



FEB 20 2007

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ROADWAY DESIGN UNIT		
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REVIEW/DISCUSS WITH		

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

February 2, 2007

MEMORANDUM TO:

Philip S. Harris, III, P.E., Natural Environment Unit  
Charles W. Brown, P.E., PLS - Locations & Surveys Unit  
Keith Johnston, P.E., PLS - Photogrammetry Unit  
Jay A. Bennett, P.E.- Roadway Design Unit  
David R. Henderson, P.E. - Hydraulics Unit

FROM:

Gregory J. Thorpe, Ph.D. *Gregory Thorpe*  
Environmental Management Director  
Project Development and Environmental Analysis Branch

Art McMillan, P.E., *Art McMillan*  
State Highway Design Engineer  
Highway Design Branch

SUBJECT:

Jurisdictional Stream Lines

- |   |  |
|---|--|
| Phil Harris- Natural Environment Unit     | Dale Burton- Locations & Surveys Unit    |
| Elizabeth Lusk- Natural Environment Unit  | Marc Clifford- Eng. Application Services |
| Chris Rivenbark- Natural Environment Unit | Keith Johnston- Photogrammetry Unit      |
| Jamie Lancaster- Natural Environment Unit | Art McMillan- Highway Design Branch      |
| Randy Griffin- Natural Environment Unit   | Max Price- Hydraulics Unit               |
| Charlie Brown- Locations & Surveys Unit   |  |

A meeting was held on October 19, 2006 with the above listed staff in attendance. The purpose of the meeting was to review the way jurisdictional streams are shown during the preliminary mapping as well as final plans. The following protocol which will be effective February 1, 2007, was established as a result of the meeting:

- NEU will map jurisdictional streams when preparing the NRTR for the planning document. The jurisdictional streams will be imported into the wetland file and displayed as one of two new line styles (see page 2). After validating the wetland file, it will be placed in the appropriate wetland folder on the project store (R: drive) along with an electronic copy of the NRTR Executive Summary. An email will be sent to Hydraulics, Roadway, Project Development, and Location & Surveys as notification of the file being placed in the wetland folder. Hard copies of the NRTR Executive Summary will also be sent to the same parties.

- Locations and Surveys will coordinate with Photogrammetry to resolve any differences in final stream locations for final design plans. The agreed upon final stream location will be shown in .pln file.
- Depending on the design stage, Roadway (during preliminary mapping) or Location & Surveys (during final design) will use the stream mapping provided in the wetland file as reference so that the existing jurisdictional stream (JS) line style can be assigned. This will allow the correct jurisdictional status to be provided at a higher precision than would be available in the wetland file. The existing -----JS----- line style will continue to be used in the plan sheet mapping.
- If the wetland file is modified (NRTR addendum, USACE re-verification, etc.), NEU will update the wetland file and contact Hydraulics, Roadway, Project Development, and Location & Surveys.

To best accommodate the workflow that was discussed at the meeting, Engineering Application Services has recommended the following:

- Create two new levels in Nat\_Environment\_English\_Levels.dgn lib  
 Exist Hydro Jurisdictional Stream or Body of Water NEU Mitigable  
 Exist Hydro Jurisdictional Stream or Body of Water NEU NonMitigable
- Move current levels for wetlands, endangered plants, and endangered animals from NCDOT\_Basemapping\_Levels.dgnlib to Nat\_Environment\_English\_Levels.dgnlib. This will separate NEU functions from L&S and Photogrammetry functions and help ensure that the appropriate groups are mapping features that are within their responsibility.
- Create two new linestyles. Note that the "NEU JS" was changed to "JS NEU" to be more consistent with the existing JS linestyle name (HYD JS)  
 HYD JS NEU MIT ----- JS NEU ----- (solid lines)  
 HYD JS NEU NONMIT - - - - - JS NEU - - - - - (dashed lines)
- Add new feature types with new feature codes to NCDOT\_English.smd, NCDOT\_Metric.smd .
- Remove wetlands, endangered plants, and endangered animals tools from NCMAP and create a NEU specific tool palette. Add buttons for JS NEU Mitigable and Non-Mitigable features. Revise Mapping Manual to reflect changes to NCMAP.

If you have any questions, please contact Scott Blevins, P.E. at (919) 250-4016 or Randy Griffin, at (919) 715-1425.

cc:

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Jamie Lancaster, P.E.- Natural Environment Unit

Randy Griffin- Natural Environment Unit

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Marc Clifford, P.E.- Engineering Application Services

Max S. Price, P.E.- Hydraulics Unit

Division Engineers

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