

# Mini Budget Review



**WATER RESOURCES & UTILITIES DIVISION  
PUBLIC WORKS DEPARTMENT**

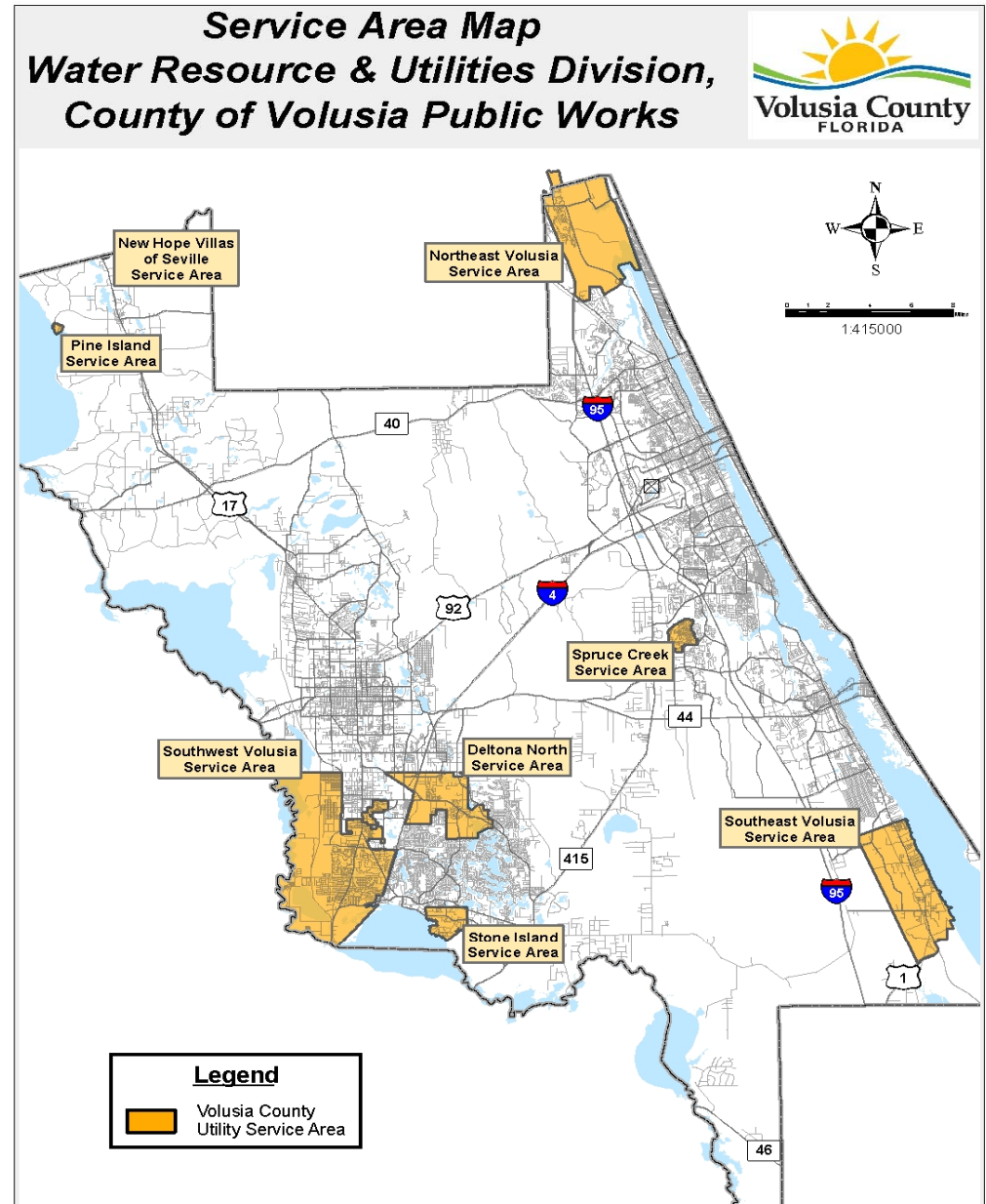
December 9, 2010

# Service Areas

## Water Connections

- Northeast 1,873
- Spruce Creek 1,651
- Southeast 1,599
- Southwest 7,421
- Deltona North 1,482
- Other small systems 770

**Total 14,796**



Prepared by: County of Volusia Public Works, 12/3/10 File: /pw/ongoing/ServiceAreaEng.mxd

