



# **2015/16 – 2016/17 Budget Workshop**

May 18, 2015

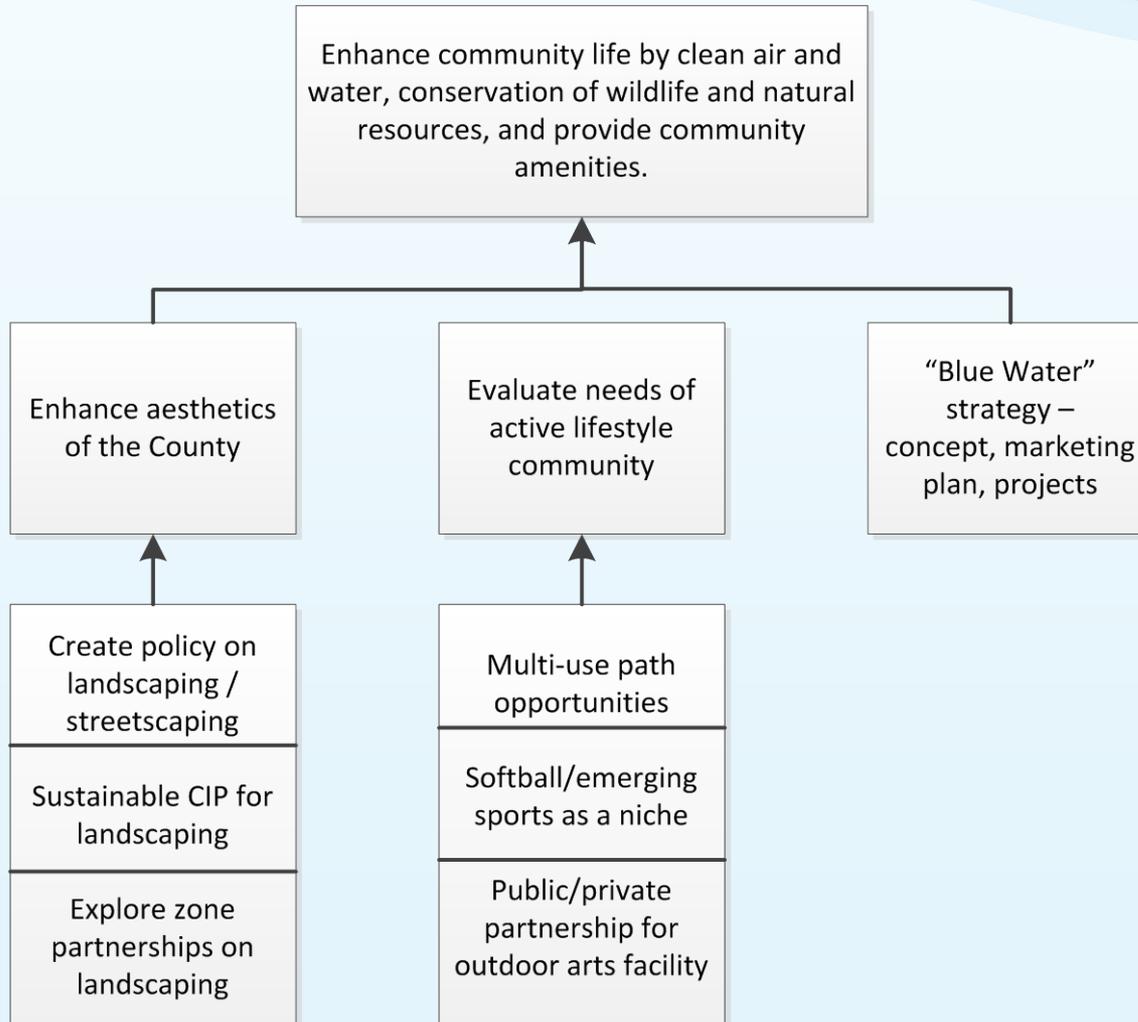


# Agenda

- Strategic Focus Areas
  - Quality of Life
  - Water Resources



# Quality of Life



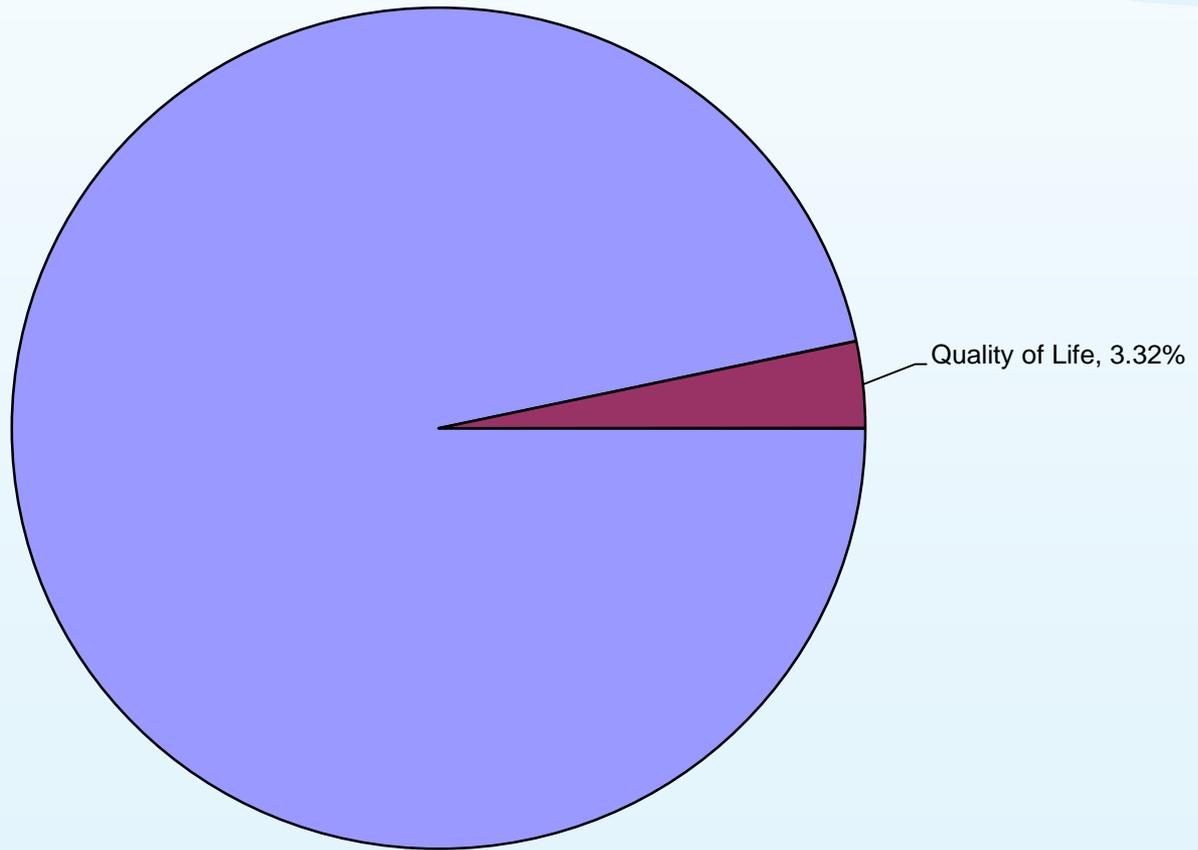


# Budgetary overview



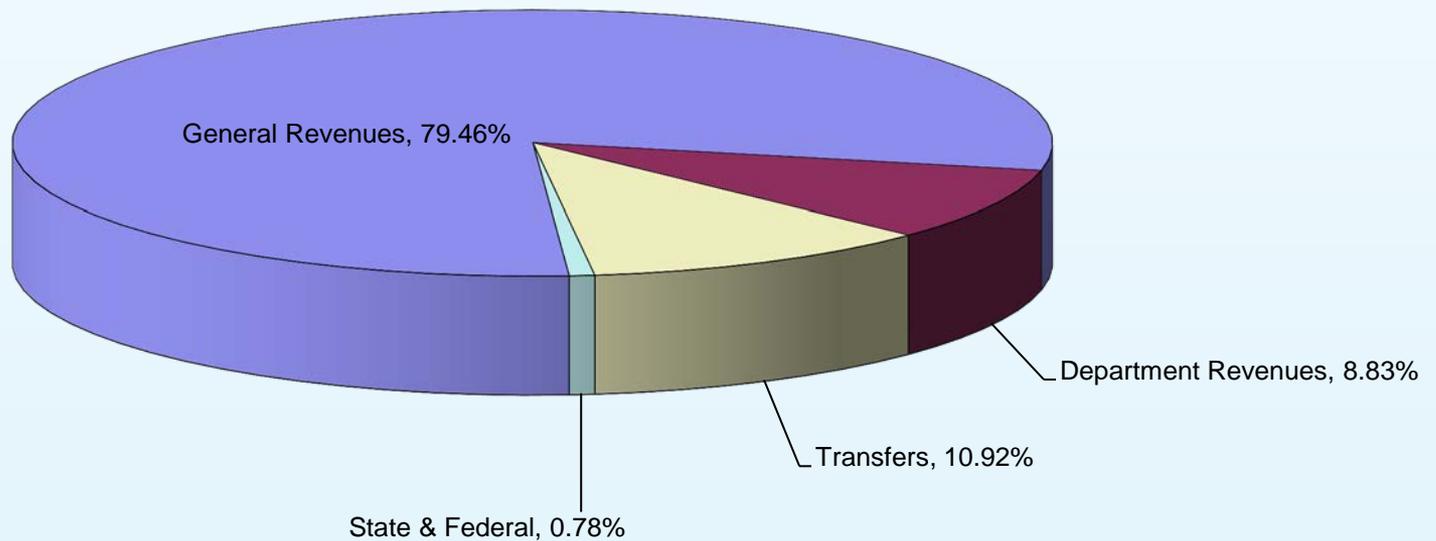
# Where does the money go?

Quality of Life Proportional to All Expenditures





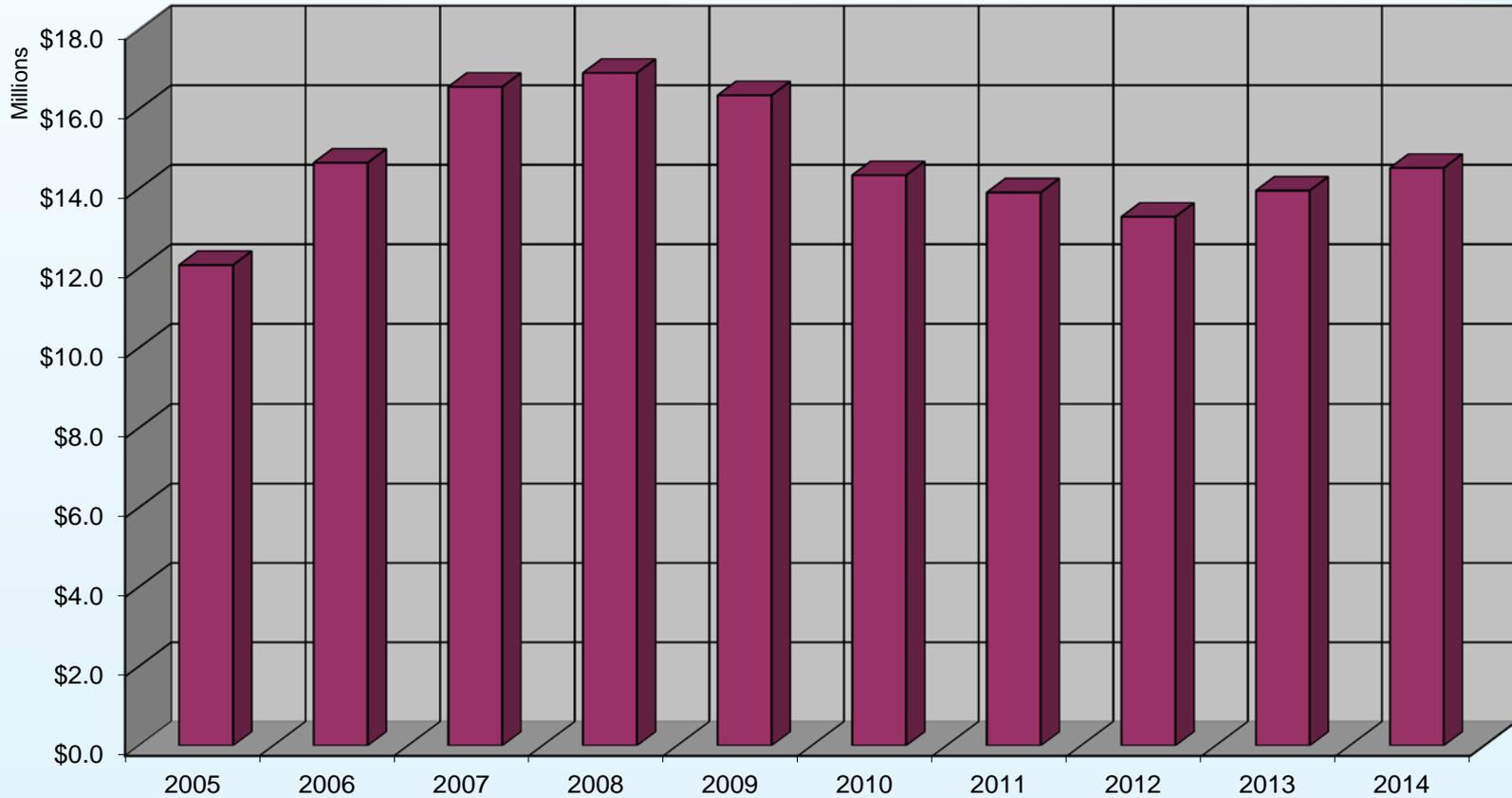
# Where does the money come from? Quality of Life Revenue Sources.





