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DISTRICT 5

JAMES T. DINNEEN
COUNTY MANAGER

October 20, 2008

Mr. Kirby Green, Executive Director
St. Johns River Water Management District
P.O. Box 1429
Palatka, FL 32178-1429

Re: Required Response to District Water Supply Plan 2005 –
Water Supply Entity Notification

Dear Mr. Green:

Please find attached Volusia County's forms for Water Supply Entity Notification. The two water supply projects identified are:

- Seminole County's Yankee Lake Surface Water Plant
- Volusia/Sanford Reclaimed Water Interconnect

As you know, the Yankee Lake Surface Water project is facilitated by District staff and consultant. The second project is a joint venture with the City of Sanford for augmentation and expansion of Volusia County's reclaimed system.

Please contact Gloria Marwick, Water Resources and Utilities Director at 386-943-7027 or gmarwick@co.volusia.fl.us if additional information is needed.

Sincerely,

Mary Anne Connors
Deputy County Manager

MAC:GM:wI

cc: James Dinneen, County Manager
George Recktenwald, Public Works Director
Gloria Marwick, Water Resources and Utilities Director
Don Brandes, SJRWMD

**Form for
Required Response to District Water Supply Plan 2005 –
Water Supply Entity Notification**

The St. Johns River Water Management District's (SJRWMD) Governing Board approved the District Water Supply Plan 2005 (DWSP 2005), on February 7, 2006. Subsequently, pursuant to the provisions of Section 373.0361, *Florida Statutes*, SJRWMD notified by certified mail each water supply entity that should implement water supply development project options identified in the DWSP 2005. Water supply entities have one year from the receipt of the notification letter to respond to the District. This form may be used to submit the required response. Water supply entities that received notification should complete the appropriate information and send to Don Brandes at St. Johns River Water Management District, P.O. Box 1429, Palatka, FL 32178-1429 or email at dbrandes@sjrwmd.com. If you have any questions, please contact him by e-mail or phone: (386) 329-4126.

√Please complete a separate form for each water supply development project to be implemented.

1. Name of water supply entity: Volusia County Water Resources & Utilities

2. Water supply entity staff contact person for this response:

Name: Gloria Marwick

Title: Water Resources & Utilities Director

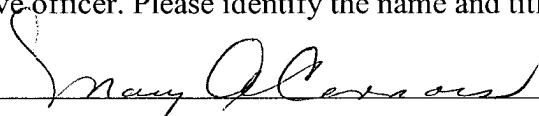
Address: 123 W. Indiana Ave., DeLand, FL 32720

Telephone number: 386-943-7027

E-mail address: gmarwick@co.volusia.fl.us

Date of response: 8/1/08

3. The information on this form should be approved by an authorized water supply entity manager or chief administrative officer. Please identify the name and title of that person here:

Name: Mary Anne Connors 

Title: Deputy County Manager

4. Name of project: Seminole County's Yankee Lake Surface Water Plant

5. Was this project identified in Item 1 of the notification letter as a project to be considered for implementation by your water supply entity? Yes No

6. If the answer to number 5 is "No," are you requesting that this project be considered for inclusion in the DWSP in its next update or amendment? Yes No

7. What type of alternative supply is to be developed? (Check box.)

Brackish groundwater for potable use

Surface water for potable use

Seawater for potable use

Reclaimed water

Reuse augmentation

Other (describe) _____

8. What is the source and location of withdrawal? Flagler/Volusia Coast (TBD)

9. How much water will be withdrawn from the source? 65 mgd

10. How much water will be made available for use by the project? 7.5 mgd

11. How much reject/concentrate water, if any, will be produced by the project? 30%

12. What are the project's major components and total capacities? (Check box if included.)

Wells _____ mgd

Surface water withdrawal facilities..... 85 mgd

Treatment facilities 85 mgd

Tank storage..... TBD

Surface reservoir storage _____ mgd

Aquifer storage _____ mgd

Transmission lines 65 mgd

Other (describe) _____ _____ mgd

13. What is the project schedule? (month/year) **See attached schedule**

Financial planning Start date _____ Finish date _____

Facilities master planning Start date _____ Finish date _____

(If facilities master plan is complete, provide title and date.)

