



**WEKIVA PARKWAY (SR 429)/SR 46 REALIGNMENT  
PD&E STUDY**

**ENVIRONMENTAL ASSESSMENT**

**APPENDICES E, F and G**

**AUGUST 2010**

## Water Quality Impact Evaluation (WQIE) Check List

Project Name: Wekiva Parkway/SR 46 Realignment PD&E Study

County: Seminole County

FIN: 238275 1 22 01 and 240200 1 22 01

Federal Aid Project No.: TBD

Short Project Description: Construction of a limited access extension of the Western Beltway SR 429 consisting of three components: the Apopka Bypass, Wekiva Parkway, and SR 46 Connector in Orange, Seminole and Lake Counties.

The easternmost portion of the study area just west of I-4 and SR 46.

### PART 1: DETERMINATION OF WQIE SCOPE

Does project increase impermeable 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

If no, proceed to Part 4 and check Box B.

### PART 2: PROJECT CHARACTERISTICS

20-year design ADT: 91,120 Expected speed limit: 45 MPH

Drainage area: 140.3\* acres 44.6 % Impervious 55.4 % Pervious

\* NOTE: In addition there are 89.7 ac of the existing I-4/SR 429 interchange that will involve pond reconfiguration

Land Use: 55 % Residential 20 % Commercial          % Industrial

15 % Agricultural 10 % Wetlands          % Other Natural

Potential large sources of pollution (identify): Roadway and bridge runoff

Groundwater receptor (name of aquifer or N/A): Floridan Aquifer

Designated well head protection area:  Yes  No Name:         

Sole source aquifer:  Yes  No Name:         

Groundwater recharge mechanism: Infiltration

(Notify District Drainage Engineer if karst conditions expected)

Surface water receptor (name or N/A): Lake Monroe/St. Johns River

Classification:  I  II  III  IV  V

Special designation (check all that apply):

ONRW  OFW  Aquatic Preserve  Wild & Scenic River

Special Water  SWIM Area  Local Comp Plan  MS4 Area

Other (specify): Lake Monroe is listed as an impaired water body by FDEP

Conceptual storm water conveyances & system (check all that apply):

Swales  Curb and Gutter  Scuppers  Pipe  French Drains

Retention/Detention Ponds  Other

## WQIE Check List (continued)

### PART 3: ENVIRONMENTAL REGULATORY REQUIREMENTS

Regulatory Agency (check all that apply)	(check)	Reference citation for regulatory criteria ( <b>attach copy of pertinent pages</b> )	Most Stringent criteria (check all that apply)	(check all that apply)
USEPA	<input type="checkbox"/>			<input type="checkbox"/>
FDEP	<input checked="" type="checkbox"/>	NPDES General Permit		<input type="checkbox"/>
FDEP/SJRWMD**	<input checked="" type="checkbox"/>	Chapters 40C-4, 40C-41, 40C-42, F.A.C., & Recharge Criteria for Wekiva River Study Area		<input checked="" type="checkbox"/>
OTHER (Specify)	<input type="checkbox"/>	Wekiva Basin Area Task Force Final Report 1-15-03		<input type="checkbox"/>

\*\*NOTE: Drainage criteria for the SJRWMD apply with permitting through the Florida Department of Environmental Protection.

Proceed to Part 4 and check Box C.

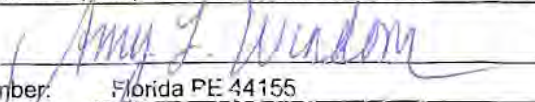
### PART 4: WQIE DOCUMENTATION

- 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 FDEP\*\*, an 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.)

\*\*NOTE: Drainage criteria for the SJRWMD apply with permitting through the Florida Department of Environmental Protection.

Evaluator Name (print): Amy L. Windom, P.E.

Office: CH2M HILL, Inc., 225 East Robinson Street, Suite 505, Orlando, FL 32801-4322

Signature:  Date: 6/3/2010

Certificate Number: Florida PE 44155

## Water Quality Impact Evaluation (WQIE) Check List

Project Name: Wekiva Parkway/SR 46 Realignment PD&E Study  
County: Orange, Lake, and Seminole Counties  
FIN: 238275 1 22 01 and 240200 1 22 01  
Federal Aid Project No.: TBD  
Short Project Description: Construction of a limited access extension of the Western Beltway SR 429 consisting of three components: the Apopka Bypass, Wekiva Parkway, and SR 46 Connector in Orange, Seminole and Lake Counties.

This segment includes the majority of the study area north of US 441 and 2.7 miles east of the Wekiva River along SR 46.

### PART 1: DETERMINATION OF WQIE SCOPE

Does project increase impermeable 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  
If no, proceed to Part 4 and check Box B.

### PART 2: PROJECT CHARACTERISTICS

20-year design ADT: 64,620 Expected speed limit: 45-70 MPH  
Drainage area: 1090.7 acres 43.5 % Impervious 56.5 % Pervious  
Land Use: 15 % Residential 5 % Commercial \_\_\_\_\_ % Industrial  
20 % Agricultural 10 % Wetlands 50 % Other Natural  
Potential large sources of pollution (identify): Roadway and bridge runoff  
Groundwater receptor (name of aquifer or N/A): Floridan Aquifer  
Designated well head protection area:  Yes  No Name: \_\_\_\_\_  
Sole source aquifer:  Yes  No Name: \_\_\_\_\_  
Groundwater recharge mechanism: Infiltration  
(Notify District Drainage Engineer if karst conditions expected)  
Surface water receptor (name or N/A): Wekiva River  
Classification:  I  II  III  IV  V

Special designation (check all that apply):

ONRW  OFW  Aquatic Preserve  Wild & Scenic River  
 Special Water  SWIM Area  Local Comp Plan  MS4 Area  
 Other (specify): This project is within SJRWMD's special basin criteria for the Wekiva River Basin. Wekiva River is not listed as an impaired water body by FDEP.