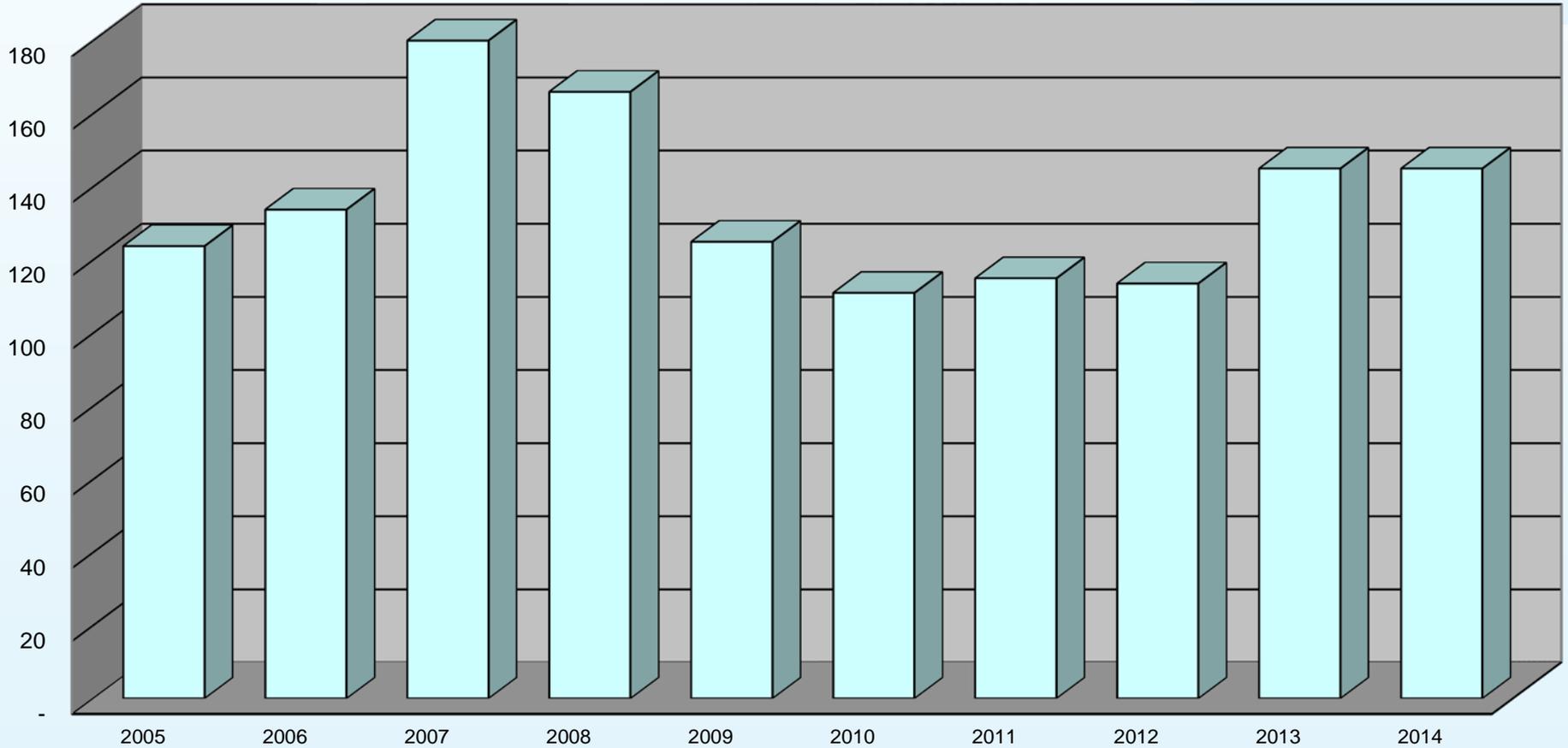
# Historical Trend

## Total Expenditures





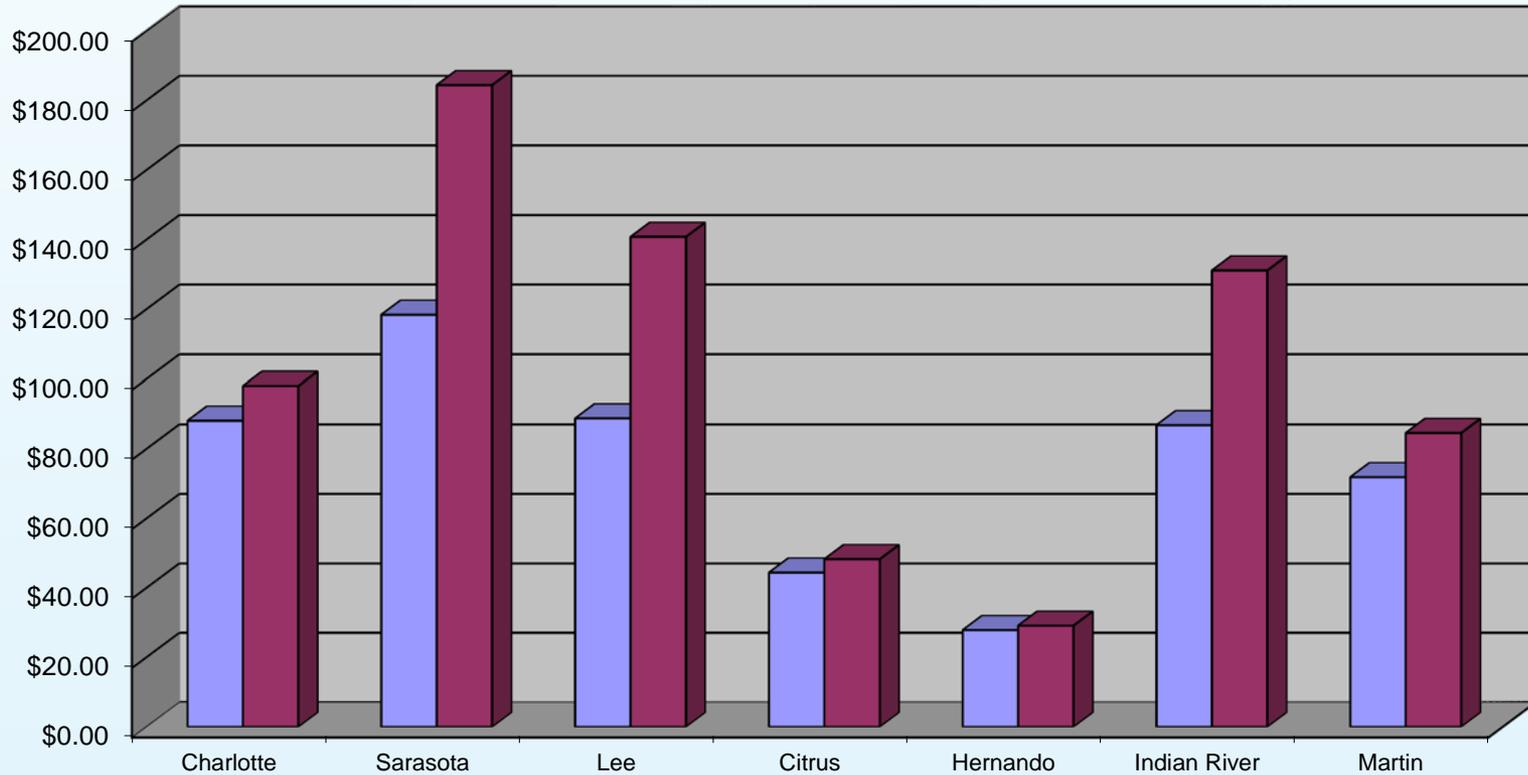
# FTE Historical Trend





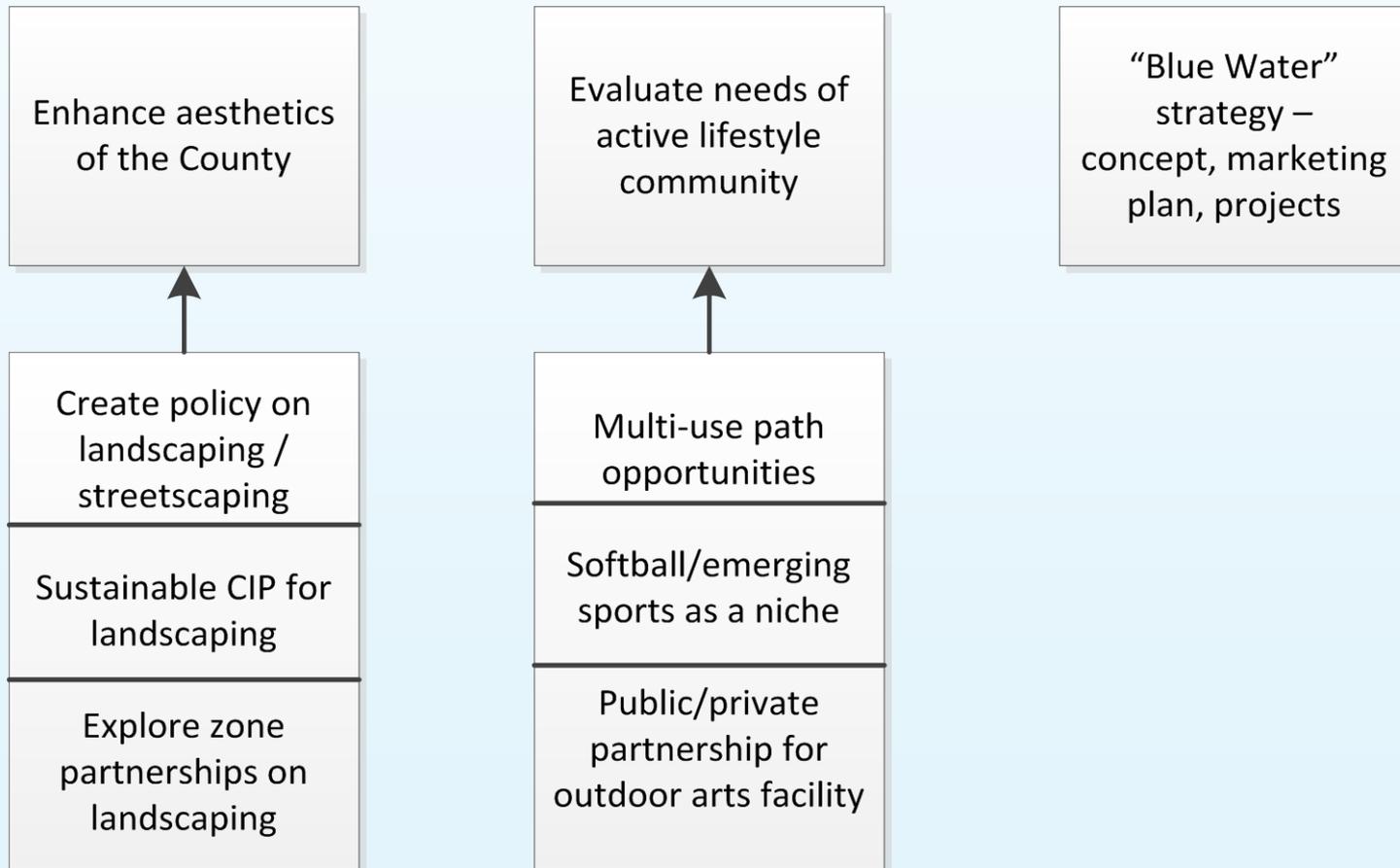
# Comparable Counties

## \$ Spent / Capita on Quality of Life





# Immediate Issues or Initiatives





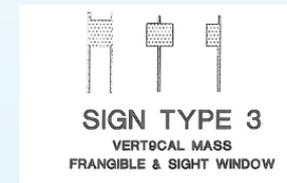
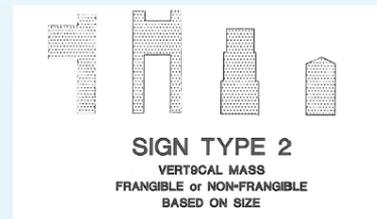
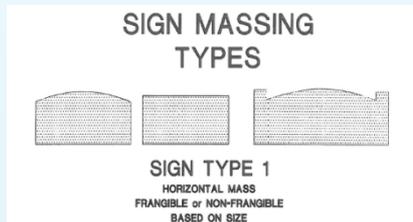
# Enhance aesthetics of the County





# Create Policy on Landscaping / Streetscaping

- Landscape Committee formed in 2012
- Developed a set of design standards for gateways



