

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
WATER QUALITY IMPACT EVALUATION CHECKLIST

650-050-37
ENVIRONMENTAL
MANAGEMENT
08/22

PART 1: PROJECT INFORMATION

Project Name:	Truck Parking Central Florida Corridor - Volusia County Site 1B
County:	Volusia
FM Number:	446445-4
Federal Aid Project No:	
Brief Project Description:	This Project Development and Environment (PD&E) Study is to identify and recommend viable truck and freight parking sites along the I-4 corridor. Volusia County Site 1B is located directly adjacent to the I-4 westbound travel lanes and approximately 4.5 miles west of I-95.

PART 2: DETERMINATION OF WQIE SCOPE

Does project discharge to surface or ground water? Yes No

Does project alter the drainage system? Yes No

Is the project located within a permitted MS4? Yes No

Name: Volusia County Phase II C

If the answers to the questions above are no, complete the applicable sections of Part 3 and 4, and then check Box A in Part 5.

PART 3: PROJECT BASIN AND RECEIVING WATER CHARACTERISTICS

Surface Water

Receiving water names: Tiger Bay via wetlands

Water Management District: St. Johns River

Environmental Look Around meeting date: N/A

Attach meeting minutes/notes to the checklist.

Water Control District Name(s) (list all that apply): N/A

Groundwater

Sole Source Aquifer (SSA)? Yes No

Name Volusia-Floridian Aquifer

If yes, complete Part 5, D and complete SSA Checklist shown in Part 2, Chapter 11 of the PD&E Manual

Other Aquifer? Yes No
Name _____

Springs vents? Yes No
Name _____

Well head protection area? Yes No

Name N/A

Groundwater recharge? Yes No

Name Volusia-Floridian Aquifer

Notify District Drainage Engineer if karst conditions are expected or if a higher level of treatment may be needed due to a project being located within a WBID verified as Impaired in accordance with Chapter 62-303, F.A.C.

Date of notification: N/A

PART 4: WATER QUALITY CRITERIA

List all WBIDs and all parameters for which a WBID has been verified impaired, or has a TMDL in [Table 1](#). This information should be updated during each re-evaluation as required.

Note: If BMAP or RAP has been identified in [Table 1](#), [Table 2](#) must also be completed. Attach notes or minutes from all coordination meetings identified in [Table 2](#).

EST recommendations confirmed with agencies? Yes No

BMAP Stakeholders contacted? Yes No

TMDL program contacted? Yes No

RAP Stakeholders contacted? Yes No

Regional water quality projects identified in the ELA? Yes No

If yes, describe:

Potential direct effects associated with project construction and/or operation identified? Yes No

If yes, describe:

Discuss any other relevant information related to water quality including Regulatory Agency Water Quality Requirements.

SJRWMD water quality for wet detention applies (the greater of 1" of runoff from the drainage area or 2.5" of runoff from the impervious area).


PART 5: WQIE DOCUMENTATION

- A. No involvement with water quality
- B. No water quality regulatory requirements apply.
- C. Water quality regulatory requirements apply to this project (provide Evaluator's information below). Water quality and stormwater issues will be mitigated through compliance with the design requirements of authorized regulatory agencies.
- D. EPA Ground/Drinking Water Branch review required. Yes No
Concurrence received? Yes No
If Yes, Date of EPA Concurrence: 3/20/2024.
Attach the concurrence letter

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022 and executed by the Federal Highway Administration and FDOT.

Evaluator Name (print): Renato Chuw, P.E.

Title: Senior Drainage Engineer

Signature: 

Date: 4/3/2024

Table 1: Water Quality Criteria

Receiving Waterbody Name (list all that apply)	FDEP Group Number / Name	WBID(s) Numbers	Classification (I,II,III,IIII,IV,V)	Special Designations*	NNC limits**	Verified Impaired (Y/N)	TMDL (Y/N)	Pollutants of concern	BMAP, RA Plan or SSAC
Drainage Canals	5	2654	III	OFW	Stream	No	No		N/A

* ONRW, OFW, Aquatic Preserve, Wild and Scenic River, Special Water, SWIM Area, Local Comp Plan, MS4 Area, Other

** Lakes, Spring vents, Streams, Estuaries

Note: If BMAP or RAP has been identified in [Table 1](#), [Table 2](#) must also be completed.



REGION 4
ATLANTA, GA 30303

March 20, 2024

Ms. Casey Lyon
Environmental Manager
Florida Department of Transportation, District V
719 S. Woodland Boulevard
DeLand, Florida 32720

Subject: Sole Source Aquifer Review/Concurrence Truck and Freight Alternative Site Analysis Project Development and Environment (PD&E) Study in Volusia County [1B], Florida, Financial Project ID: 447724-1-22-01.

Dear Ms. Lyon:

The U.S. Environmental Protection Agency, Region 4 received the Florida Department of Transportation's (FDOT) request on February 22, 2024, to review the above referenced project pursuant to Section 1424(e) of the Safe Drinking Water Act (SDWA), [42 U.S.C. § 300h-3](#). The objective of the EPA's review is to determine if the project lies within the boundaries, including recharge and streamflow source zones, of an EPA designated Sole Source Aquifer (SSA), and to determine if the project poses potential adverse health or environmental impacts. A SSA is the sole or principal water source for a designated area.

