

Environmental GPS and CADD Standards Guidance and Quality Assurance Checklist

GPS Setup		QC Review
GPS Data Dictionary file as found on the ECAP website		
Settings should have a minimum logging interval of 1 second for point features, with a minimum of 20 positions per point.		
Accuracy should be within 1 meter.		

Field Collection Formatting		QC Review
Wetlands:	Wetlands should be labeled WA, WB, WC. If greater than 26: WAA, WAB, WAC... Boundary points should correspond to wetland ID e.g., WA1, WA2, WA3...	
	Wetland and/or protected species boundaries are to be recorded with points , not lines or areas.	
Streams:	Stream should be labeled SA, SB, SC. If greater than 26: SAA, SAB, SAC... Boundary points should correspond to stream ID e.g., SA1, SA2, SA3...	
	For streams, use appropriate stream feature: "JS MIT" or "JS Non-MIT". Ponds and Tributaries should use "JS Non-MIT"	
	Ponds should be labeled as PA, PB, PC. If greater than 26: PAA, PAB, PAC... Boundary points should correspond to pond ID e.g., PA1, PA2, PA3...	
Tributaries to Waters of the U.S.:	TA, TB, TC. If greater than 26: TAA, TAB, TAC... Boundary points should correspond to tributary ID (TA1, TA2, TA3...)]	
Upland Points:	Use 'point generic' feature to GPS wetland/upland data form locations and intermittent/perennial transitions for streams	
Biologist will provide location of wetland boundaries by flagging and nails, for a PLS to locate. Flagging shall be numbered in consecutively for ease of locating for surveyors.		

Post-Processing Procedures		QC Review
All jurisdictional wetlands and streams need to be represented and labeled in the wetland file.		
Set element scale for all projects to 50.		
The swamp/marsh cell should be placed throughout the wetland area but the density should not obscure other information.		
CAMA wetlands need to be labeled as such.		
Numbered levels are no longer accepted. Usage of the appropriate level will automatically assign the correct line style, weight, and color to a feature		
File Names		
Unverified Wetland Files:	TIP_WEX.DGN	
USACE Verified Wetland Files:	TIP_WET.DGN	
Protected Species Boundaries:	TIP_EPB.DGN	

Additional information for nomenclature and setting up MicroStation Workspaces can be found at:

<https://connect.ncdot.gov/resources/CADD/Pages>

Submittal		QC Review
Corrected or real-time GPS file		
GIS shape file of jurisdictional resources		
MicroStation V8i wetland design file or Open Roads		