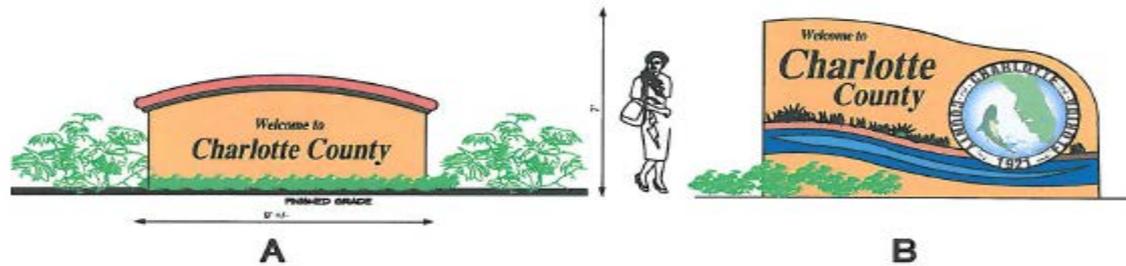


# Design Standards

**SIGN TYPE 1**  
HORIZONTAL MASS  
FRANGIBLE or NON-FRANGIBLE  
BASED ON SIZE



**DMJA**  
DAVID M. JONES, JR.  
AND ASSOCIATES, INC.  
LANDSCAPE ARCHITECTS  
AND PLANNERS

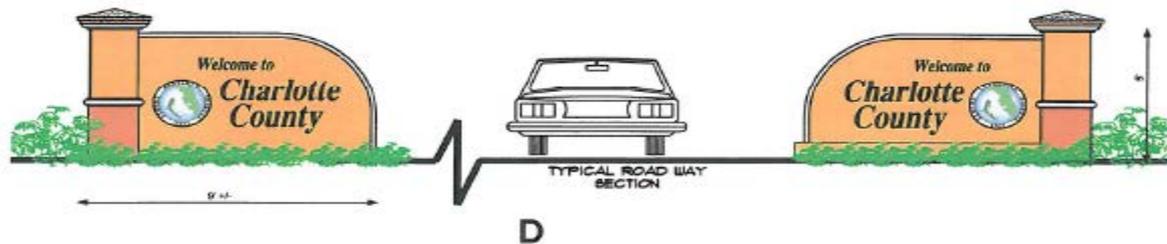


**A**

**B**



**C**

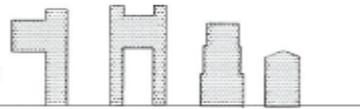


**D**



# Design Standards

**SIGN TYPE 2**  
VERTICAL MASS  
FRANGIBLE or NON-FRANGIBLE  
BASED ON SIZE



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AND PLANNERS



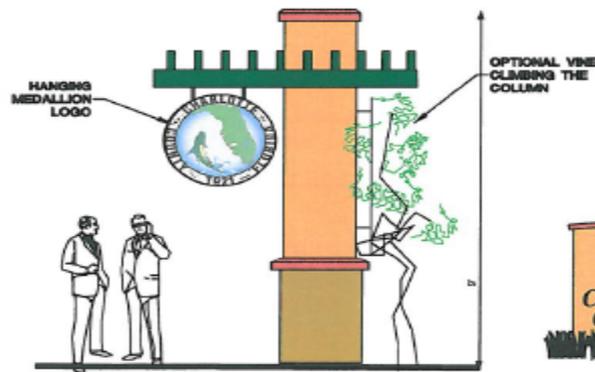
A



B



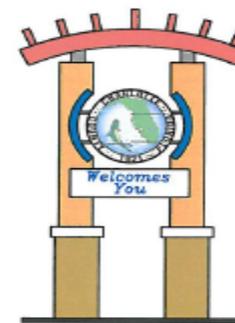
C



D



E



F



# Design Standards

**SIGN TYPE 3**  
VERTICAL MASS  
FRANGIBLE & SIGHT WINDOW

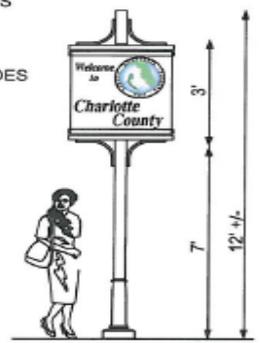


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LANDSCAPE ARCHITECTS  
AND PLANNERS

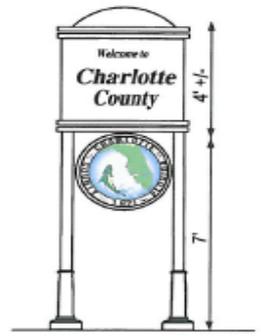


**A**

SIGN HEIGHTS  
TO COMPLY  
WITH  
APPLICABLE  
TRAFFIC CODES



**B**



**C**



# Policy Direction

- Future Capital Projects
- Existing Medians
- County Facilities



# Sustainable CIP for Landscaping

- Five Year CIP developed for 2015/16
- Funding from Capital Projects Fund (Ad Valorem)
- Funding for maintenance from Gas Tax (\$127,000 annually after 5 years)

**FY2016 Capital Improvements Budget / FY 2016 - FY 2021 Project Detail**

Project No. **c191601**

<b>GENERAL PROJECT DATA:</b>			<b>CONCURRENCY REQUIREMENTS</b>		(Y/N)	<b>PROJECT NEED</b>	<b>PROJECT SCHEDULE</b>	FY16	FY17	FY18	FY19	FY20	FY21						
Project Title:	Gateway and Entry Features		Does project add new capacity?	No		<b>CRITERIA</b>	<b>SCHEDULE</b>	1	2	3	4	1	2	3	4	1	2	3	4
Functional Area:	Beautification		Is project required to maintain level of service:			Safety	Design/Arch												
Department:	Public Works		- Within 5 years? List project in CIE	No		Mandate	Land/ROW												
Location:	County Wide		- From 6 to 10 years? Monitor Annually	No		Replace	Construct												
						Growth	Equipment												

**PROJECT DESCRIPTION:**  
To design and construct various gateway and entry features to enhance the roadways in Charlotte County.

**PROJECT RATIONALE (Include Additional LOS Detail, if necessary):**

**OPERATING BUDGET IMPACT:**  
Estimated annual maintenance cost for landscape care, irrigation electric and water, and sign maintenance.

**REPLACEMENT COUNTY PROPERTY NO.:**

		(1)	(2)	(3)	<b>Calc. for FY16</b>														
	<b>Prior Actual</b>	<b>Est FY15</b>	<b>Orig. Est FY16</b>	<b>c/o to FY16</b>	<b>New \$ FY16</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>	<b>FY19</b>	<b>FY20</b>	<b>FY21</b>	<b>FUTURE</b>	<b>Total</b>						

<b>EXPENDITURE PLAN (000'S)</b>																
Design/Arch/Eng					6	6	39	42	13	6	21			127	FY16	US 41 at Sarasota County line
Land (or ROW)															FY16	Toledo Blade @ Sarasota County Line
Mitigation Land															FY17	King's Highway at I-75 off-ramp
Construction					238	238	328	347	108	48	176			1,245	FY17	King's Highway at DeSoto County line
Internal Costs					10	10	13	14	4	2	7			50	FY18	Piper Road at Charlotte County Airport entrance
Landscaping															FY18	Jones Loop at I-75 off-ramp
Interest															FY19	Burnt Store Road at Lee County line
Other Fees & Costs															FY19	Harborview Boulevard at I-75 off-ramp
<b>Total Project Cost</b>					<b>253</b>	<b>253</b>	<b>380</b>	<b>403</b>	<b>125</b>	<b>56</b>	<b>204</b>			<b>1,421</b>	FY20	US 41 at Lee County line

<b>FUNDING PLAN (000'S)</b>																
Other					253	253	380	403	125	56	204			1,421	FY20	SR 776 at Sarasota County line
Road Impact Fees															FY21	US 17 at I-75 off-ramp
Sales Tax															FY21	Tucker's Grade at I-75 off-ramp
Grants															FY21	US 17 at DeSoto County line
Developer Contribution																
Gas Tax																
<b>TOTAL FUNDING</b>					<b>253</b>	<b>253</b>	<b>380</b>	<b>403</b>	<b>125</b>	<b>56</b>	<b>204</b>			<b>1,421</b>		

<b>LOAN REPAYMENT SCHEDULE (000'S)</b>																
Gas Tax																
Impact Fees																
<b>TOTAL LOAN REPAYMENT</b>																

<b>OPERATING BUDGET IMPACT (000'S)</b>																
Personal Svc.																
Non-personal							25	34	41	22	5	31	158			
Capital																
<b>Total Operating</b>							<b>25</b>	<b>34</b>	<b>41</b>	<b>22</b>	<b>5</b>	<b>31</b>	<b>158</b>			



# Landscape Maintenance Costs

	<b>2013/14 Actuals</b>	<b>2014/15 Budget</b>	<b>2015/16 Proposed</b>
Landscaping	15,618	60,000	91,178
Lawn Maintenance	482,962	286,973	684,744
Specialty Mowing	587,227	638,032	1,186,566
Right of Way Mowing	681,850	784,427	790,732
<b>Total</b>	<b>1,767,657</b>	<b>1,769,432</b>	<b>2,753,220</b>



# Landscape Maintenance Costs

- Improved Economy - Higher contract costs
- Increased mowing cycles
- Increased level of scope
- Additional areas added

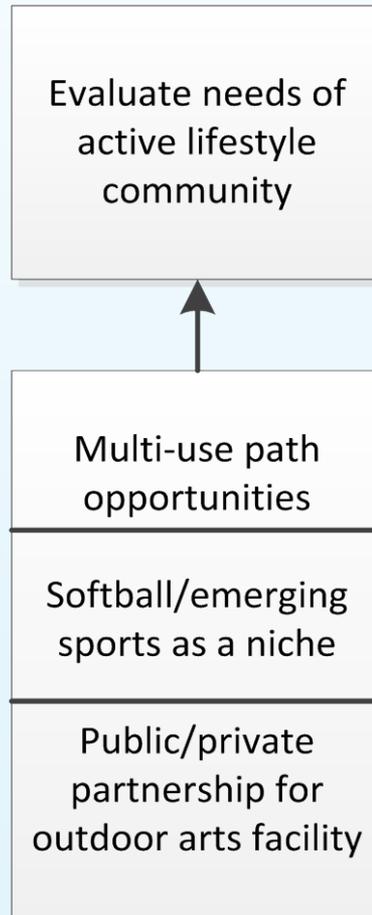


# Explore Zone Partnerships on Landscaping

- Look to other municipalities to determine how they partner with private organizations
- We currently have MSBU funded landscaping/maintenance projects
- We also have memorandum of agreements with property owners associations where they fund and maintain landscape projects once constructed



# Active Lifestyle Community





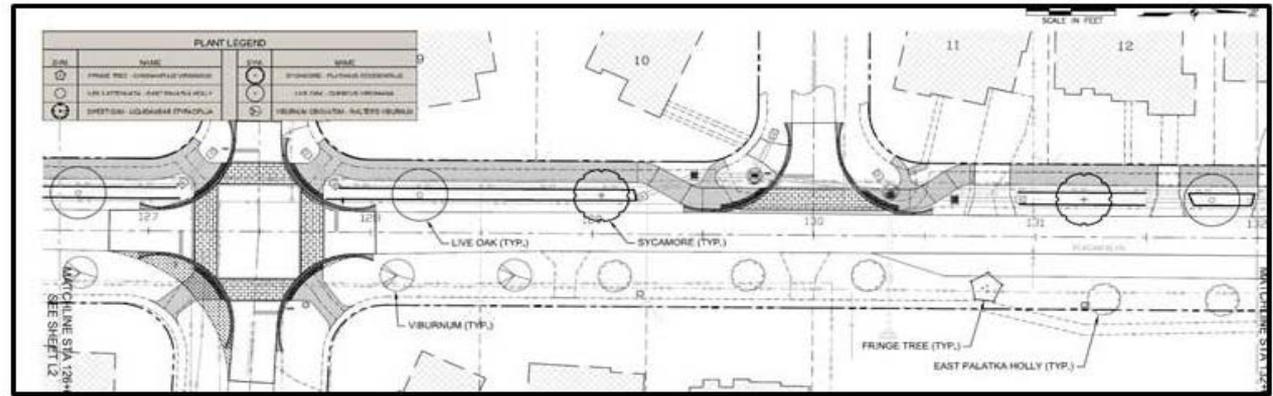
# Multi-use Path Opportunities

- Past 1% Local Sales Tax Projects
  - 1998: \$11.8 million for sidewalks
  - 2002: \$5.7 million for sidewalks
  - 2008: \$7.9 million for sidewalks
- Current 1% Local Sales Tax Projects
  - 2014: \$3.8 million for multi-use paths

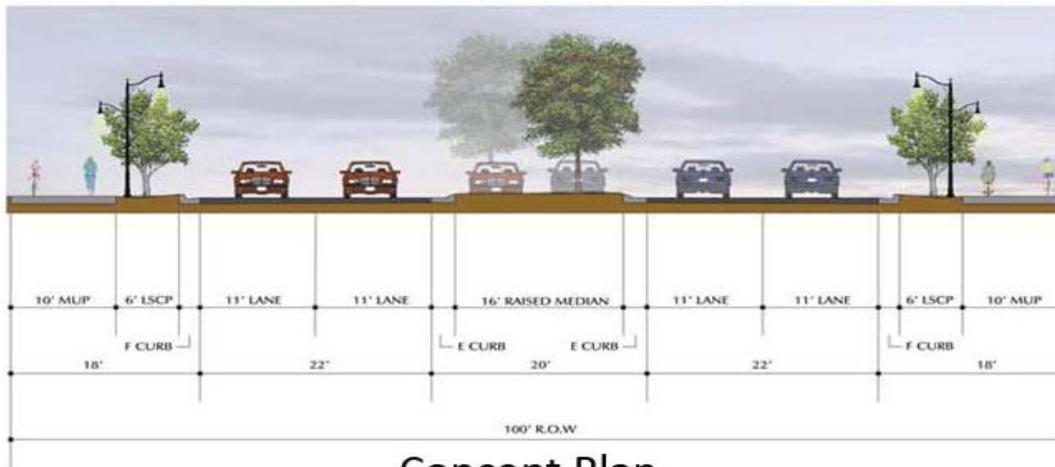


# Multi-use path opportunities

- Current Multi-use projects underway
  - Under Construction
    - Elkcam from US41 to Midway and Gertrude from Elkcam to Caring Way
  - Under Design and funded for construction
    - Harbor from US41 to Olean
    - West Tarpon (US41 to Ambrose) and Ambrose (West Tarpon to Elkcam)
    - Gertrude (Caring Way to Aaron) Aaron (Gertrude to Harbor)
- Other potential projects
  - Work with MPO and use Parks & Recreation Master Plan to identify highest needs for future multi-use path projects



