


**SEMINOLE COUNTY GOVERNMENT
AGENDA MEMORANDUM****SUBJECT:** Water Conservation Status Briefing**DEPARTMENT:** Environmental Services **DIVISION:** Water & Wastewater**AUTHORIZED BY:**  **CONTACT:** Liz Block **EXT.** 2121
Robert G. Adolphe, P.E., Director **Water Conservation Coordinator****Agenda Date** 04/22/03 **Regular** ☐ **Consent** ☐ **Work Session** ☐ **Briefing** ☒
Public Hearing – 1:30 ☐ **Public Hearing – 7:00** ☐**MOTION/RECOMMENDATION:**

Briefing item on water supply status report for Seminole County Environmental Services Department.

BACKGROUND:

Seminole County faces a challenge to provide adequate water supplies to a growing population while meeting the regulatory requirements of the St. Johns River Water Management District. Current and projected per capita consumption in the Northwest Service Area far exceeds guidelines established by SJRWMD. To enable future growth and development, per capita consumption must decrease in the Northwest Service Area by 30% to more closely approximate acceptable per capita usage rates.

This presentation summarizes the current water supply status, and gives an overview of current and future water conservation initiatives. Also highlighted are the reclaimed water and alternative water projects that will be recommended and brought before the Board of County Commissioners for consideration and implementation.

Reviewed by:**Co Atty:** NA**DFS:** NA**Other:** NA**DCM:** **CM:** **File No.** BESA01