The Truck and Freight Alternative Site Analysis Project Development and Environment (PD&E) project along the I-4 corridor in the county undertaken by FDOT (District 5), has been determined to lie inside the designated boundaries of the Volusia-Floridan Sole Source Aquifer and based on the information provided, may cause a significant impact to the aquifer system when the Project's truck parking sites (with new stormwater ponds) are constructed. However, with proper implementation of best management practices (BMPs), these potential impacts can be adequately reduced or properly mitigated. To that effect, when constructing parking sites, the FDOT must adhere to the BMPs provide listed below.

1. FDOT Design Manual Chapter 320 Stormwater Pollution Prevention Plan (SWPPP)
2. FDOT Standard Specification for Road and Bridge Construction,
 - a. Section 6 – Control of Materials
 - b. Section 104 – Prevention, Control, And Abatement of Erosion and Water Pollution
 - c. Section 455 – Structures Foundations
3. U.S. Bureau of Reclamation Engineering Geology Field Manual – Chapter 20 Water Control.
<https://www.usbr.gov/tsc/techreferences/mands/geologyfieldmanual-vol2/Chapter20.pdf>

Furthermore, all debris from any demolition of the existing structures must be properly contained and removed from the site prior to construction of the new structure. If applicable, all county flood plain management plans and public notification processes must be followed. During construction, it is the EPA's understanding and expectation that those responsible for the project will strictly adhere to all Federal, State, and local government permits, ordinances, planning designs, construction codes, operation, maintenance, and engineering requirements, and any contaminant mitigation recommendations outlined by federal and state agency reviews. All best management practices for erosion and sedimentation control must also be followed and State and local environmental offices must be contacted to address proper drainage and storm water designs. Additionally, the project manager should contact State and local environmental officials to obtain a copy of any local Wellhead Protection Plans. The following website provides information regarding the Florida Department of Environmental Protection's Source Water Assessment and Protection Program. <http://www.dep.state.fl.us/swapp/Default.html>.

The EPA finds that, if the conditions outlined above are adhered to, this Project should have no significant impact to the aquifer system. Please note that this "no significant impact" finding has been determined based on compliance with the requirements outlined above and, on the information provided. Further, this finding only relates to Section 1424(e) of the SDWA, [42 U.S.C. § 300h-3](#). If there are any significant changes to the project, the EPA Region 4 office should be notified for further review. Other regulatory groups within the EPA responsible for administering other programs may, at their own discretion and under separate cover, provide additional comments.

Thank you for your concern with the environmental impacts of this project. If you have any questions, please contact Ms. Jayeeta Chakraborty at 404-562-8845 or Chakraborty.Jayeeta@epa.gov or Mr. Larry Cole at 404-562-9474 or Cole.Larry@epa.gov.

Sincerely,

KHURRAM

RAFI

Khurram Rafi, Manager
Groundwater and GIS Section
Safe Drinking Water Branch
Water Division
U.S. EPA, Region 4

Digitally signed by KHURRAM
RAFI
Date: 2024.03.20 16:10:24
-04'00'

cc: Ed Northey, FDOT District V, Supervisor, Edward.Northey@dot.state.fl.us
Sunserea Gates, VHB, sgates@vhb.com

EPA Sole Source Aquifer Checklist

PROJECT NAME: **Truck Parking Central Florida Corridor - Volusia County Site 1B**

NAME OF SOLE SOURCE AQUIFER: **Volusia-Floridian Aquifer**

1. Location of project: **Along I-4, 4.5 miles west of I-95, in Volusia County**
2. Project description. **Truck parking site with new stormwater ponds.**
3. Is there any increase of impervious surface? If so, what is the area?
The impervious area will increase from 0 acres to 23.67 acres.
4. Describe how storm water is currently treated on the site?
There is no existing treatment on the project site.
5. How will storm water be treated on this site during construction and after the project is complete? **One wet detention pond will be constructed and an existing I-4 pond will be expanded to treat and attenuate stormwater.**
6. Are there any underground storage tanks present or to be installed? Include details of such tanks.
No.
7. Will there be any liquid or solid waste generated? If so, how will it be disposed of? **A restroom facility will be constructed. During the design phase, sewer connections will be designed as appropriate.**
8. What is the depth of excavation?
6.1 feet
9. Are there any wells in the area that may provide direct routes for contaminants to access the aquifer and how close are they to the project?
No.
10. Are there any hazardous waste sites in the project area, especially if the waste site has an underground plume with monitoring wells that may be disturbed? Include details.
No.
11. Are there any deep pilings that may provide access to the aquifer?
No.
12. Are Best Management Practices planned to address any possible risks or concerns?
Yes, stormwater ponds are proposed. Additional BMPs may be considered during design.
13. Is there any other information that could be helpful in determining if this project may have an effect on the aquifer?
N/A
14. Does this Project include any improvements that may be beneficial to the aquifer, such as improvements to the wastewater treatment plan?
N/A

The EPA Sole Source Aquifer Program may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

Figure 11-1 Sole Source Aquifer Checklist