## Design Plans



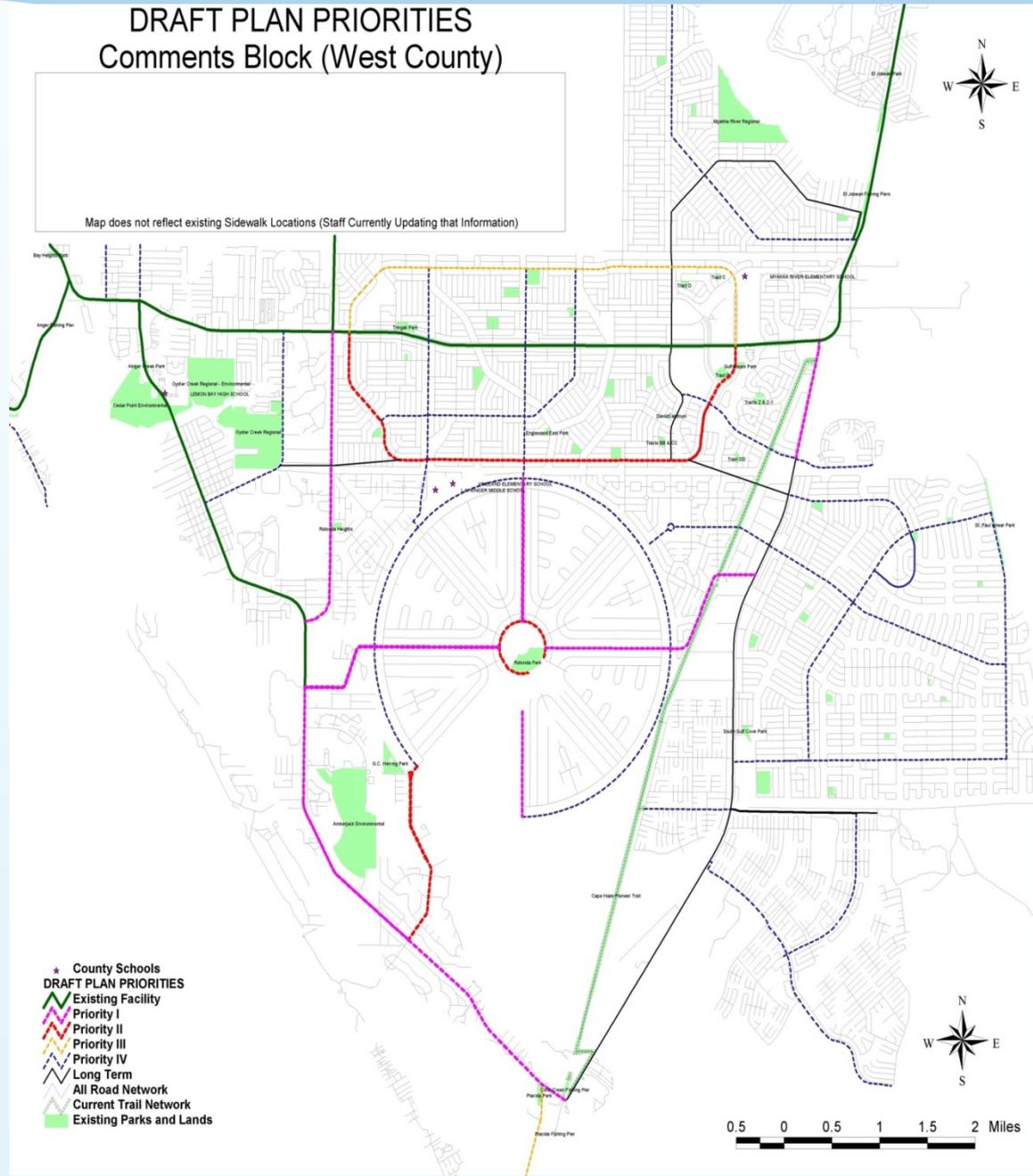
## Concept Plan



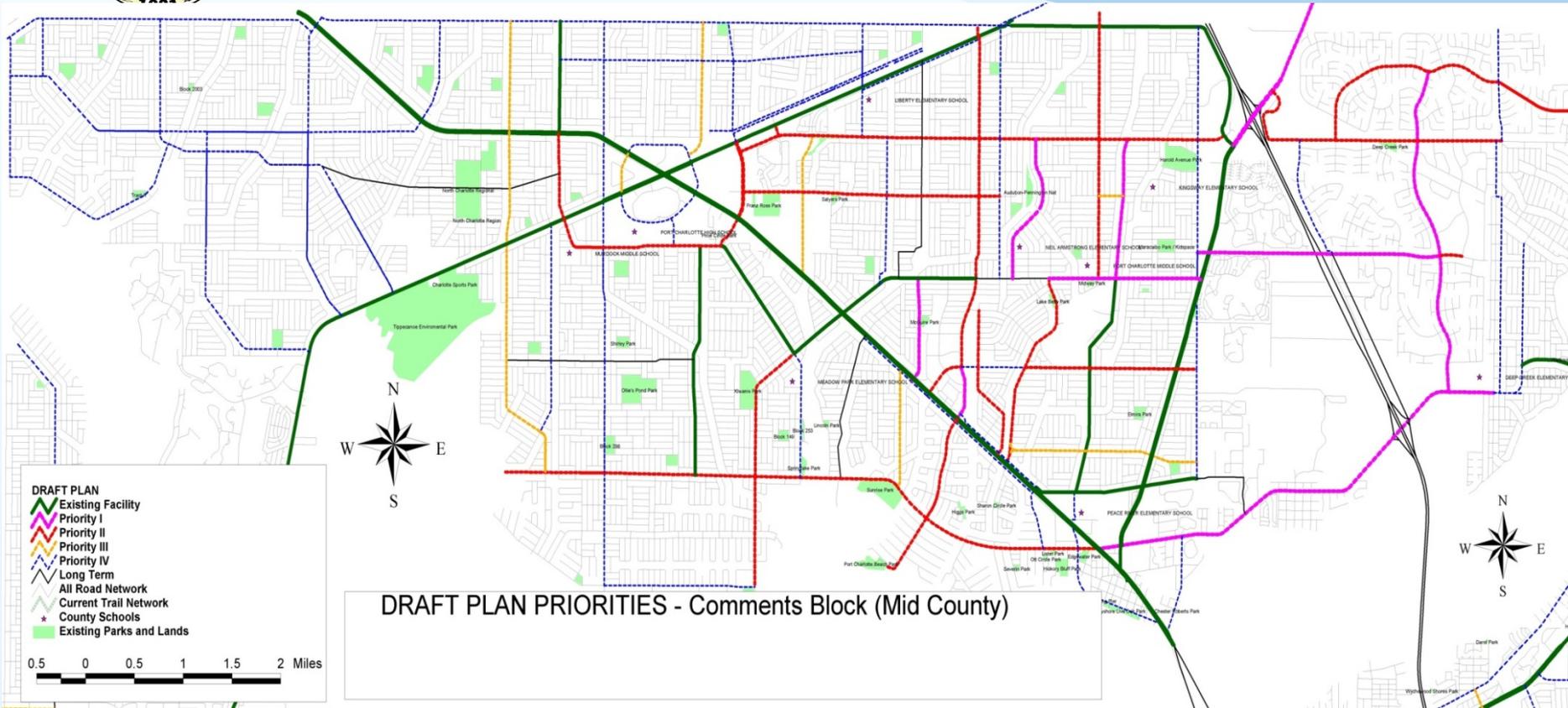
# DRAFT PLAN PRIORITIES

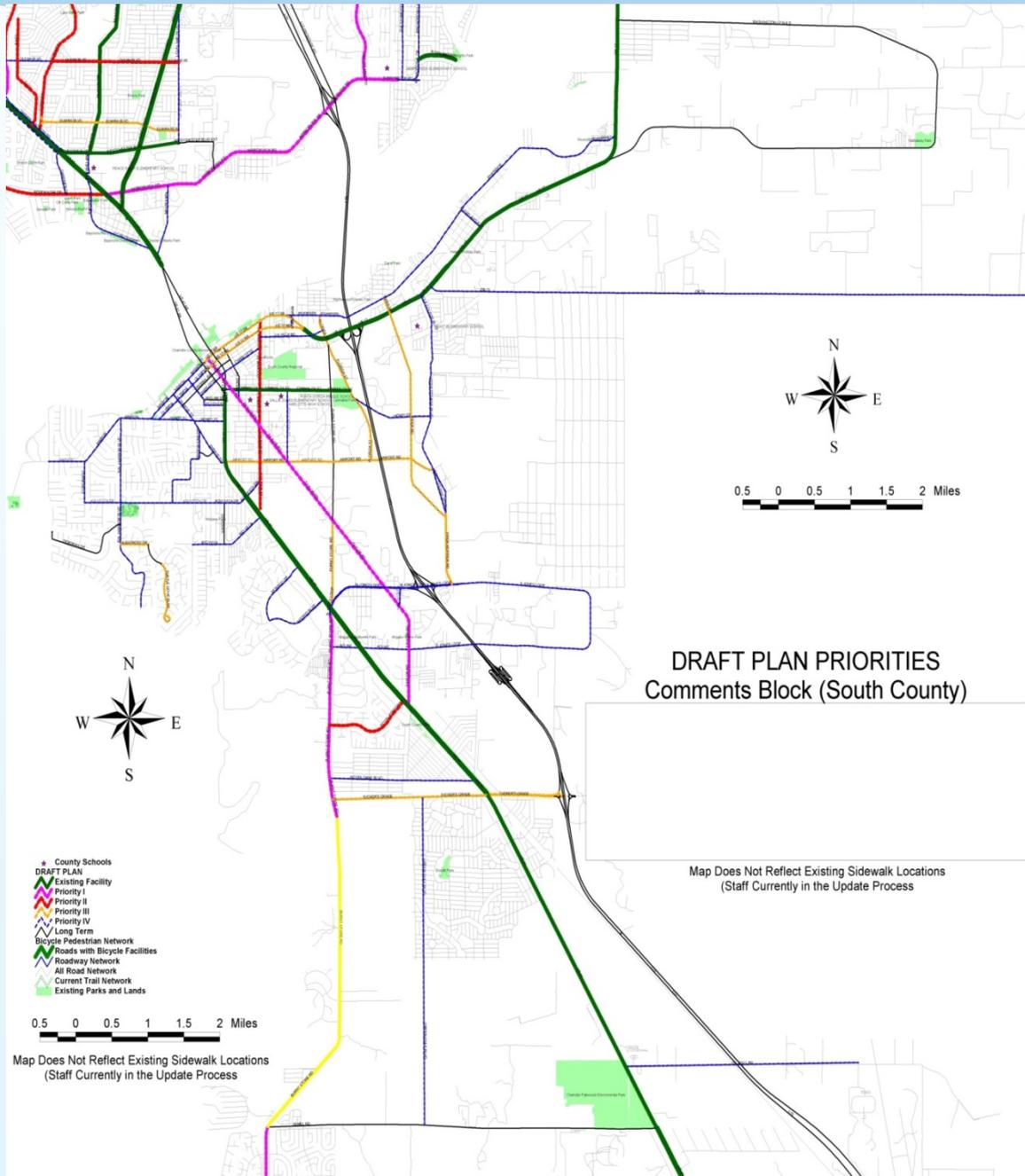
## Comments Block (West County)

Map does not reflect existing Sidewalk Locations (Staff Currently Updating that Information)



- \* County Schools
- DRAFT PLAN PRIORITIES**
- Existing Facility
- Priority I
- Priority II
- Priority III
- Priority IV
- Long Term
- All Road Network
- Current Trail Network
- Existing Parks and Lands







# Softball/Emerging sports niche

- Parks & Recreation Master Plan
  - Gather input from Community on needs, wants, and desires for facilities & programs
  - Prioritize needs into Master Plan, to help give guidance on facility and programming



# Softball/Emerging sports niche

- Niche/Emerging sports are consumer driven
  - 5 years ago, we didn't even know about pickleball, now it is the fastest growing sport in Florida.
  - Need to identify the best use of finite resources
- Difficult to compare Charlotte County with other communities
  - Different demographics, different facilities, different economic situations.





# Public/Private Partnership for Outdoor Arts Facility

- CIP project to purchase a Mobile Stage for events and various County programs (2017)
- Need further direction on expectations