Conceptual storm water conveyances & system (check all that apply):

Swales  Curb and Gutter  Scuppers  Pipe  French Drains  
 Retention/Detention Ponds  Other \_\_\_\_\_

## WQIE Check List (continued)

### PART 3: ENVIRONMENTAL REGULATORY REQUIREMENTS

Regulatory Agency all that apply)	(check all that apply)	Reference citation for regulatory criteria ( <b>attach copy of pertinent pages</b> )	Most Stringent criteria that apply)	(check all that apply)
USEPA	<input type="checkbox"/>			<input type="checkbox"/>
FDEP	<input checked="" type="checkbox"/>	NPDES General Permit		<input type="checkbox"/>
FDEP/SJRWMD**	<input checked="" type="checkbox"/>	Chapters 40C-4, 40C-41, 40C-42, F.A.C.,		<input checked="" type="checkbox"/>
OTHER (Specify)	<input type="checkbox"/>			<input type="checkbox"/>

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Proceed to Part 4 and check Box C.

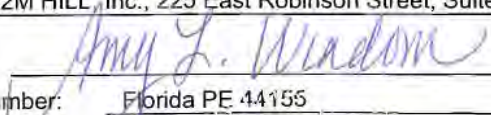
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## WQIE Check List (continued)

### PART 3: ENVIRONMENTAL REGULATORY REQUIREMENTS

Regulatory Agency all that apply)	(check all that apply)	Reference citation for regulatory criteria ( <b>attach copy of pertinent pages</b> )	Most Stringent criteria that apply)	(check all that apply)
USEPA	<input type="checkbox"/>			<input type="checkbox"/>
FDEP	<input checked="" type="checkbox"/>	NPDES General Permit		<input type="checkbox"/>
FDEP/SJRWMD**	<input checked="" type="checkbox"/>	Chapters 40C-4, 40C-41, 40C-42, F.A.C., Phosphorus Criteria for Lake Apopka		<input checked="" type="checkbox"/>
OTHER (Specify)	<input type="checkbox"/>			<input type="checkbox"/>

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Proceed to Part 4 and check Box C.

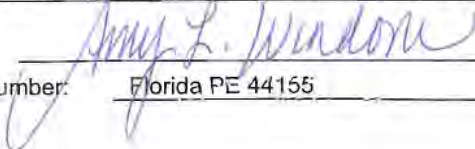
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Evaluator Name (print): Amy L. Windom, P.E.

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Signature: 

Date: 10/31/2010

Certificate Number: Florida PE 44155

## Water Quality Impact Evaluation (WQIE) Check List

Project Name: Wekiva Parkway/SR 46 Realignment PD&E Study

County: Orange County

FIN: 238275 1 22 01 and 240200 1 22 01

Federal Aid Project No.: TBD

Short Project Description: Construction of a limited access extension of the Western Beltway SR 429 consisting of three components: the Apopka Bypass, Wekiva Parkway, and SR 46 Connector in Orange, Seminole and Lake Counties.

Approximately one-half mile of the Wekiva Parkway, north of the planned US 441/John Land Apopka Expressway interchange is located within the Lake Apopka unit of the Ocklawaha River Basin.

### PART 1: DETERMINATION OF WQIE SCOPE

Does project increase impermeable 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

If no, proceed to Part 4 and check Box B.

### PART 2: PROJECT CHARACTERISTICS

20-year design ADT: 66,850- 68,250 Expected speed limit: 70 MPH

Drainage area: 34.5 acres 44.0 % Impervious 56.0 % Pervious

Land Use: 55 % Residential 15 % Commercial 0 % Industrial

25 % Agricultural 0 % Wetlands 5 % Other Natural

Potential large sources of pollution (identify): Roadway and bridge runoff

Groundwater receptor (name of aquifer or N/A): Floridan Aquifer

Designated well head protection area:  Yes  No Name: \_\_\_\_\_

Sole source aquifer:  Yes  No Name: \_\_\_\_\_

Groundwater recharge mechanism: Infiltration

(Notify District Drainage Engineer if karst conditions expected)

Surface water receptor (name or N/A): Lake Apopka/Ocklawaha River

Classification:  I  II  III  IV  V

Special designation (check all that apply):

ONRW  OFW  Aquatic Preserve  Wild & Scenic River

Special Water  SWIM Area  Local Comp Plan  MS4 Area

Other (specify): Lake Apopka is listed as an impaired water body by FDEP

Conceptual storm water conveyances & system (check all that apply):

Swales  Curb and Gutter  Scuppers  Pipe  French Drains

Retention/Detention Ponds  Other \_\_\_\_\_



# **Appendix E**

## **Water Quality Impact Evaluation Checklists**

## WQIE Check List (continued)

### PART 3: ENVIRONMENTAL REGULATORY REQUIREMENTS

Regulatory Agency all that apply)	(check	Reference citation for regulatory criteria ( <b>attach copy of pertinent pages</b> )	Most Stringent criteria that apply)	(check all
USEPA	<input type="checkbox"/>			<input type="checkbox"/>
FDEP	<input checked="" type="checkbox"/>	NPDES General Permit		<input type="checkbox"/>
FDEP/SJRWMD**	<input checked="" type="checkbox"/>	Chapters 40C-4, 40C-41, 40C-42, F.A.C.		<input checked="" type="checkbox"/>
OTHER (Specify)	<input type="checkbox"/>	Wekiva Basin Area Task Force Final Report 1-15-03		<input type="checkbox"/>

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Proceed to Part 4 and check Box C.

### 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 FDEP\*\*, an 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.)

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