aesthetics	Yes		9	
ES Endangered Species Habitat				
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	062218 WA 001 PEM/PFO			
Latitude	40.779319			
Longitude	-75.457119			
Prepared by	WRA			
Date	6/22/2018			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	2.6 acres			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Agriculture, Residential, Forest			
Distance to nearest roadway or other development	0'			
Dominant wetland systems present	PEM/PFO			
Contiguous undeveloped buffer zone present? (select)	Yes			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	2			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	7, 10, 13, 15	
 Floodflow Alteration	Yes	Yes	5, 6, 7, 8, 9, 13, 18	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	Yes	2, 4, 9, 10, 13, 16	
Nutrient Removal	Yes	No	3, 4, 7, 8, 9	
 Production Export	Yes	No	1, 2, 7, 10	
Sediment/Shoreline Stabilization	Yes	No	5, 7, 12, 13, 14	
 Wildlife Habitat	Yes	Yes	4, 6, 7, 8, 13, 15	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1









Wetland Function-Value Evaluation Form

Wetland I.D.	052218 WA 002 PEM			
Latitude	40.772886			
Longitude	-75.448663			
Prepared by	W. Anderson, B. Cooper			
Date	5/22/2018			
Wetland Impact Type	See Impact Table [‡]			
Wetland Impact Area	See Impact Table [‡]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.21			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Agricultural, Residential			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	5, 8, 10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1













Wetland Function-Value Evaluation Form

Wetland I.D.	101717_AB_1001_PEM			
Latitude	40.772424			
Longitude	-75.449168			
Prepared by	A. Bronneck, E. Genuardi			
Date	10/17/2017			
Wetland Impact Type	See Impact Table [§]			
Wetland Impact Area	See Impact Table [§]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	No			
Total Area of Wetland	0.01			
Human Made? (select)	Yes			
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"			
Adjacent land use	AGRICULTURAL AND ROAD BED			
Distance to nearest roadway or other development	3 FEET			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	2			
Wildlife & vegetation diversity/abundance (see attached list)	shallow sedge; orange jewelweed; ribwort plantation			
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	No			
 Floodflow Alteration	Yes	Yes	3.5.6.7.9.13.15.	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes		1.2.3.10.12.	
Nutrient Removal	Yes		3.4.5.6.7.9.10.	
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form

Wetland I.D.	050417_GM_1003_PEM			
Latitude	40.77185			
Longitude	-75.444829			
Prepared by	N. Jones, G. McBrien			
Date	5/4/2017			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.01 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Residential, forest and agricultural			
Distance to nearest roadway or other development	20 feet			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	1, 2, 7, 5	
 Floodflow Alteration	Yes	Yes	2, 5, 7, 9	
 Fish and Shellfish Habitat	No	No		
 Sediment/Toxicant Retention	Yes	No	1, 2	
 Nutrient Removal	No	No		
 Production Export	No	No		
 Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	No	No		
 Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	050417_GM_1002_PEM			
Latitude	40.771729			
Longitude	-75.449177			
Prepared by	N. Jones, G. McBrien			
Date	5/4/2017			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.11 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Residential, forest and agricultural			
Distance to nearest roadway or other development	20 feet			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	1, 2, 5	
 Floodflow Alteration	Yes	Yes	2, 5, 9	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	1, 2	
Nutrient Removal	No	No		
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	No	No		
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	052218 WA 003 PEM			
Latitude	40.755177			
Longitude	-75.42296			
Prepared by	W. Anderson, B. Cooper			
Date	5/22/2018			
Wetland Impact Type	See Impact Table [‡]			
Wetland Impact Area	See Impact Table [‡]			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.19			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Agricultural			
Distance to nearest roadway or other development	60 ft.			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	No			
 Floodflow Alteration	Yes	Yes	5, 6, 9, 13, 16, 18	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	Yes	1, 2, 4, 9, 10, 13, 16	
Nutrient Removal	Yes	No	3, 4, 7, 8, 9	
 Production Export	No			
Sediment/Shoreline Stabilization	Yes	No	3, 4, 5, 12, 13, 15	
 Wildlife Habitat	Yes	No	1, 3, 5, 6, 7, 8, 13	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form