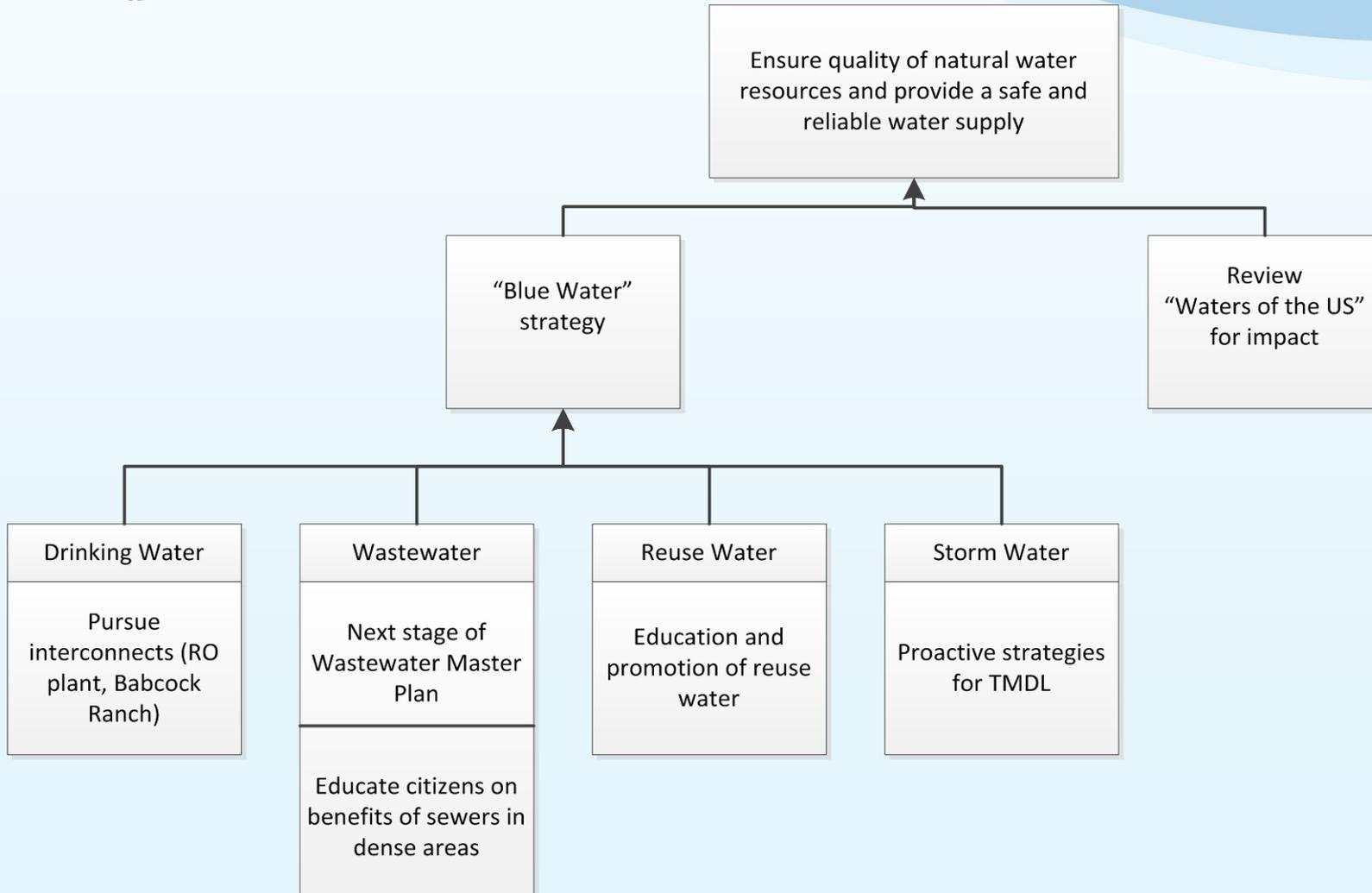


# BCC Focus Areas

## Water Resources



# Water Resources



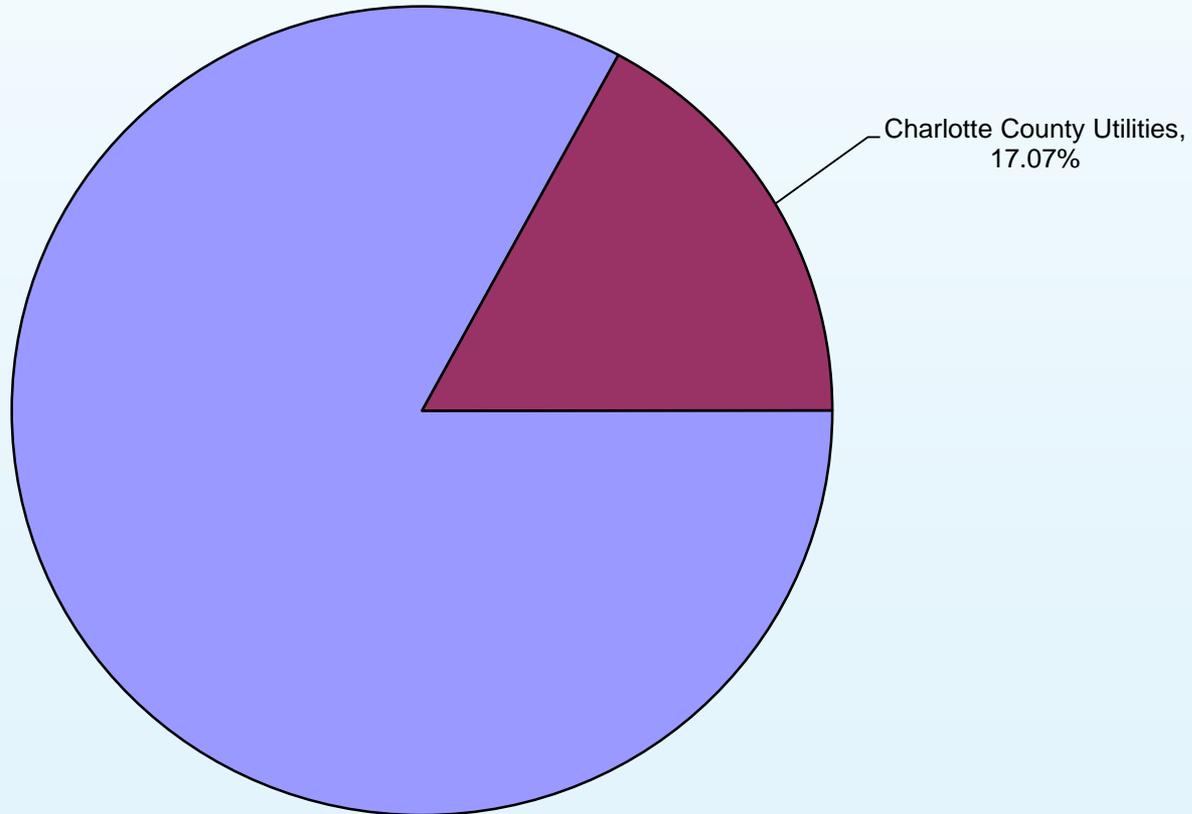


# Budgetary overview



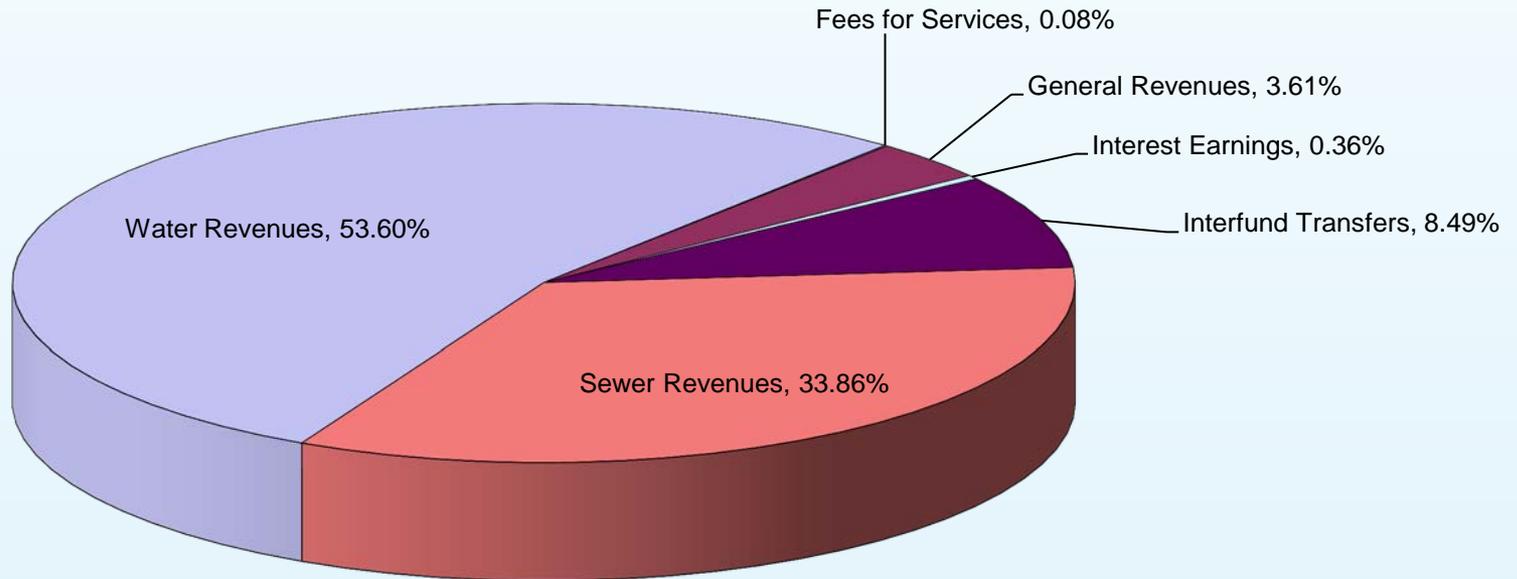
# Where does the money go?

Water Resources Proportional to All Expenditures





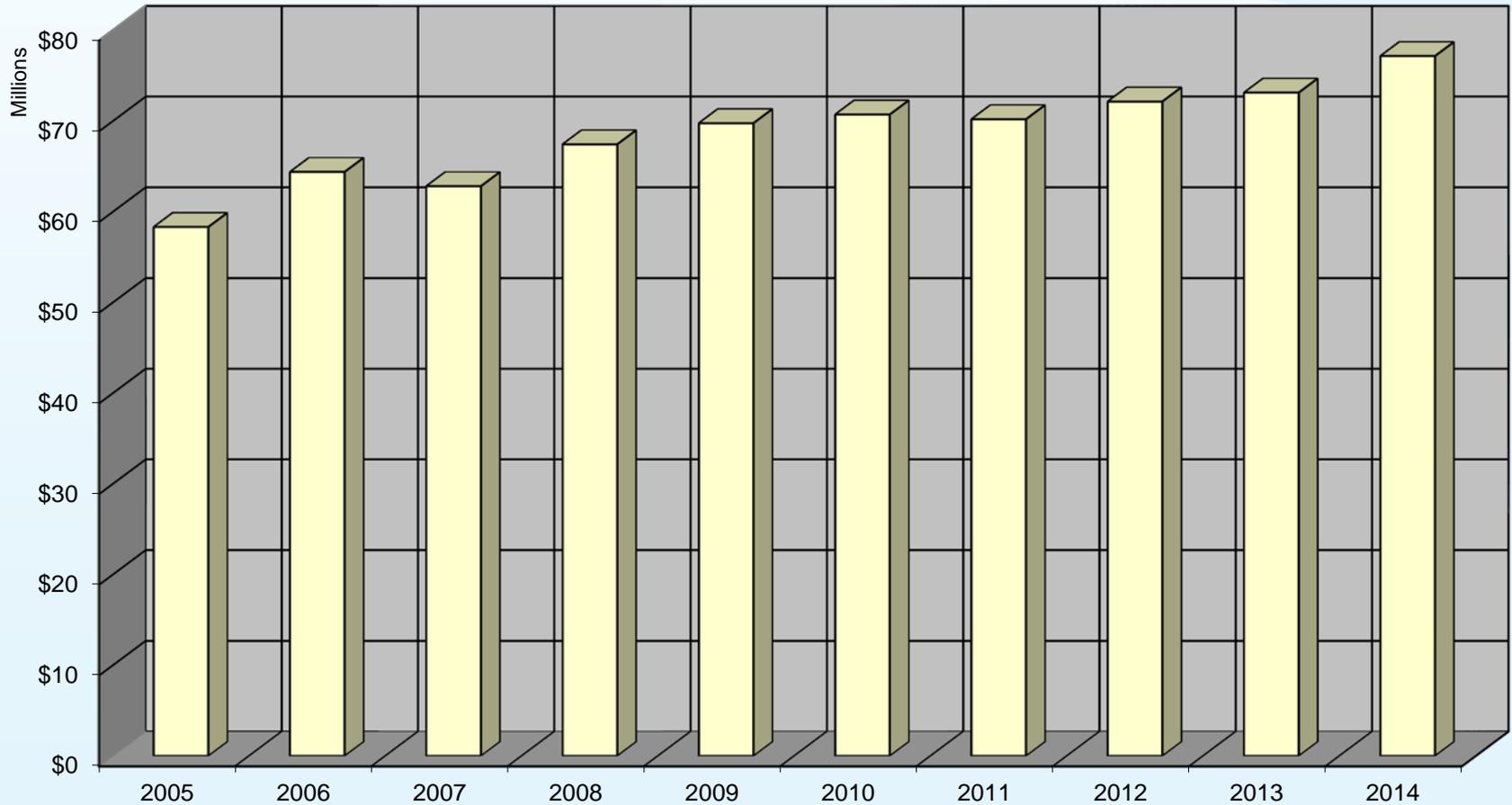
# Where does the money come from?