# Water Treatment

3

- ❖ 3.38 mgd water produced and 0.41 mgd purchased for resale
- ❖ 9 water treatment plants - 108,000 gpd to 5 mgd
- ❖ 2 membrane softening plants (Halifax Plantation and Spruce Creek)
- ❖ 233 miles of water lines
  
- ❖ **Total CUP allocation**
  - ❖ **5.0 mgd in 2011**
  - ❖ **4.9 mgd in 2019**

# Wastewater Treatment

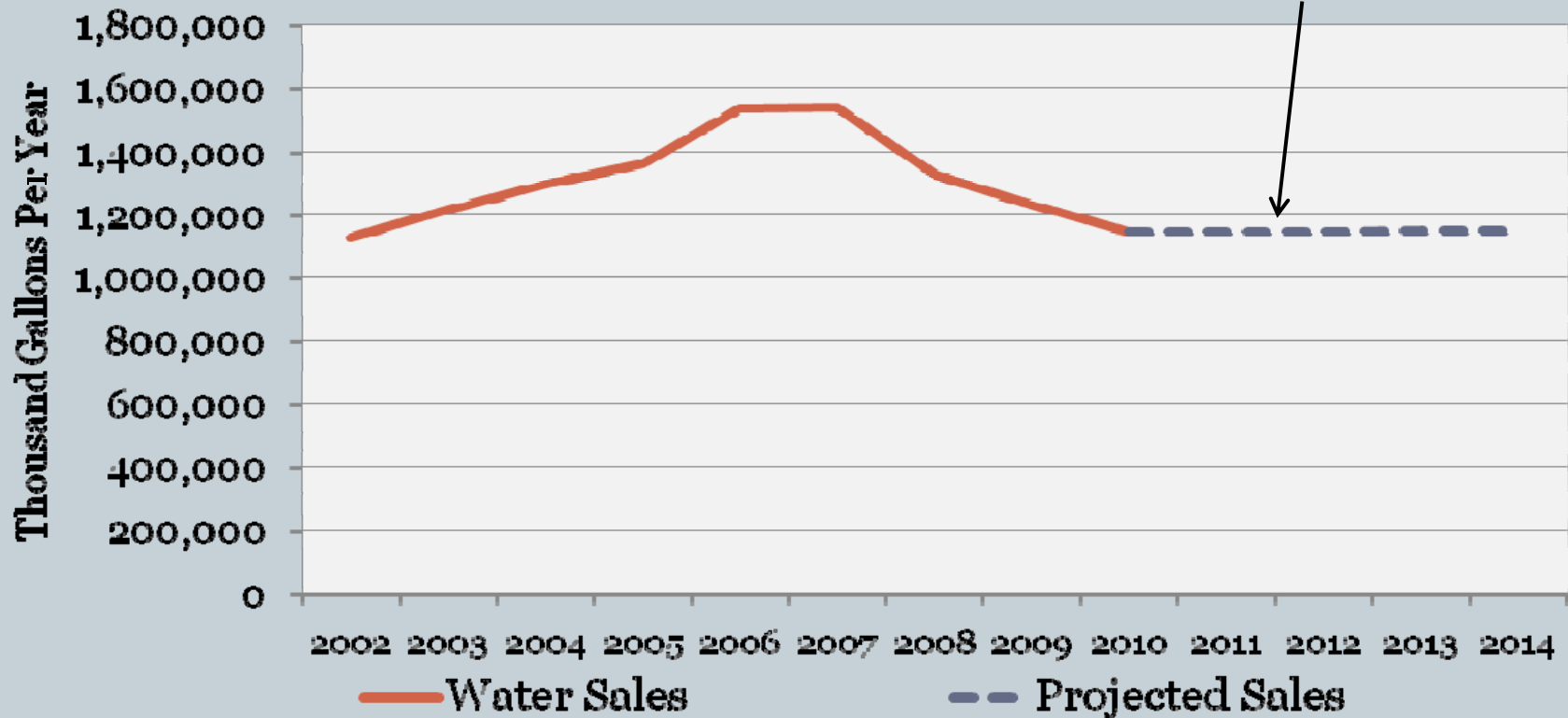
4

- ❖ 1.9 mgd wastewater treated
- ❖ 4 regional wastewater treatment plants - 300,000 gpd to 1.2 mgd (3 plants produce reclaimed water)
- ❖ 187 miles of sewer lines
- ❖ No surface water discharge of wastewater effluent
- ❖ 1.56 mgd reclaimed water produced