Wetland I.D.	090414 DB 008 PEM
Complex Notes	
Latitude	40.74746046
Longitude	-75.41353814
Prepared by	N. Jones, B. Thompson
Date	4/21/2017 *
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.09 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Mature forest and residential
Distance to nearest roadway or other development	250 feet
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	0
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	1, 2, 7, 15	
 Floodflow Alteration	Yes	No	5, 9, 13	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	1, 2, 10	
Nutrient Removal	No	No		
 Production Export	No	No		
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	Yes	No	17	
Recreation	Yes	No	3	
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other	No	No		

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	090314 DB 004 PEM
Complex Notes	
Latitude	40.73583685
Longitude	-75.39251457
Prepared by	N. Jones, B. Thompson
Date	4/20/2017 *
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.13 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Residential, road, agriculture
Distance to nearest roadway or other development	250 feet
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		1, 2, 7, 13, 15	
 Floodflow Alteration	Yes		3, 5, 7, 9, 13	
 Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	No	No	1, 2, 10	
Nutrient Removal	No	No	4	
 Production Export	No	No	1, 4	
Sediment/Shoreline Stabilization	No	No		
 Wildlife Habitat	No	No	17	
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	042815_JC_1003_PEM			
Latitude	40.716606			
Longitude	-75.334100			
Prepared by	W. Anderson, D. Brightbill			
Date	3/20/2018			
Wetland Impact Type	See Impact Table*			
Wetland Impact Area	See Impact Table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.14			
Human Made? (select)	Yes			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Agricultural, Residential, Commercial			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	No			
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	No	4, 5, 9	
Nutrient Removal	Yes	Yes	3, 6, 7, 9	
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	092614_GO_002_PFO
Complex Notes	Forms complex with 092614_GO_001_PEM
Latitude	40.62824465
Longitude	-75.27147385
Prepared by	David Brightbill
Date	8/16/2018 *
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Office
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	1.66 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Agricultural and Residential
Distance to nearest roadway or other development	160 ft
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	1
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	2, 7, 9, 13	
 Floodflow Alteration	Yes	No	2, 7, 13	
 Fish and Shellfish Habitat	No	No	1	
Sediment/Toxicant Retention	Yes	No	10,	
Nutrient Removal	Yes	No	8, 9	
 Production Export	No	No	2,	
Sediment/Shoreline Stabilization	Yes	Yes	1, 2, 6, 7	
 Wildlife Habitat	Yes	Yes	5, 6, 8, 15, 21	
Recreation	No	No		
 Educational/Scientific Value	No	No		
 Uniqueness/Heritage	No	No		
 Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	040318 WA 001 PEM/PSS			
Latitude	40.62583909			
Longitude	-75.2680698			
Prepared by	W. Anderson, B. Cooper			
Date	4/3/2018			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.68			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Agriculture, Forest			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM/PSS			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	2, 7, 10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	Yes	No	4, 7, 10	
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	No	7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form









Wetland I.D.	031918_WA_001_PSS
Latitude	40.625572°
Longitude	-75.266864°
Prepared by	WRA
Date	3/19/2018
Wetland Impact Type	See Impact Table
Wetland Impact Area	See Impact Table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.75
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Agriculture, Residential
Distance to nearest roadway or other development	200 ft.
Dominant wetland systems present	PSS
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	Yes
How many tributaries contribute to the wetland?	0
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	4, 7, 10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	Yes	No	1, 2, 6	
 Wildlife Habitat	Yes	No	7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	051415 JC 1001 PEM
Complex Notes	
Latitude	40.62456934
Longitude	-75.26539663
Prepared by	G. McBrien, E. Genuardi
Date	4/14/2017 *
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.01 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	forested, residential
Distance to nearest roadway or other development	300 feet
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2, 7, 13, 14	
 Floodflow Alteration	Yes		5, 9, 13	
 Fish and Shellfish Habitat	Yes		2, 15	
Sediment/Toxicant Retention	Yes		9, 10	
Nutrient Removal	Yes		9	
 Production Export	Yes		1	
Sediment/Shoreline Stabilization	Yes		6	
 Wildlife Habitat	Yes	Yes	7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	Yes		7	
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form









