NC WAM FIELD ASSESSMENT FORM Accompanies User Manual Version 5

110	ACE AID #:	NCDWR #:		
USACE AID #: NCDWR #: Project Name Date of Evaluation				
Δr	oplicant/Owner Nam			
, ,	Wetland Typ			
	Level III Ecoregio			
	River Basi			
	Count			
	☐ Yes ☐ N			
		Canada Longitude (deci-degrees)		
Plearecci	ase circle and/or ment past (for instance Hydrological r Surface and stanks, underg Habitat/plant of he assessment are gulatory Considera Anadromous r Federally prot NCDWR ripar Abuts a Prima Publicly owne N.C. Division Abuts a streau	ected species or State endangered or threatened species rian buffer rule in effect ary Nursery Area (PNA) d property of Coastal Management Area of Environmental Concern (AEC) (including buffer) m with a NCDWQ classification of SA or supplemental classifications of HQW, ORW, or Trout		
		CNHP reference community I)-listed stream or a tributary to a 303(d)-listed stream		
Wh	Blackwater Brownwater	stream is associated with the wetland, if any? (check all that apply)		
	Tidal (if tidal,	check one of the following boxes) Lunar Wind Both		
ls t	he assessment are	a on a coastal island? Yes No		
		a's surface water storage capacity or duration substantially altered by beaver?		
1.	Ground Surface C	Condition/Vegetation Condition – assessment area condition metric		
Check a box in each column. Consider alteration to the ground surface (GS) in the assessment area and vegetation structure (VS) the assessment area. Compare to reference wetland if applicable (see User Manual). If a reference is not applicable, then rate t assessment area based on evidence of an effect. GS VS				
	□в □в	Not severely altered Severely altered over a majority of the assessment area (ground surface alteration examples: vehicle tracks, excessive sedimentation, fire-plow lanes, skidder tracks, bedding, fill, soil compaction, obvious pollutants) (vegetation structure alteration examples: mechanical disturbance, herbicides, salt intrusion [where appropriate], exotic species, grazing, reduced diversity [if appropriate], hydrologic alteration)		
2.	Surface and Sub-	Surface Storage Capacity and Duration – assessment area condition metric		
	Check a box in e (Sub). Consider both 1 foot deep is expensive Surf Sub	Pach column. Consider surface storage capacity and duration (Surf) and sub-surface storage capacity and duration on the increase and decrease in hydrology. A ditch ≤ 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only, while a ditch > 1 foot deep is considered to affect surface water only affect surface		
2	Water Storage/S.			
3.	=	rface Relief – assessment area/wetland type condition metric (skip for all marshes)		
		ch column for each group below. Select for the assessment area (AA) and the wetland type (WT).		
	□B □B □C □C □D □D	Majority of wetland with depressions able to pond water > 1 foot deep Majority of wetland with depressions able to pond water 6 inches to 1 foot deep Majority of wetland with depressions able to pond water 3 to 6 inches deep Depressions able to pond water < 3 inches deep		
		Evidence that maximum depth of inundation is greater than 2 feet Evidence that maximum depth of inundation is between 1 and 2 feet Evidence that maximum depth of inundation is less than 1 foot		