# Historical and Projected Water Sales

5

**Projection**



# Program Efficiencies

6

## **Cross trained operations staff**

- ❖ Treatment plant operators with dual licensing
- ❖ Maintenance team (water distribution and wastewater collections)
- ❖ Incentive programs to keep licensed staff knowledgeable and well trained
- ❖ Lorick Study: Innovative best practices

## **Elimination of wastewater package plants**

- ❖ Meadowlea, Stone Island, Spanish Waters, Hacienda Del Rio

## **Contracted services**

- ❖ Meter reading, Sludge hauling, Sewer line cleaning

## **Telemetry**

- ❖ Remote telemetry monitoring of lift stations, water plants and wastewater plants

# Future Water Supply Challenges

7

- ❖ **SJRWMD - reduce/eliminate groundwater pumping within Blue Spring**
  - ❖ **To comply with the Blue Spring Minimum Flow Regime.**
  - ❖ **May result in a need for up to 7.5 mgd of alternative water supply for the Deltona North and Southwest Service Areas.**
  
- ❖ **Deep Creek design evaluation concluded:**
  - ❖ **Sufficient water could be pulled from Deep Creek and Lake Ashby Canal**
  - ❖ **Up to 7.5 mgd of alternative water supply**
  - ❖ **Storage required**

# Priority Capital Needs for Permit Compliance

8

Capital projects required for **permit compliance**  
Project timeline of 2011 – 2013.

## Wastewater

- ❖ \$700,000 Deltona North WWTP Effluent Disposal Pond Addition
- ❖ \$2,100,000 Deltona North WWTP / Southwest Regional WWTP Reclaimed Water Interconnect

## Water

- ❖ \$600,000 Glenn Abbey WTP Water Quality Improvements
- ❖ \$700,000 Halifax Plantation WTP Well Addition
- ❖ \$200,000 New Hope, Seville WTP Water Quality Improvements

**\$4,300,000 Subtotal**

# Priority Capital Needs

9

Capital projects for **future regulatory compliance and alternative water supply.**  
Project timeline of 2011 – 2015.

## **Reclaimed/Wastewater Water**

- ❖ \$2,000,000 Southwest Regional WWTP Effluent Disposal Pond Addition
- ❖ \$2,500,000 Reclaimed Water Interconnect with the City of Sanford
- ❖ \$1,000,000 Glen Abbey Reclaimed Water Main Extension

**\$5,500,000 Subtotal**

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**Total Capital Needs \$9,800,000**

# Fund Balance for Capital Needs

10

## Fund Balance

**\$8,400,000**

**- 2,000,000**

**\$6,400,000**

**- 5,000,000**

**\$1,400,000**

**Unobligated fund balance**

**Operating reserves (90 days)**

**Fund balance for capital needs**

**Leffler acquisition**

**Reserves for capital needs**

## Capital Needs Funding

**\$9,800,000**

**- 1,400,000**

**\$8,400,000**

**Total capital needs**

**Reserves for capital needs**

**Capital financing needs**

# Revenue Allocations to Projects

11

## **\$ 4,300,000 Permit compliance projects**

- ❖ **\$ 1,400,000 - Unobligated fund balance**
- ❖ **\$ 2,900,000 - Water base rate adjustment (\$1.00)**

# Revenue Allocations to Projects

12

**\$ 5,500,000 Regulatory & alternative water supply projects**

- ❖ **Rate adjustments**
  - ❖ **Water for larger users**
  - ❖ **Sewer for all customers**

# Proposed Water Rates – March 2011

13

## Base Facility Charge (Residential 5/8")

Existing Base	Proposed Base	Increase
\$10.67	\$11.67	\$1.00

## Usage Rate Per 1,000 Gallon

Existing Usage Blocks	Existing Rates	Proposed Usage Blocks	Proposed Rates
0 to 7,000 gallons	\$1.75	0 to 5,000 gallons	\$1.75 (no increase)
7,001 to 14,000 gallons	\$1.99	5,001 to 10,000 gallons	\$2.19
		10,001 to 15,000 gallons	\$2.63
14,001 to 21,000 gallons	\$2.52	15,001 to 20,000 gallons	\$3.06
Above 21,000 gallons	\$5.24 (\$10.00)	Above 20,000 gallons	\$10.00 (restored)