Wetland I.D.	012116 GM 1001 PFO
Complex Notes	
Latitude	40.62390091
Longitude	-75.2639749
Prepared by	E. Genuardi, G. McBrien
Date	4/14/2017 *
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.13 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	forested
Distance to nearest roadway or other development	600 feet
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2, 7, 13, 14	
 Floodflow Alteration	Yes		5, 9, 13	
 Fish and Shellfish Habitat	Yes		2, 15	
Sediment/Toxicant Retention	Yes		9, 10	
Nutrient Removal	Yes		9	
 Production Export	Yes		1	
Sediment/Shoreline Stabilization	Yes		6	
 Wildlife Habitat	Yes	Yes	7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	Yes		7	
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	042815_JC_1001_PFO
Complex Notes	
Latitude	40.62175539
Longitude	-75.26156481
Prepared by	G. McBrien, E. Genuardi
Date	4/14/2017 *
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	3.58 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	residential
Distance to nearest roadway or other development	150 feet
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	No
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2, 7, 13, 14	
 Floodflow Alteration	Yes		5, 9, 13	
 Fish and Shellfish Habitat	Yes		2, 15	
Sediment/Toxicant Retention	Yes		7, 9, 10	
Nutrient Removal	Yes		5, 9, 11	
 Production Export	Yes		1, 2, 4, 8	
Sediment/Shoreline Stabilization	Yes		2, 6, 7, 8, 12, 14	
 Wildlife Habitat	Yes	Yes	7, 8, 13, 14, 15	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	Yes		7	
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	031716 NJ 002 PEM			
Complex Notes	Forms complex with 031716 NJ 002 PSS			
Latitude	40.61899034			
Longitude	-75.25752289			
Prepared by	E. Genuardi, G. McBrien			
Date	04/14/1707 *			
Wetland Impact Type	See impact table *			
Wetland Impact Area	See impact table			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	1.75 acres			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"			
Adjacent land use	RESIDENTIAL			
Distance to nearest roadway or other development	100 feet			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)				
Is the wetland a separate hydraulic system? (select)				
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?				
Wildlife & vegetation diversity/abundance (see attached list)	WHITE TAIL DEER			
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2, 7	
 Floodflow Alteration	Yes		6, 7, 8, 10	
 Fish and Shellfish Habitat	Yes		8	
Sediment/Toxicant Retention	Yes		1, 2, 3, 10	
Nutrient Removal	Yes		3, 4, 9	
 Production Export	Yes		1, 4, 5	
Sediment/Shoreline Stabilization	Yes		1, 6, 7, 14	
 Wildlife Habitat	Yes		5, 17	
Recreation	Yes		3	
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				









*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

Wetland Function-Value Evaluation Form

Wetland I.D.	042117 GM 1003 PFO			
Latitude	40.620047			
Longitude	-75.249036			
Prepared by	E. Genuardi, G. McBrien			
Date	4/21/2017			
Wetland Impact Type	See impact table *			
Wetland Impact Area	See impact table *			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.22 acre			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	FOREST			
Distance to nearest roadway or other development	0.25 mile			
Dominant wetland systems present	PFO			
Contiguous undeveloped buffer zone present? (select)				
Is the wetland a separate hydraulic system? (select)				
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?				
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		7, 15	
 Floodflow Alteration	Yes		6, 7, 8, 9, 10, 18	
 Fish and Shellfish Habitat	Yes		1, 2, 4, 8, 14, 15, 16, 17	
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	Yes		1, 2, 5, 12	
Sediment/Shoreline Stabilization	Yes		1, 2, 12, 13, 14, 15	
 Wildlife Habitat	Yes		1, 3, 4, 5, 6, 7	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	042418 WA 008 PFO			
Latitude	40.619961			
Longitude	-75.247762			
Prepared by	W. Anderson, M. Taranowski			
Date	4/24/2018			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.27			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest			
Distance to nearest roadway or other development	350 ft.			
Dominant wetland systems present	PFO			
Contiguous undeveloped buffer zone present? (select)	Yes			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	No	4, 7, 9	
Nutrient Removal	Yes	No	3, 7, 11	
 Production Export	Yes	No	1, 2, 4	
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	Yes	1, 3, 4, 5, 6, 7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form