		t from each of the three soil property groups below. Dig soil profile in the dominant assessment area landscape feature is servations within the top 12 inches. Use most recent guidance for National Technical Committee for Hydric Soils regions			
	4a.	Sandy soil Loamy or clayey soils exhibiting redoximorphic features (concentrations, depletions, or rhizospheres) Loamy or clayey soils not exhibiting redoximorphic features Loamy or clayey gleyed soil Histosol or histic epipedon			
	4b.	Soil ribbon < 1 inch Soil ribbon ≥ 1 inch			
	4c.	No peat or muck presence A peat or muck presence			
5.	Discharge in	nto Wetland – assessment area opportunity metric			
	Check a bo	heck a box in each column. Consider surface pollutants or discharges (Surf) and sub-surface pollutants or discharges (Sub). xamples of sub-surface discharges include presence of nearby septic tank, underground storage tank (UST), etc.			
		Little or no evidence of pollutants or discharges entering the assessment area			
	_c _c				
6.	Land Use -	opportunity metric (skip for non-riparian wetlands, tidal marshes, and Estuarine Woody Wetland)			
	draining to a	that apply (at least one box in each column). Evaluation involves a GIS effort with field adjustment. Consider source assessment area within entire upstream watershed (WS), within 5 miles and within the watershed draining to the assessment area (2M). 2M			
		A □A ≥ 10% impervious surfaces			
		E □E ≥ 20% coverage of maintained grass/herb			
	□G □(Little or no opportunity to improve water quality. Lack of opportunity may result from little or no disturbance in the watershed <u>or</u> hydrologic alterations that prevent drainage <u>and/or</u> overbank flow from affecting the assessment area.			
7.	Wetland Act	ing as Vegetated Buffer – assessment area/wetland complex condition metric (skip for non-riparian wetlands)			
		essment area within 50 feet of a tributary or other open water?			
	☐Yes 7b. How m	No If Yes, continue to 7b. If No, skip to Metric 8 uch of the first 50 feet from the bank is wetland? (Wetland buffer need only be present on one side of the .water body. Mak			
		udgment based on the average width of wetland. Record a note if a portion of the buffer has been removed or disturbed.)			
	□A ,	≥ 50 feet			
	□B	From 30 to < 50 feet			
	□C □D	From 15 to < 30 feet From 5 to < 15 feet			
		< 5 feet or buffer bypassed by ditches			
		ry width. If the tributary is anastomosed, combine widths of channels/braids for a total width.			
		-feet wide			
	7d. Do roo ☐Yes	ts of assessment area vegetation extend into the bank of the tributary/open water? ☐No			
		ributary or other open water sheltered or exposed?			
	□Shel	tered – open water width < 2500 feet and no regular boat traffic.			
	∐Ехро	osed – open water width ≥ 2500 feet or regular boat traffic.			
8.		dth at the Assessment Area – wetland type/wetland complex condition metric (evaluate WT for all marshes and Toody Wetland only; evaluate WC for Bottomland Hardwood Forest, Headwater Forest, and Riverine Swamp Fores			
		c in each column. Select the average width for the wetland type at the assessment area (WT) and the wetland complex a			
		ent area (WC). See User Manual for WT and WC boundaries.			
	\Box A \Box A				
	□F □F	From 15 to < 30 feet			
	□G □(
		J F foot			

Soil Texture/Structure – assessment area condition metric (skip for all marshes)

J .	indidation buration – assessment area condition metric (skip for non-nparian wetlands)			
	Answer for assessment area dominant landform. A Evidence of short-duration inundation (< 7 consecutive days) B Evidence of saturation, without evidence of inundation C Evidence of long-duration inundation or very long-duration inundation (7 to 30 consecutive days or more)			
10.	Indicators of Deposition – assessment area condition metric (skip for non-riparian wetlands and all marshes)			
	er recent deposition only (no plant growth since deposition). Sediment deposition is not excessive, but at approximately natural levels. Sediment deposition is excessive, but not overwhelming the wetland. Sediment deposition is excessive and is overwhelming the wetland.			
11. Wetland Size – wetland type/wetland complex condition metric				
12	Check a box in each column. Involves a GIS effort with field adjustment. This metric evaluates three aspects of the wetland area: the size of the wetland type (WT), the size of the wetland complex (WC), and the size of the forested wetland (FW) (if applicable, see User Manual). See the User Manual for boundaries of these evaluation areas. If assessment area is clear-cut, select "K" for the FW column. WT WC FW (if applicable) □A □A □A ≥ 500 acres □B □B □B From 100 to < 500 acres □C □C □C From 50 to < 100 acres □D □D □D From 25 to < 50 acres □E □E □E From 10 to < 25 acres □F □F □F From 5 to < 10 acres □G □G □G From 1 to < 5 acres □H □H □H From 0.5 to < 1 acre □H □H □H From 0.1 to < 0.5 acre □J □J □J □J From 0.01 to < 0.1 acre □K □K □K □K < 0.01 acre or assessment area is clear-cut			
12.	Wetland Intactness – wetland type condition metric (evaluate for Pocosins only)			
	□A Pocosin is the full extent (≥ 90%) of its natural landscape size.□B Pocosin is < 90% of the full extent of its natural landscape size.			
13.	Connectivity to Other Natural Areas – landscape condition metric			
	13a. Check appropriate box(es) (a box may be checked in each column). Involves a GIS effort with field adjustment. This metric evaluates whether the wetland is well connected (Well) and/or loosely connected (Loosely) to the landscape patch, the contiguous naturally vegetated area and open water (if appropriate). Boundaries are formed by four-lane roads, regularly maintained utility line corridors the width of a four-lane road or wider, urban landscapes, maintained fields (pasture and agriculture), or open water > 300 feet wide. Well Loosely A A ≥ 500 acres B B From 100 to < 500 acres C C From 50 to < 100 acres D D From 10 to < 50 acres E B E < 10 acres F Wetland type has a poor or no connection to other natural habitats 13b. Evaluate for marshes only. Yes No Wetland type has a surface hydrology connection to open waters/tributary or tidal wetlands.			
14				
	ge Effect – wetland type condition metric (skip for all marshes and Estuarine Woody Wetland) y involve a GIS effort with field adjustment. Estimate distance from wetland type boundary to artificial edges. Artificial edges include a forested areas ≥ 40 feet wide such as fields, development, roads, regularly maintained utility line corridors, and clear-cuts. Consider eight main points of the compass. Artificial edge occurs within 150 feet in how many directions? If the assessment area is clear cut ect option "C." A 0 B 1 to 4 C 5 to 8			
15. Vegetative Composition – assessment area condition metric (skip for all marshes and Pine Flat)				
	Vegetation is close to reference condition in species present and their proportions. Lower strata composed of appropriate species, with exotic plants absent or sparse within the assessment area. Vegetation is different from reference condition in species diversity or proportions, but still largely composed of native species characteristic of the wetland type. This may include communities of weedy native species that develop after clearcutting or clearing. It also includes communities with exotics present, but not dominant, over a large portion of the expected strata. Vegetation severely altered from reference in composition, or expected species are unnaturally absent (planted stands of non-characteristic species or at least one stratum inappropriately composed of a single species), or exotic species are dominant in at least one stratum.			
16.	Vegetative Diversity – assessment area condition metric (evaluate for Non-tidal Freshwater Marsh only)			
	 □A Vegetation diversity is high and is composed primarily of native species (< 10% cover of exotics). □B Vegetation diversity is low or has > 10% to 50% cover of exotics. □C Vegetation is dominated by exotic species (> 50% cover of exotics). 			

