



APPENDIX F: WATER QUALITY IMPACT EVALUATION

WATER QUALITY IMPACT EVALUATION
FOR
NEW RIVER CSX RAILROAD BASCULE BRIDGE PD&E STUDY
FROM STATE ROAD (SR) 84 TO DAVIE BOULEVARD (SR 736)
BROWARD COUNTY, FLORIDA

The proposed storm water facility design will include, at a minimum, the water quantity design requirements for water quality impacts as required by the South Florida Water Management District in Rules 40D-4, 40D-40, and 40D-400. Therefore, no further mitigation for water quality impacts will be needed. Please see the attached WQIE Checklist for additional information.

Sandra Scheda, Scheda Ecological Associates, Inc.

Date: **May 17, 2010**

Certificate No. **139**

Exhibit A

WQIE CHECK LIST

Project Name: **New River CSX Railroad Bascule Bridge PD&E Study.**

County: **Broward**

FPID No: **4069191-22-01**

Short project description: **The FDOT is currently conducting a PD&E Study of rehabilitation and replacement alternatives for the moveable railroad bridge over the South Fork of the New River, just west of I-95 in Fort Lauderdale, Florida (Bridge Number SX 1013.8). There are three proposed replacement alternatives for this project. Alternative 1 is a bascule span and includes a single leaf bascule of approximately 96 feet. Alternative 2 is a rolling lift span and would be approximately 96 feet in length. Alternative 3 is a vertical lift span and would have an approximate length of 86 feet between the piers (i.e. towers) in order to span the subject channel.**

PART 1: DETERMINATION OF WQIE SCOPE

Does project increase impervious surface area? Yes No

Does project alter the drainage system? Yes No

If the answer to both questions is no, complete the WQIE by checking Box A in Part 4.

Do environmental regulatory requirements apply? Yes No

PART 2: PROJECT CHARACTERISTICS

20-year design ADT: **N/A**

Current activity: approximately 4.3 CSX unit stone trains per day (100-120 cars per train); approximately 3.0 local CSX freight service (varies from 5 to 20 cars per train); and approximately 1.6 CSX work trains.

This project is a maintenance project and, as such, will not be increasing the capacity of the rail corridor. Therefore, rail activity is not anticipated to increase for the design period as a result of this project.

Expected speed limit: **40 mph**

Drainage area: **5.5 +/- acres (within limits of proposed construction)**

70% Impervious 30% Pervious

Land Use: **Major land uses include: 48% Transportation, Communication, and Utilities; 34% Urban and Built-Up; 12% Streams and Waterways; and 4% Rangeland.**

Potential large sources of pollution (identify): **None**

Groundwater receptor (name of aquifer or N/A): **Biscayne**

Designated well head protection area? Yes No

Name: **N/A**

Sole source aquifer Yes No Name: **Biscayne**

Groundwater recharge mechanism: **Percolation**

WQIE CHECK LIST (Continued)

PART 4: WQIE DOCUMENTATION

A. Water quality is not an issue.

B. No regulatory requirements apply to water quality issues.

(Document by checking the "none" box for water quality in Section 6.C.3 of the Environmental Determination Form or Section 5.C.3 of the SEIR.)

C. Regulatory requirements apply to water quality issues. Water quality issues will be mitigated through compliance with the quantity design requirements placed by the South Florida Water Management District, authorized regulatory agency. (Document by checking the "none" box for water quality in Section 6.C.3 of the Environmental Determination Form or Section 5.C.3 of the SEIR.)

Evaluator Name (print): **Sandra Scheda – Certificate No. 139**

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Signature: *Sandra Scheda Klaus*

Date: May 17, 2010