Wetland I.D.	042418 WA 006 PFO			
Latitude	40.620065			
Longitude	-75.245876			
Prepared by	W. Anderson, M. Taranowski			
Date	4/24/2018			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.12			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest, Residential			
Distance to nearest roadway or other development	100 ft.			
Dominant wetland systems present	PFO			
Contiguous undeveloped buffer zone present? (select)	Yes			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	7, 10, 13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	No	10, 13, 14	
Nutrient Removal	Yes	No	7, 12	
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	Yes	1, 3, 4, 5, 6, 7, 8	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form

Wetland I.D.	042518_WA_001_PSS
Latitude	40.612378
Longitude	-75.237629
Prepared by	W. Anderson, M. Taranowski
Date	4/25/2018
Wetland Impact Type	See impact table
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.09
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor
Adjacent land use	Forest, Residential
Distance to nearest roadway or other development	75 ft.
Dominant wetland systems present	PSS
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	Yes
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	0
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
Groundwater Recharge/Discharge	Yes	No	10, 13	
Floodflow Alteration	No			
Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
Production Export	Yes	No	4	
Sediment/Shoreline Stabilization	No			
Wildlife Habitat	Yes	Yes	4, 5, 8, 17	
Recreation	No			
Educational/Scientific Value	No			
Uniqueness/Heritage	No			
Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	062415_BT_1002_PEM			
Complex Notes				
Latitude	40.60709402			
Longitude	-75.22926			
Prepared by	WRA			
Date	6/7/2017			
Wetland Impact Type				
Wetland Impact Area	See impact table			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.87 acres			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Forest and agriculture			
Distance to nearest roadway or other development	10'			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
Groundwater Recharge/Discharge	Yes	Yes	2, 7, 9, 3	
Floodflow Alteration	Yes	Yes	5, 7, 9, 13	
Fish and Shellfish Habitat	No	No		
Sediment/Toxicant Retention	Yes	No	1, 2, 10	
Nutrient Removal	Yes	No	4, 9, 12	
Production Export	No	No	1, 4	
Sediment/Shoreline Stabilization	No	No		
Wildlife Habitat	No	Yes		
Recreation	No	No		
Educational/Scientific Value	No	No		
Uniqueness/Heritage	No	No		
Visual Quality/Aesthetics	No	No		
ES Endangered Species Habitat	No	No		
Other	No	No		

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	122016 LZ 1002 PEM
Complex Notes	
Latitude	40.60611754
Longitude	-75.2270205
Prepared by	G. McBrien, E. Genuardi
Date	4/18/2017 *
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.27 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"
Adjacent land use	residential, agricultural, open land
Distance to nearest roadway or other development	200 ft.
Dominant wetland systems present	PEM
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2	
 Floodflow Alteration	Yes		5	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes		9	
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.









Wetland Function-Value Evaluation Form

Wetland I.D.	042418 WA 001 PEM/PSS			
Latitude	40.605807			
Longitude	-75.226757			
Prepared by	W. Anderson, M. Taranowski			
Date	4/24/2018			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.94			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Agriculture, Residential, Fallow field			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM/PSS			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	No	7, 9	
Nutrient Removal	Yes	Yes	3, 7, 9	
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes	Yes	7, 8, 17	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.