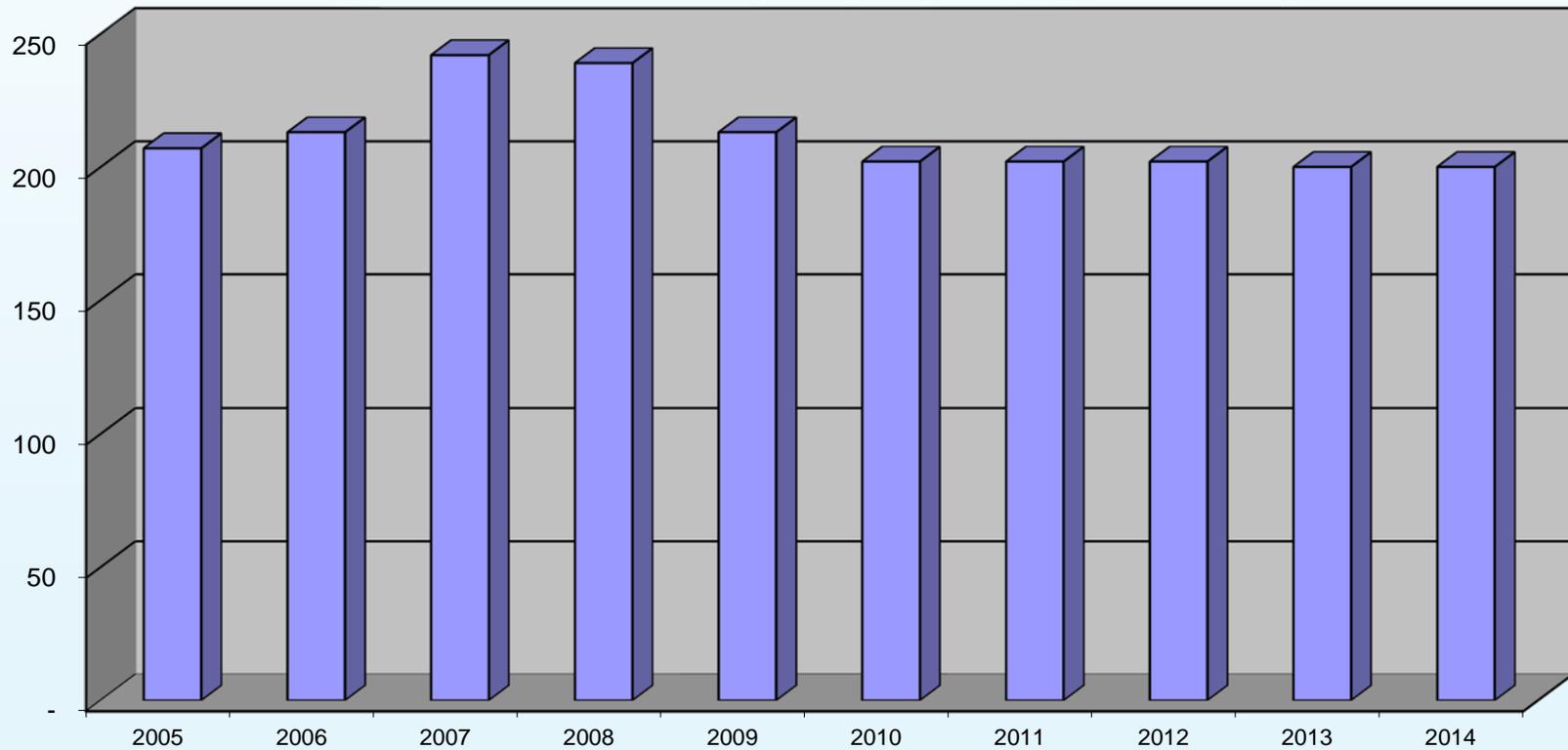
# Historical Trend

## Total Expenditures





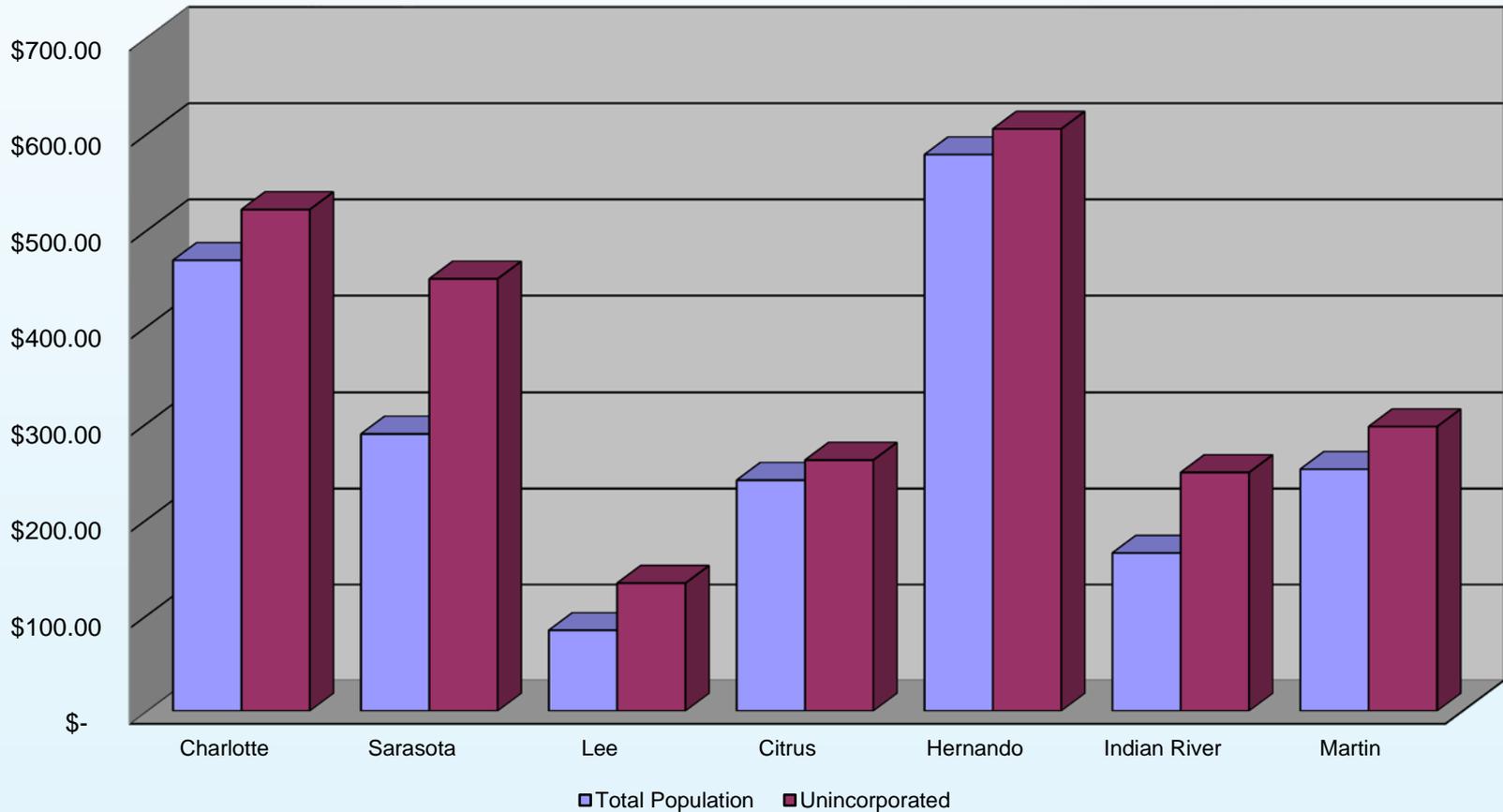
# FTE Historical Trend





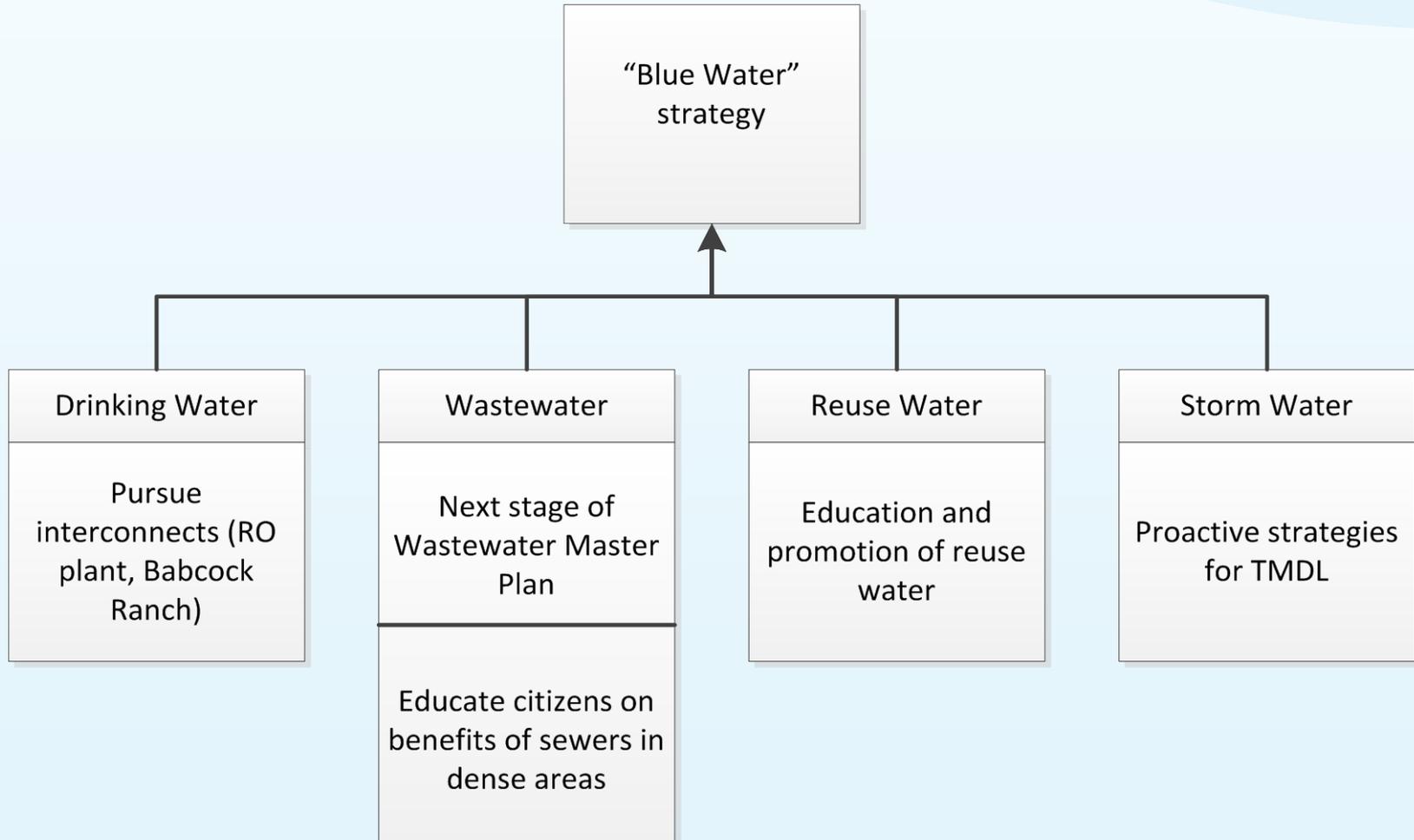
# Comparable Counties

## \$ Spent / Capita on Water Resources





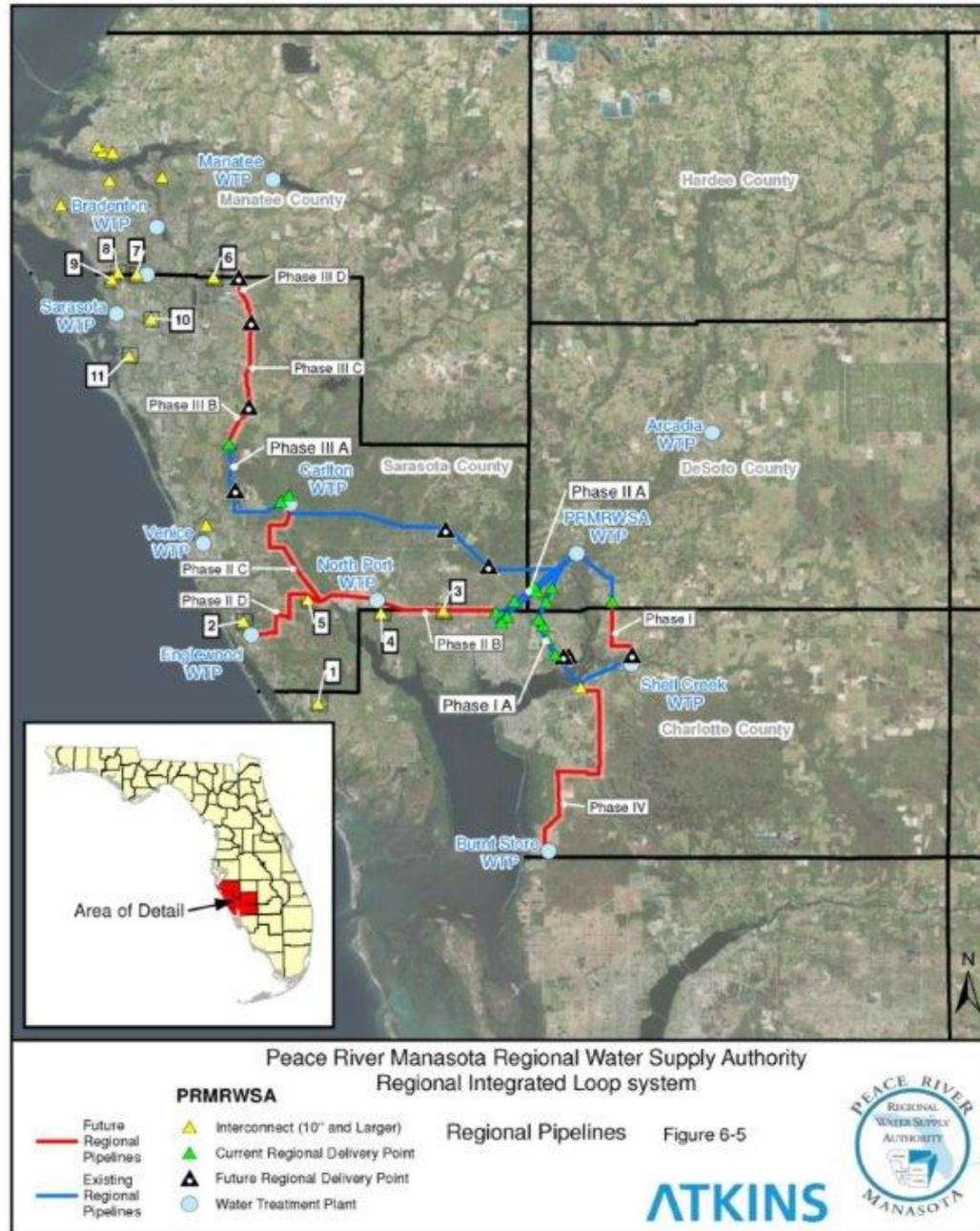
# Immediate Issues or Initiatives

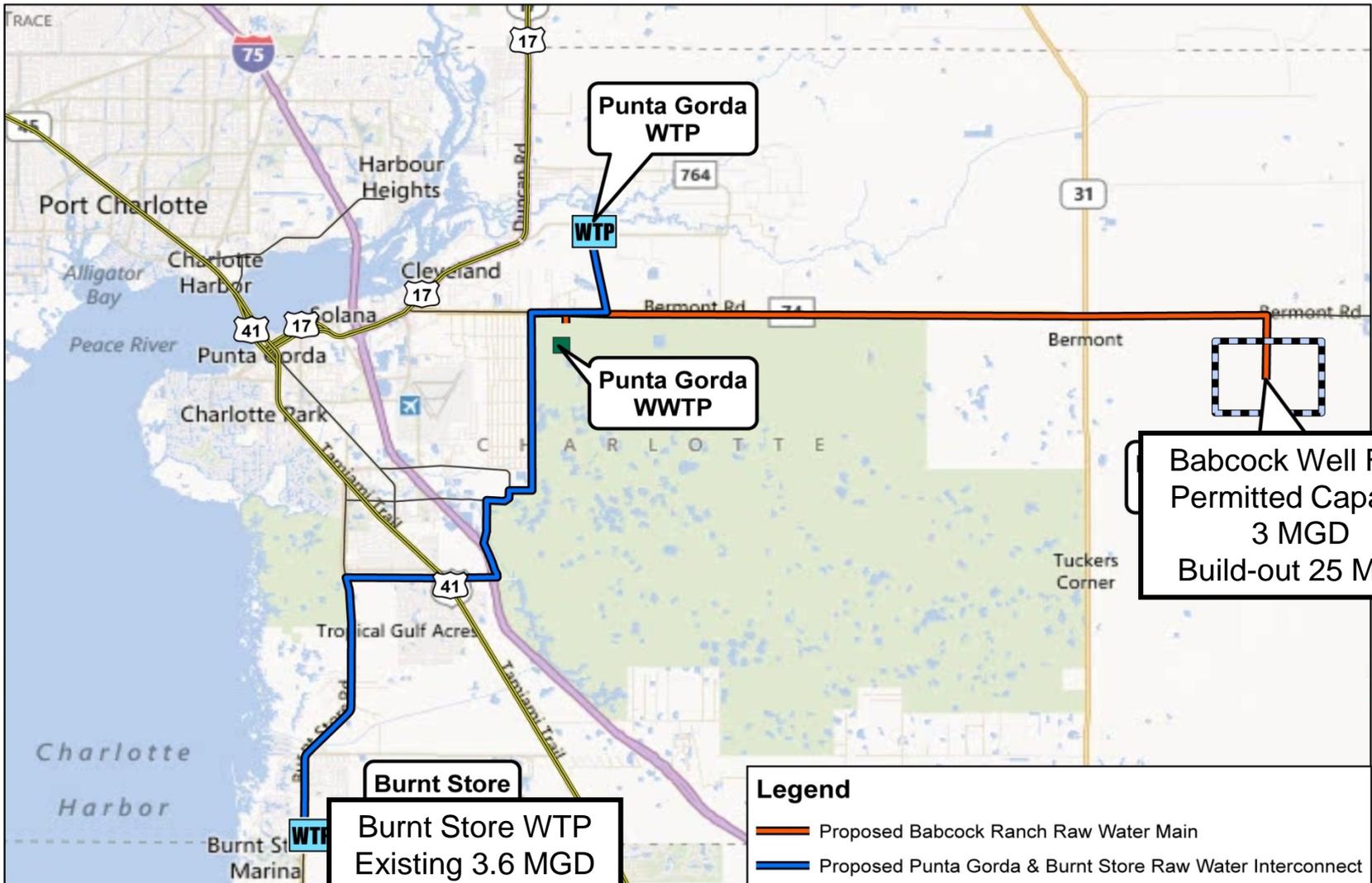




# Blue Water Strategy

## Drinking Water





**Burnt Store**  
 Burnt Store WTP  
 Existing 3.6 MGD  
 Build-out 6.7 MGD

**Babcock Well Field**  
 Permitted Capacity  
 3 MGD  
 Build-out 25 MGD

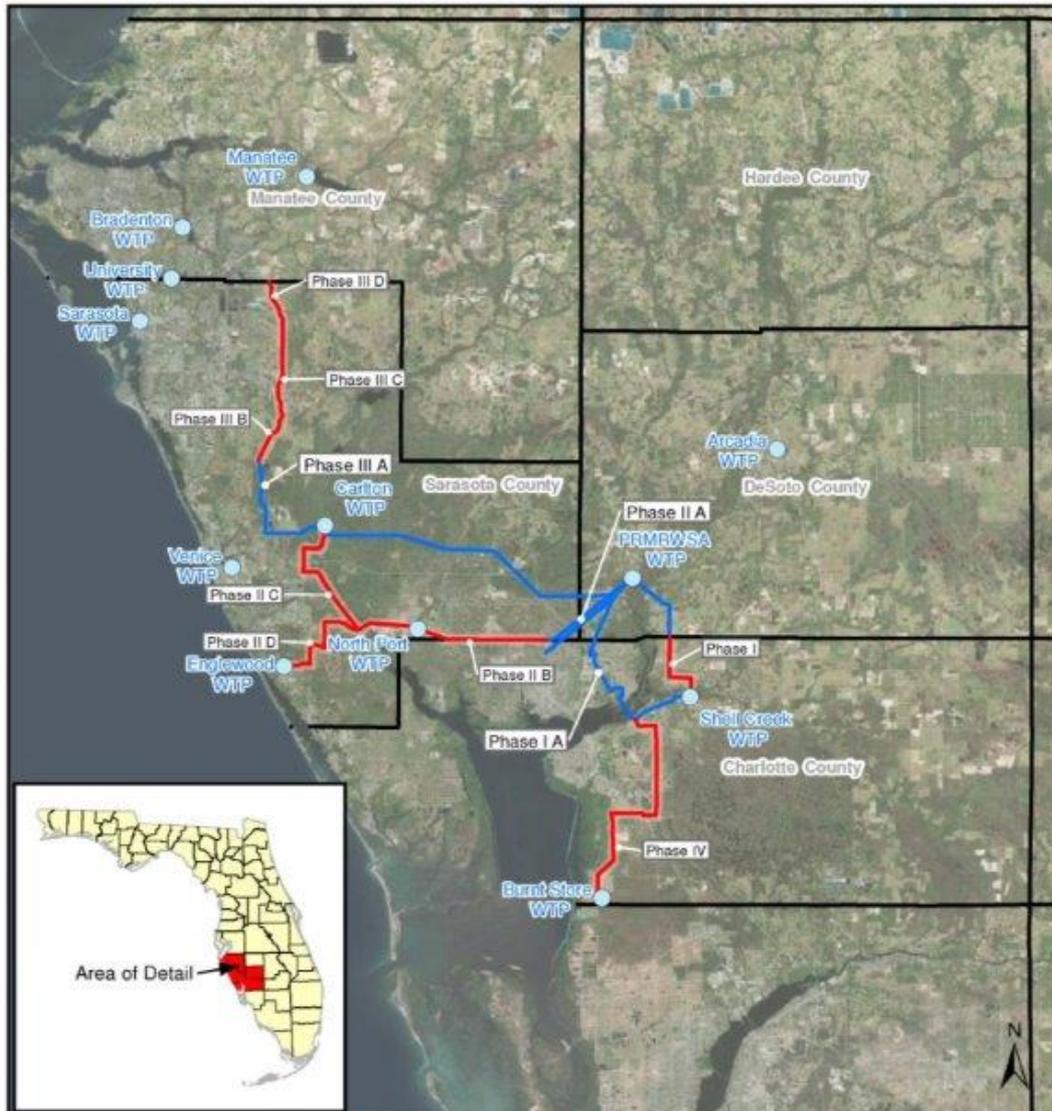
**Legend**

- Proposed Babcock Ranch Raw Water Main
- Proposed Punta Gorda & Burnt Store Raw Water Interconnect



**Charlotte County Utilities**  
 - Proposed Punta Gorda WTP & Burnt Store WTP Interconnect  
 - Babcock Ranch Raw Water Pipeline Route Alternatives





Peace River Manasota Regional Water Supply Authority  
Regional Integrated Loop system

**PRMRWSA**

— Future Regional Pipelines  
— Existing Regional Pipelines

Regional Pipelines

Figure 6-2



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# Regional Connectivity

## Current Regional Vision for 2025

Phase Number	Total Length Linear Feet	Pipeline Diameter	Estimated Cost Including Pumping & Storage Facilities
Phase I	33,555	24"	\$11,500,000
Phase 1A (Complete)	48,800	24"	\$20,218,000
Phase II (Complete)	36,527	42"	\$13,530,000
Phase IIB	49,278	36"	\$27,658,000
Phase IIC	76,635	36"	\$37,294,000