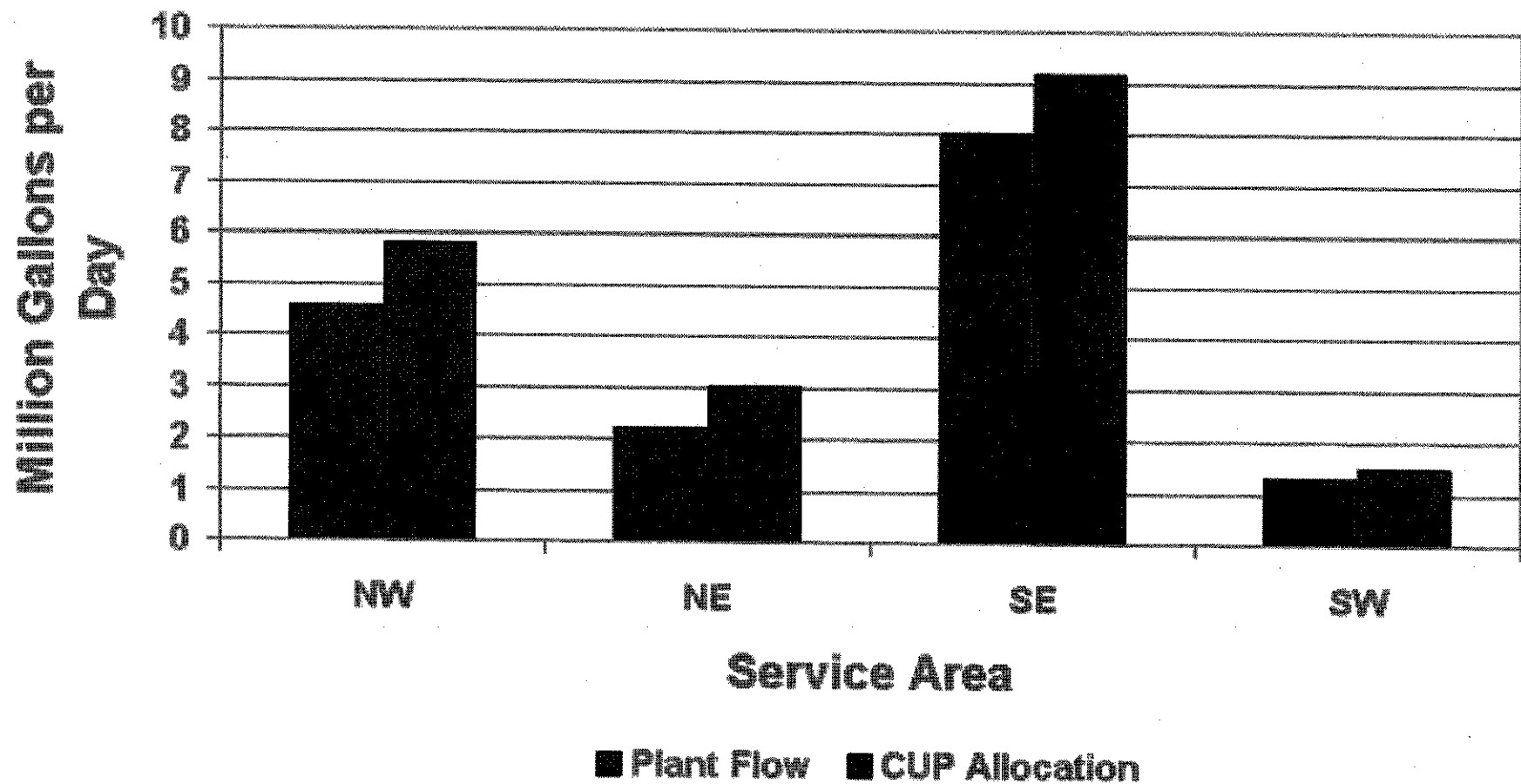
ENVIRONMENTAL SERVICES
DEPARTMENT

WATER SUPPLY STATUS REPORT

APRIL, 2003



**Running Average Daily Flow (April 2002 - March 2003)
Compared to Consumptive Use Permit Daily
Allocation**





WATER CONSERVATION

Current Program Successes

PROJECTS

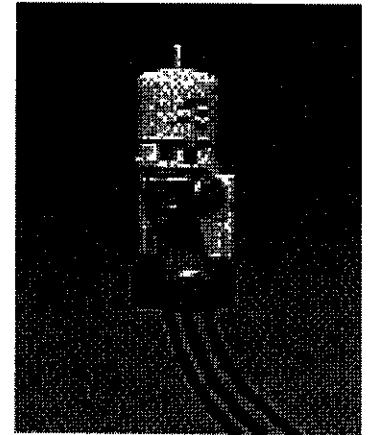
- Free Irrigation Audits
- Landscaping Workshops
- Girl Scout Water Fair
- Festivals and Events
- Classroom Presentations
- High Water Users Letters - 425
- New Subdivision Builder Contacts
- Homeowners Association Presentations
- Watering Restriction Enforcement - 4000 notices, 200 fines

GIVEAWAYS

- Showerhead Exchange
- Outdoor Cons. Kits
- Toilet Cons. Kits
- Rain Gauges
- Faucet Washers
- Toilet Leak Tests

WATER CONSERVATION

Future Initiatives



Water Conservation Plan

Reclaimed Water Ordinance

Expanded Irrigation Audit Program

Rain Sensor Program

Toilet Rebate Program

More Aggressive Rate Structure

Reclaimed Water Education Initiative

Water Conservation Ordinance

Watering Restrictions become stand-alone

Codifies Watering Restriction procedures

Requires basic water conserving irrigation features

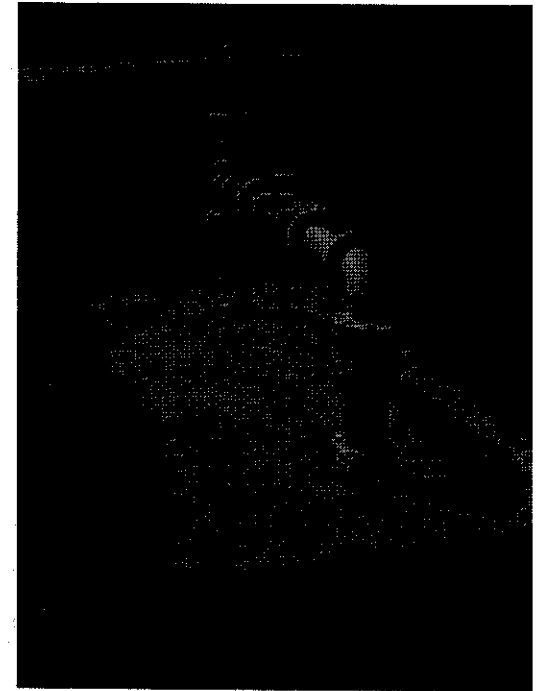
Codifies Rain Sensor requirements

RESIDENTIAL RECLAIMED WATER PROGRAM - PHASE I

RECOMMENDED RETROFIT OF HIGH WATER USE NEIGHBORHOODS

Funding Available in CIP

- Heathrow Woods
 - Bristol Park
 - East Camden
 - Chestnut Hill
- Cost \$2,200,000
Potable Offset 0.5 MGD