* Aquatic Resources Impact Table is Provided in JPA Section A-1









Wetland Function-Value Evaluation Form

Wetland I.D.	042418 WA 002 PEM/PSS			
Latitude	40.605176			
Longitude	-75.226559			
Prepared by	W. Anderson, M. Taranowski			
Date	4/24/2018			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.45			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Agriculture, Residential, Fallow field			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM/PSS			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	No			
If not, where does the wetland lie in the drainage basin? (select)	Yes			
How many tributaries contribute to the wetland?	1			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	No	7, 9, 13	
 Floodflow Alteration	Yes	Yes	2, 5, 9, 13	
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	Yes	Yes	7, 9, 10, 14	
Nutrient Removal	Yes	No	3, 7, 9	
 Production Export	No			
Sediment/Shoreline Stabilization	Yes	Yes	1, 2, 6, 9, 12, 13	
 Wildlife Habitat	Yes	Yes	7, 8, 17	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

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* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form









Wetland I.D.	042418 WA 003 PEM			
Latitude	40.604006			
Longitude	-75.225935			
Prepared by	W. Anderson, M. Taranowski			
Date	4/24/2018			
Wetland Impact Type	See impact table*			
Wetland Impact Area	See impact table*			
Evaluation based on: Office or Field? (select)	Field			
Corps manual wetland delineation completed? (select)	Yes			
Total Area of Wetland	0.43			
Human Made? (select)	No			
Is wetland part of a wildlife corridor or "habitat island"? (select)	Wildlife Corridor			
Adjacent land use	Agriculture, Fallow field			
Distance to nearest roadway or other development	0			
Dominant wetland systems present	PEM			
Contiguous undeveloped buffer zone present? (select)	No			
Is the wetland a separate hydraulic system? (select)	Yes			
If not, where does the wetland lie in the drainage basin? (select)				
How many tributaries contribute to the wetland?	0			
Wildlife & vegetation diversity/abundance (see attached list)				
Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes	Yes	13	
 Floodflow Alteration	No			
 Fish and Shellfish Habitat	No			
Sediment/Toxicant Retention	No			
Nutrient Removal	No			
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	No			
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other	No			

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* Aquatic Resources Impact Table is Provided in JPA Section A-1

Wetland Function-Value Evaluation Form

Wetland I.D.	111314 JC 003 PFO
Complex Notes	
Latitude	40.60139686
Longitude	-75.21881655
Prepared by	G. McBrien, E. Genuardi
Date	4/18/2017 *
Wetland Impact Type	See impact table *
Wetland Impact Area	See impact table
Evaluation based on: Office or Field? (select)	Field
Corps manual wetland delineation completed? (select)	Yes
Total Area of Wetland	0.19 acres
Human Made? (select)	No
Is wetland part of a wildlife corridor or "habitat island"? (select)	"Habitat Island"
Adjacent land use	residential, open land, forested
Distance to nearest roadway or other development	200 ft.
Dominant wetland systems present	PFO
Contiguous undeveloped buffer zone present? (select)	Yes
Is the wetland a separate hydraulic system? (select)	No
If not, where does the wetland lie in the drainage basin? (select)	
How many tributaries contribute to the wetland?	
Wildlife & vegetation diversity/abundance (see attached list)	

Function/Value	Suitability	Principal Function(s) Value(s)	Rationale (Reference #)*	Comments
 Groundwater Recharge/Discharge	Yes		2, 7, 13	
 Floodflow Alteration	Yes		9, 13	
 Fish and Shellfish Habitat	Yes		15	
Sediment/Toxicant Retention	Yes		4, 9, 10, 14	
Nutrient Removal	Yes		7	
 Production Export	No			
Sediment/Shoreline Stabilization	No			
 Wildlife Habitat	Yes		5, 9	
Recreation	No			
 Educational/Scientific Value	No			
 Uniqueness/Heritage	No			
 Visual Quality/Aesthetics	No			
ES Endangered Species Habitat	No			
Other				

*AECOM has adapted the form from the USACE Highway Methodology Workbook Supplement (1999) as reference.