Phase IID	66,305	24"	\$27,186,000
Phase IIIA (Complete)	44,790	48"	\$31,703,000
Phase IIIB	73,775	48"/60"	\$55,009,000
Phase IVA	30,750	24"	\$14,761,000
Phase IVB	83,855	36"	\$41,774,000
<b>Total</b>	<b>544,270</b>		<b>\$280,633,000</b>
<b>Less Work Completed</b>	<b>(130,117)</b>		<b>(\$65,451,000)</b>
<b>Remaining Total</b>	<b>414,153</b>		<b>\$215,182,000</b>

## Proposed Regional Vision for 2035

Phase Number	Total Length Linear Feet	Pipeline Diameter	Estimated Cost Including Pumping & Storage Facilities
Phase I	33,555	24"	\$14,000,000
Phase IIB (updated)	49,278	36"/42"	\$41,951,000
Phase IIC	76,635	36"	\$49,682,000
Phase IID	66,305	24"	\$34,599,000
Phase IIIB	22,300	48"	\$26,967,000
Phase IIIC	33,200	42"	\$35,952,000
Phase IIID	19,000	24"	\$15,383,000
Phase IV (New)	81,311	24"	\$27,505,000
<b>Total</b>	<b>381,584</b>		<b>\$246,039,000</b>

Estimates are 2014 costs

Recommended High Priority





# Punta Gorda WTP, Burnt Store WTP, and Babcock Wellfield Interconnect

- A 22 mile connection between Punta Gorda WTP & Babcock Wellfield
- A 21 mile connection between Burnt Store WTP & Punta Gorda WTP
- Blend with Punta Gorda to address high TDS
- Emergency backup supply for Punta Gorda's system.
- Redundancy and emergency backup supply for the Burnt Store WTP
- Emergency backup supply for central Port Charlotte on north side of Peace River through interconnect.
- Connect Babcock Ranch Wellfield with all of Charlotte County for future growth and emergency supplies.