# Proposed Wastewater Rates – March 2011

14

## Base Facility Charge (Residential 5/8")

Existing Base	Proposed Base	Increase
\$16.14	\$17.59	\$1.45

## Usage Rate Per 1,000 Gallon

Existing	Proposed	Increase
\$3.41	\$3.72	\$0.31

- ❖ Residential usage charges capped at 14,000 gal
- ❖ 1/3 of customers are water only

# Residential Water & Wastewater Bill Comparison

Usage (Gallons)	Existing Bill Dec 2010	Proposed Mar. 1, 2011	Increase
<u>Unsoftened</u>			
1,000	\$31.97	\$34.73	\$2.76
<b>5,000</b>	<b>\$52.61</b>	<b>\$56.61</b>	<b>\$4.00</b>
<u>Softened</u>			
<b>5,000</b>	<b>\$60.36</b>	<b>\$64.36</b>	<b>\$4.00</b>

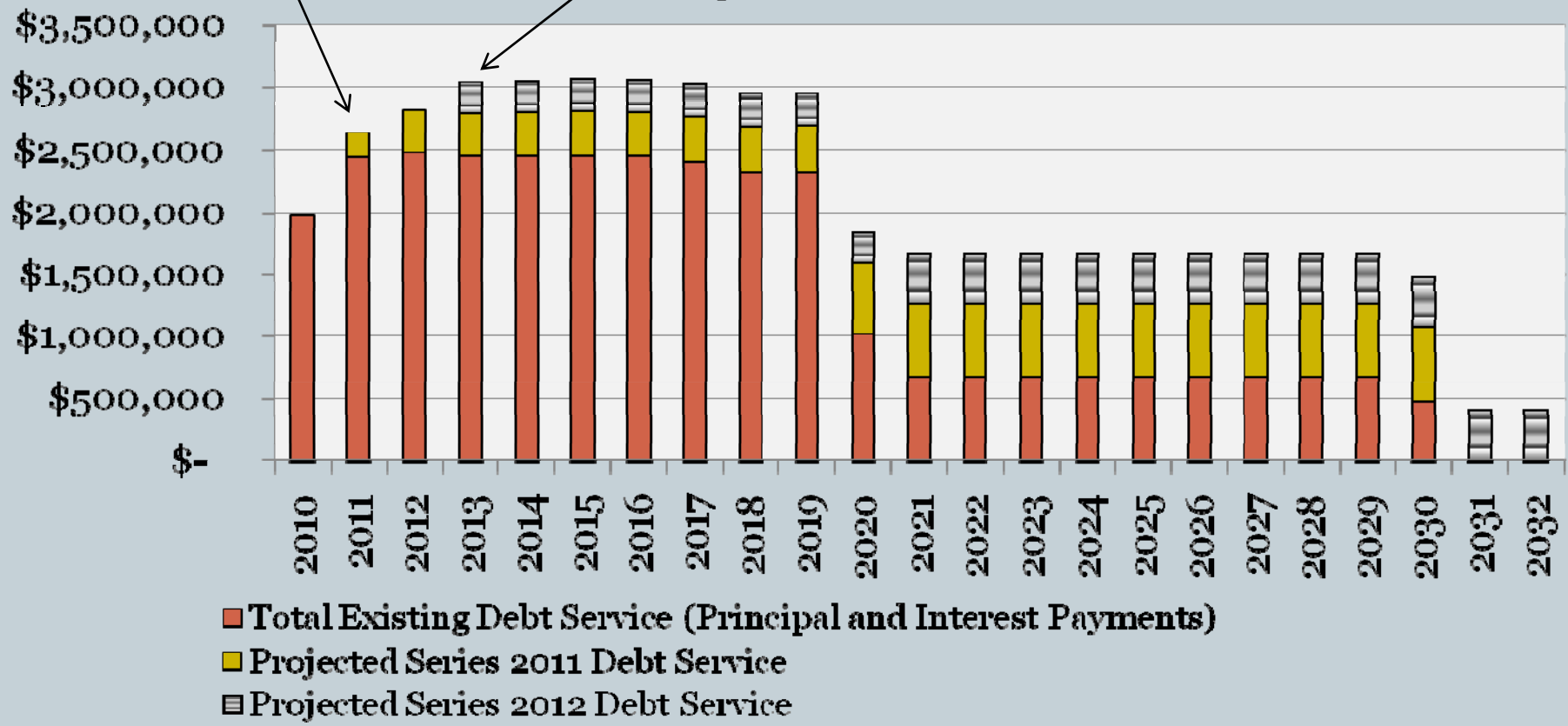
\* Residential 5/8"