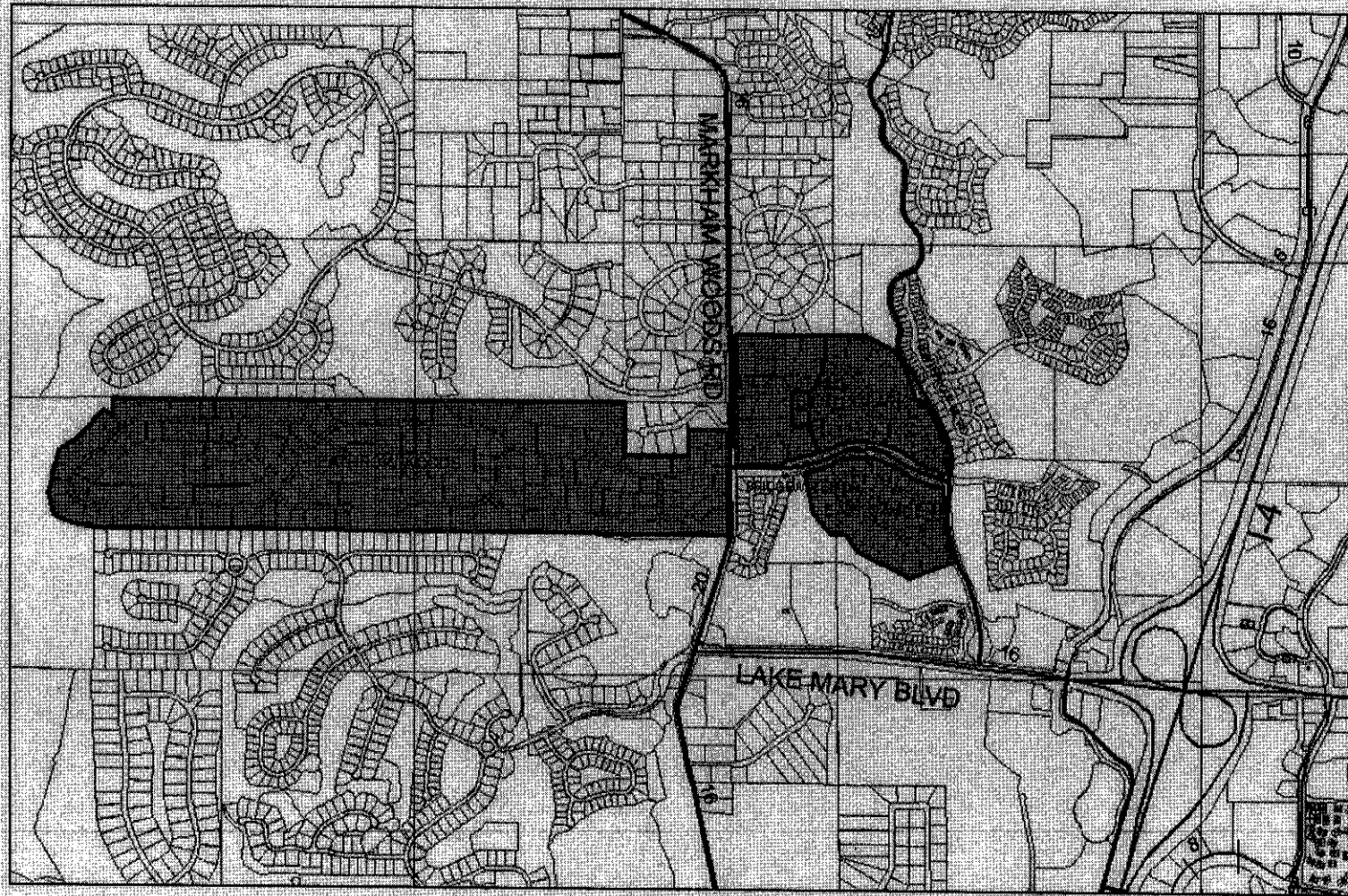
POTENTIAL DEVELOPER PARTNERSHIPS

Early Stage Developments

Cost Effective

Funding Available from Sewer Funds

EXISTING AND PROPOSED RECLAIMED WATER MAINS



— Existing Mains
— Proposed Mains

0 0.125 0.25 0.5 Miles

Prepared by GCH&C County Engineering Division 1/1/03



OVERVIEW OF RECLAIMED WATER MASTER PLAN

Alternative Water Supply Program

Augmentation of Reclaimed Water

- Construct brackish water wells at
Northwest Regional WWTP
Greenwood Lakes WWTP
- Construct surficial aquifer wells
in specific subdivisions.

Alternative Water Supply Programs

New Potable Water Supply

- After 2010, no additional fresh groundwater withdrawals - SJRWMD
- Develop surface water supply - St. Johns River
- Develop brackish water supply and desalinization - Lower Floridan Aquifer

Alternative Water Supply Program

Estimated Costs

- Augmentation of Reclaimed Water Supply
- New Potable Water Supply
 - St. Johns River & Lower Floridan Aquifer
 - Phase I - \$17 Million for 5 MGD
 - Phase II - \$55 Million for 15 MGD