17.	Vegetative Structure – assessment area/wetland type condition metric				
	17a. Is vegetation present? ☐Yes ☐No If Yes, continue to 17b. If No, skip to Metric 18.				
	17b. Evaluate percent coverage of assessment area vegetation for all marshes only . Skip to17c for non-marsh wetlands. □A ≥ 25% coverage of vegetation □B < 25% coverage of vegetation				
	17c. Check a box in each column for each stratum. Evaluate this portion of the metric for non-marsh wetlands. Consider structure in airspace above the assessment area (AA) and the wetland type (WT) separately.				
	AA WT				
	Dense mid-story/sapling layer Dense mid-story/sapling layer Dense mid-story/sapling layer Mid-story/sapling layer sparse or absent				
	_ດA				
	☐A ☐A Dense herb layer ☐B ☐B Moderate density herb layer ☐C ☐C Herb layer sparse or absent				
18.	3. Snags – wetland type condition metric (skip for all marshes) A Large snags (more than one) are visible (> 12 inches DBH, or large relative to species present and landscape stability). Not A				
19.	Diameter Class Distribution – wetland type condition metric (skip for all marshes)				
	A Majority of canopy trees have stems > 6 inches in diameter at breast height (DBH); many large trees (> 12 inches DBH) are present.				
	 ☐B Majority of canopy trees have stems between 6 and 12 inches DBH, few are > 12 inch DBH. ☐C Majority of canopy trees are < 6 inches DBH or no trees. 				
20.	Large Woody Debris – wetland type condition metric (skip for all marshes)				
	Include both natural debris and man-placed natural debris. ☐A Large logs (more than one) are visible (> 12 inches in diameter, or large relative to species present and landscape stability). ☐B Not A				
21.	Vegetation/Open Water Dispersion – wetland type/open water condition metric (evaluate for Non-Tidal Freshwater Marsh only)				
	Select the figure that best describes the amount of interspersion between vegetation and open water in the growing season. Patterne areas indicate vegetated areas, while solid white areas indicate open water.	ed			
	□A □B □C □D				
22.	Hydrologic Connectivity – assessment area condition metric (evaluate for riparian wetlands and Salt/Brackish Marsh only)				
	Examples of activities that may severely alter hydrologic connectivity include intensive ditching, fill, sedimentation, channelization, diversion, man-made berms, beaver dams, and stream incision. Documentation required if evaluated as B, C, or D. A Overbank and overland flow are not severely altered in the assessment area. B Overbank flow is severely altered in the assessment area. C Overland flow is severely altered in the assessment area. Both overbank and overland flow are severely altered in the assessment area.				
Note	S S	_			