# Projected Debt Schedule

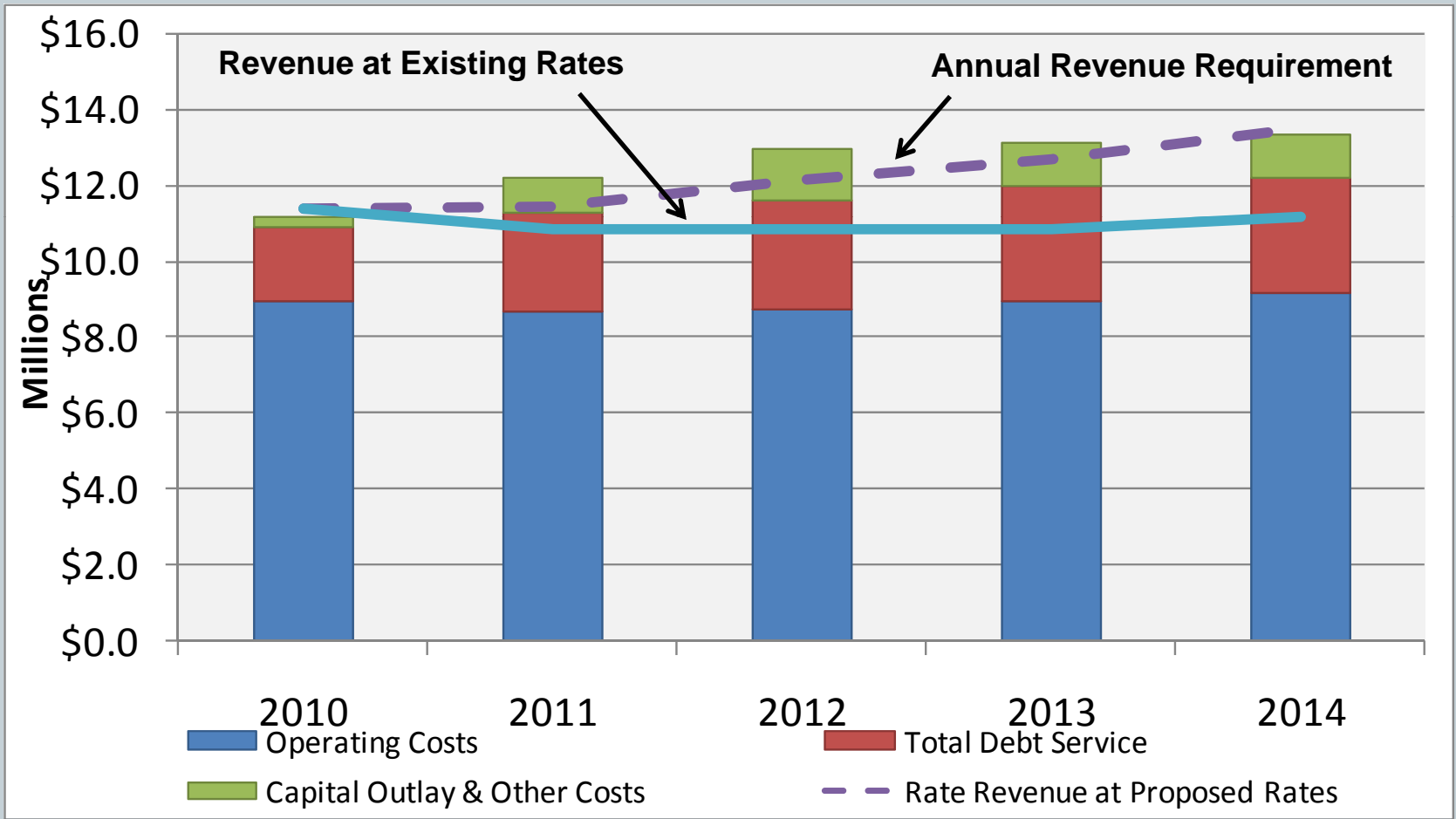
Reflects \$5.0 Million debt issued 2/1/11 for capital needs

Reflects \$3.4 Million debt issued 10/1/12 for capital needs

**Capital Financing Needs - \$8.4 M**



# Projected Combined Water and Wastewater Revenue Requirements



# Projected Utility Cash Reserves