Design Start date _____ Finish date _____

Permitting Start date _____ Finish date _____

Construction Start date _____ Finish date _____

14. What are the project costs?

Planning\$ 6,400,000 to 35% design

Design\$

Capital construction cost.....\$

Non-capital construction cost\$

Total project costs..\$ 740,541,229 to \$1,200,000,000

15. What is the unit cost of production per 1,000 gallons of finished water? (Calculate this number based on the instructions provided at the end of this document and show the calculation, including production costs and total water quantity produced.) \$ 7.64/1,000 gallons (see attached cost estimates)

16. Is this project being performed in cooperation with one or more other water supply entities? Yes No

17. What are the proposed funding sources? (Specify amount from each funding source.)

Water supply entity (PDR to 35% design)	\$ <u>10,000</u>
Other water supply entities or regional water supply entity	\$ <u>4,480,000</u>
SJRWMD	\$ <u>1,920,000</u>
Other water management district (Specify which district(s).)	\$ _____
State of Florida	\$ _____
Federal	\$ _____
Other _____	\$ _____
TOTAL	\$ <u>6,400,000</u>

Instructions for calculating unit cost of production:

Unit production cost is defined as the total annual cost of water production divided by the total annual production volume as follows:

$$UPC = \text{Annual Cost} / (\text{ADF} \times (1,000) \times (365))$$

Where:

UPC = unit production cost in \$/1,000 gallons

Annual Cost = total equivalent annual cost of water production including treatment costs, storage costs and transmission costs (as applicable) in \$/year. Equivalent annual cost includes amortized capital costs plus annual operation and maintenance costs.

ADF = average daily flow of product water, in mgd.

Capital costs should include construction costs, land costs and all other non-construction capital costs such as planning, permitting and design, as applicable. Additional general guidance may be found in SJ2005-SP1 *Cost Estimating and Economic Criteria for 2005 District Water Supply Plan*.

7. What type of alternative supply is to be developed? (Check box.)

Brackish groundwater for potable use

Surface water for potable use

Seawater for potable use

Reclaimed water

Reuse augmentation

Other (describe) _____

8. What is the source and location of withdrawal? City of Sanford @ Lake Monroe

9. How much water will be withdrawn from the source? .400 mgd to 1.5 mgd

10. How much water will be made available for use by the project? 1.5 mgd

11. How much reject/concentrate water, if any, will be produced by the project? 0

12. What are the project's major components and total capacities? (Check box if included.)

Wells _____ mgd

Surface water withdrawal facilities..... _____ mgd

Treatment facilities _____ mgd

Tank storage.....

Surface reservoir storage _____ mgd

Aquifer storage _____ mgd

Transmission lines 1.5 mgd

Other (describe) _____ _____ mgd

13. What is the project schedule? (month/year) **See attached schedule**

Financial planning	Start date _____	Finish date _____
Facilities master planning	Start date _____	Finish date _____

(If facilities master plan is complete, provide title and date.)

Design	Start date _____	Finish date _____
Permitting	Start date _____	Finish date _____
Construction	Start date _____	Finish date _____

14. What are the project costs?

Planning
Design \$ 403,612
Capital construction cost..... \$ 2,690,742
Non-capital construction cost \$ 269,075
Total project costs..... \$ 3,363,429

15. What is the unit cost of production per 1,000 gallons of finished water? (Calculate this number based on the instructions provided at the end of this document and show the calculation, including production costs and total water quantity produced.) \$ 1.52/1,000 gallons

16. Is this project being performed in cooperation with one or more other water supply entities? Yes No

17. What are the proposed funding sources? (Specify amount from each funding source.)

Water supply entity	\$ <u>2,820,142</u>
Other water supply entities or regional water supply entity	\$ <u>543,287 (Sanford)</u>
SJRWMD	\$ _____
Other water management district (Specify which district(s).)	\$ _____
State of Florida	\$ _____
Federal	\$ _____
Other _____	\$ _____
TOTAL	\$ <u>3,363,429</u>

Instructions for calculating unit cost of production:

Unit production cost is defined as the total annual cost of water production divided by the total annual production volume as follows:

$$UPC = \text{Annual Cost} / (\text{ADF} \times (1,000) \times (365))$$

Where:

UPC = unit production cost in \$/1,000 gallons

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Capital costs should include construction costs, land costs and all other non-construction capital costs such as planning, permitting and design, as applicable. Additional general guidance may be found in SJ2005-SP1 *Cost Estimating and Economic Criteria for 2005 District Water Supply Plan*.