Cost: \$22.5mil Punta Gorda & Burnt Store Connection

\$57.6mil Babcock Wellfield to Punta Gorda WTP (Phase 1) <sup>48</sup>

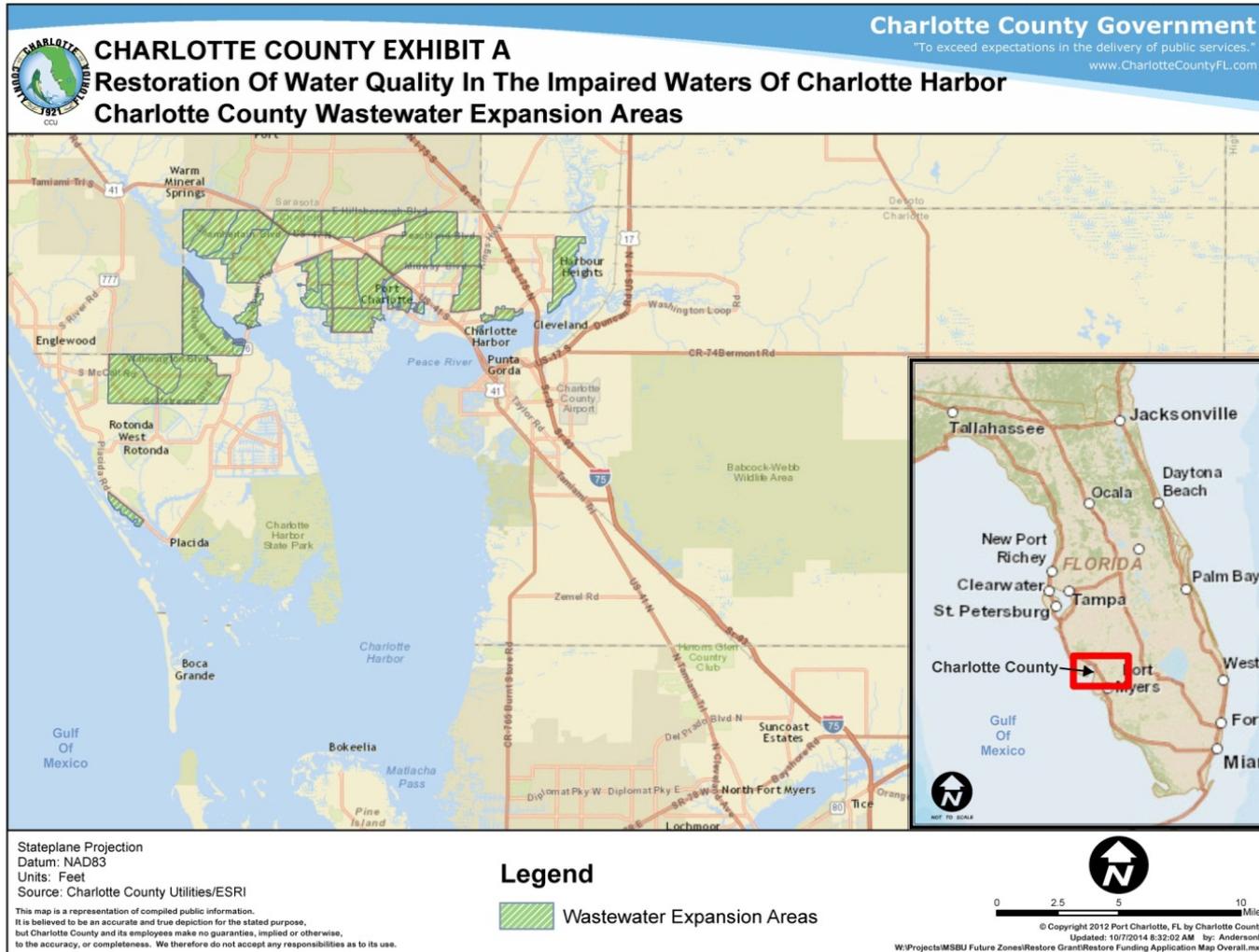


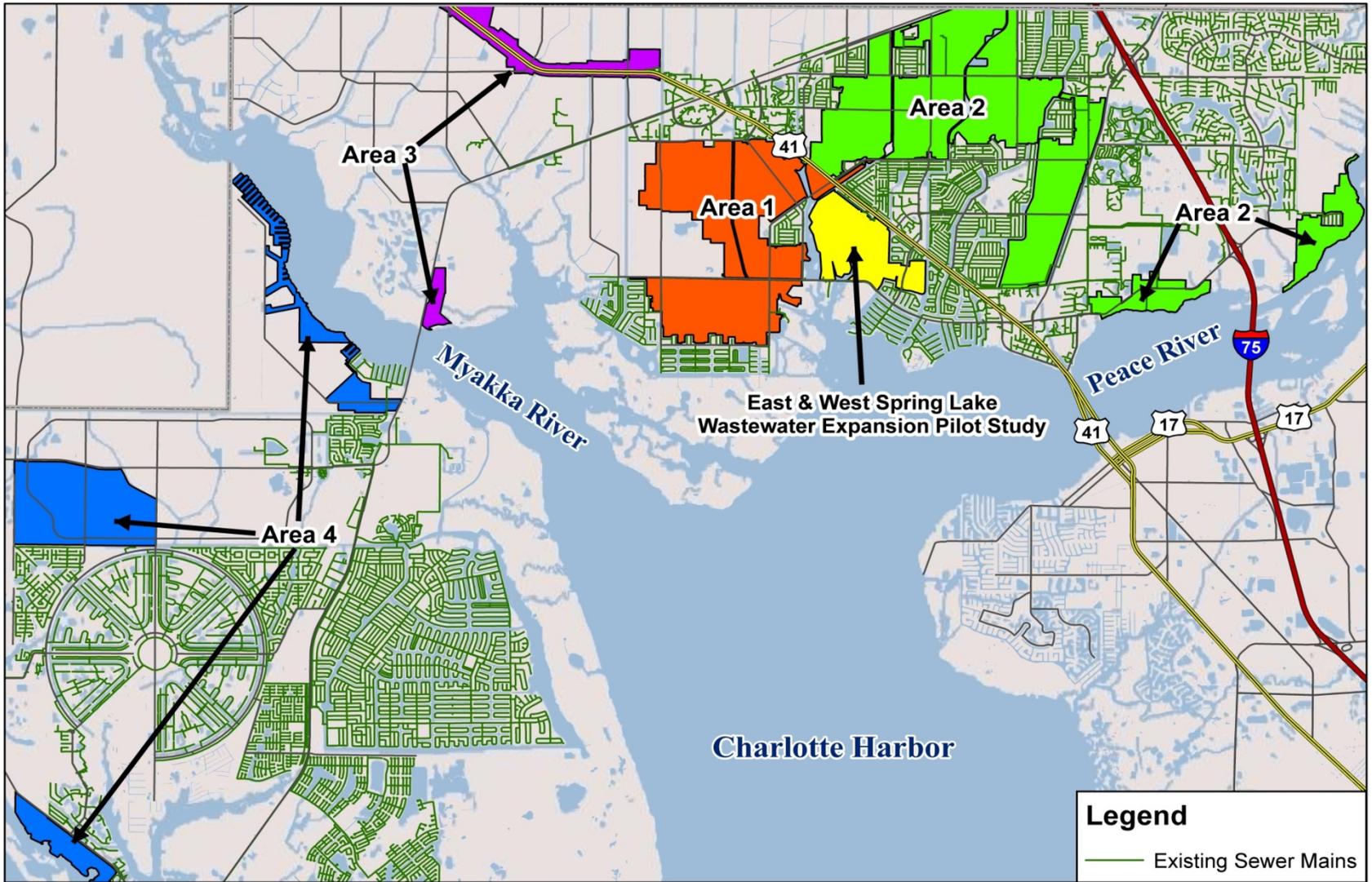
# Blue Water Strategy

## Waste Water



# Wastewater Master Plan





**Charlotte County Utilities**  
**2013 Proposed Wastewater Expansion Plan**  
**Commercial Land Or 50% Greater Developed Residential Land**





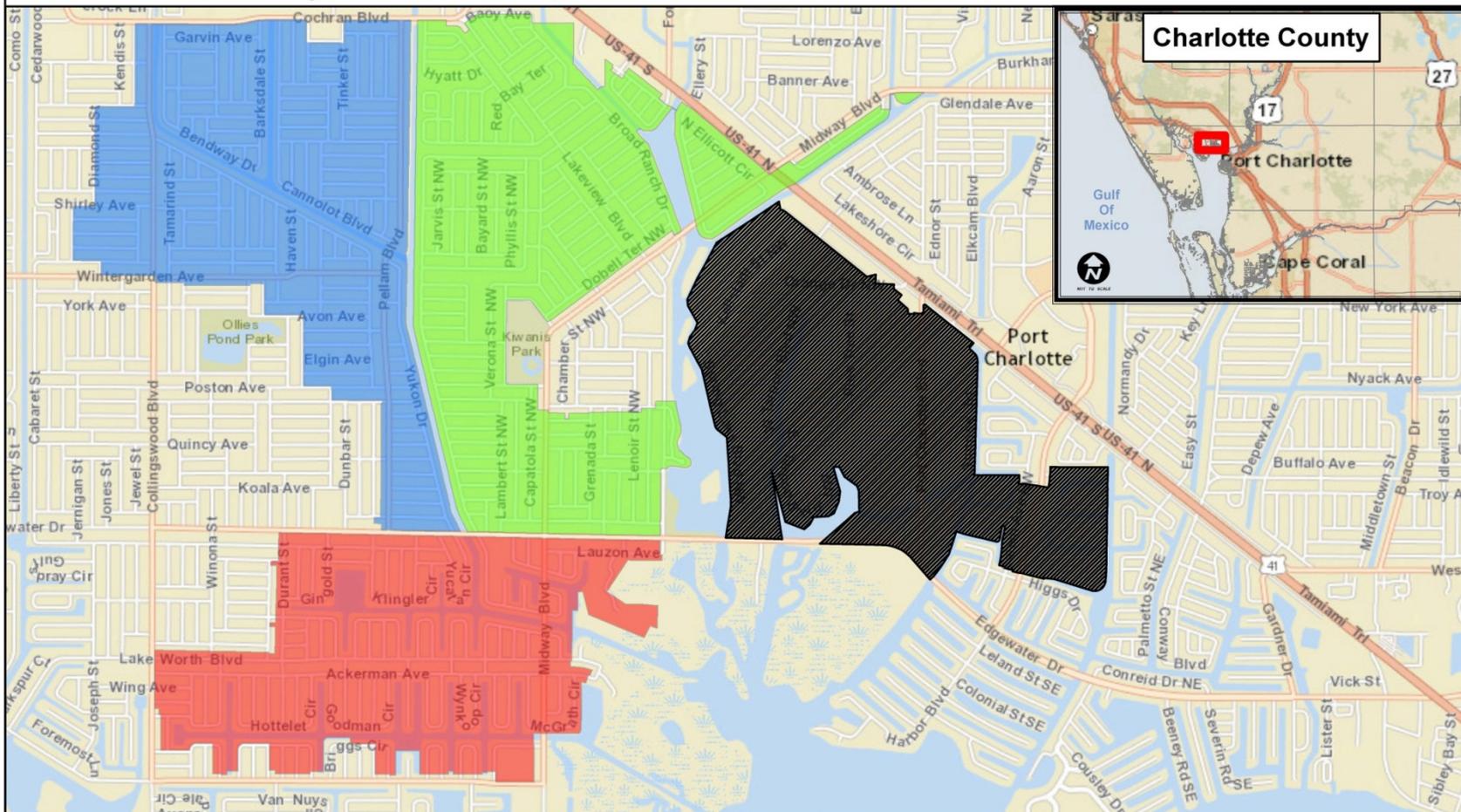
# CHARLOTTE COUNTY

## Restoration Of Water Quality In The Impaired Waters Of Charlotte Harbor Area 1: Priority Wastewater Expansion Areas

Charlotte County Government

"To exceed expectations in the delivery of public services."

www.CharlotteCountyFL.com



Stateplane Projection  
 Datum: NAD83  
 Units: Feet  
 Source: Charlotte County Utilities/ESRI

This map is a representation of compiled public information. It is believed to be an accurate and true depiction for the stated purpose, but Charlotte County and its employees make no guaranties, implied or otherwise, to the accuracy, or completeness. We therefore do not accept any responsibilities as to its use.

### Legend

-  Project In Progress
-  Priority Area 1
-  Priority Area 2
-  Priority Area 3



0 1,450 2,900 5,800  
 Feet

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 Updated: 10/7/2014 9:54:49 AM by: AndersonD

W:\Projects\MSBU Future Zones\Restore Grant\Restore Funding Application Map 3.mxd





# First Priority Area Details

- Total Properties 2,656 (1,169 vacant; 1,487 occupied)
- Design 2016
- Construction 2017-2018
- Type of System: Vacuum
- Total Project Cost: \$32.6 million
- \$14,121 per ERU Occupied\*
- \$9,897 per ERU Vacant\*

\*based upon E&W Spring Lakes 4/8/15 bid #'s



# Central Sewer vs Onsite System

- Onsite systems were originally designed for sparsely populated areas, where homes often were too far away to connect to a centralized, municipal wastewater treatment system.
- It has now expanded inappropriately as a popular method of sewage disposal in many suburban communities.



## Central Sewer vs Onsite System

- Homeowners who live outside the service area of locally treated wastewater systems rely on onsite systems to treat their wastewater & protect their water sources.
- However, high water tables present significant challenges to the operation and maintenance of a typical onsite system





# The Opportunity

- The growth of suburbs over the past 50 years did more than transform the landscape: Urban sprawl also fueled a dramatic increase in the number of onsite systems on small quarter acre lots
- Onsite systems are designed for less densely populated areas.



# Public Education Plans

- Write OP-ED for Newspapers highlighting plans for centralized sewer and goal to improve Charlotte Harbor
- Host meetings in neighborhood areas targeted for centralized sewer.
- Share onsite failure pictures on Social Media

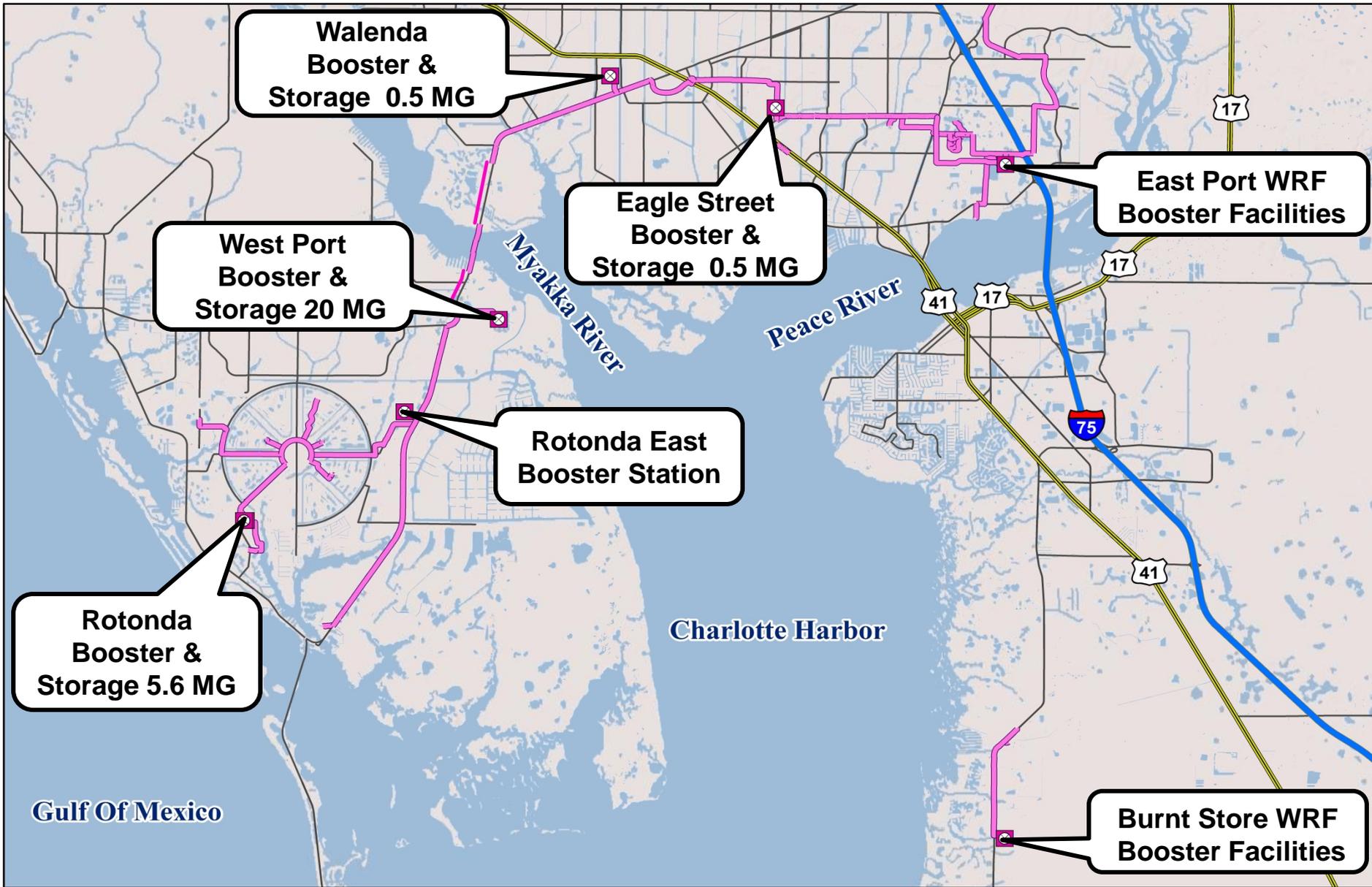


Trench Pipe Failure:  
Build Up Over Time



# Blue Water Strategy

Reuse Water



# Charlotte County Utilities Existing Reclaimed Water Infrastructure





# Why Use Reclaimed Water?

## Environmental:

- Protects environment by helping to prevent salt water intrusion inland caused by excessive ground water withdrawals for irrigation
- Saves utility customers money by reducing the need to develop new potable water supplies

## Regulation:

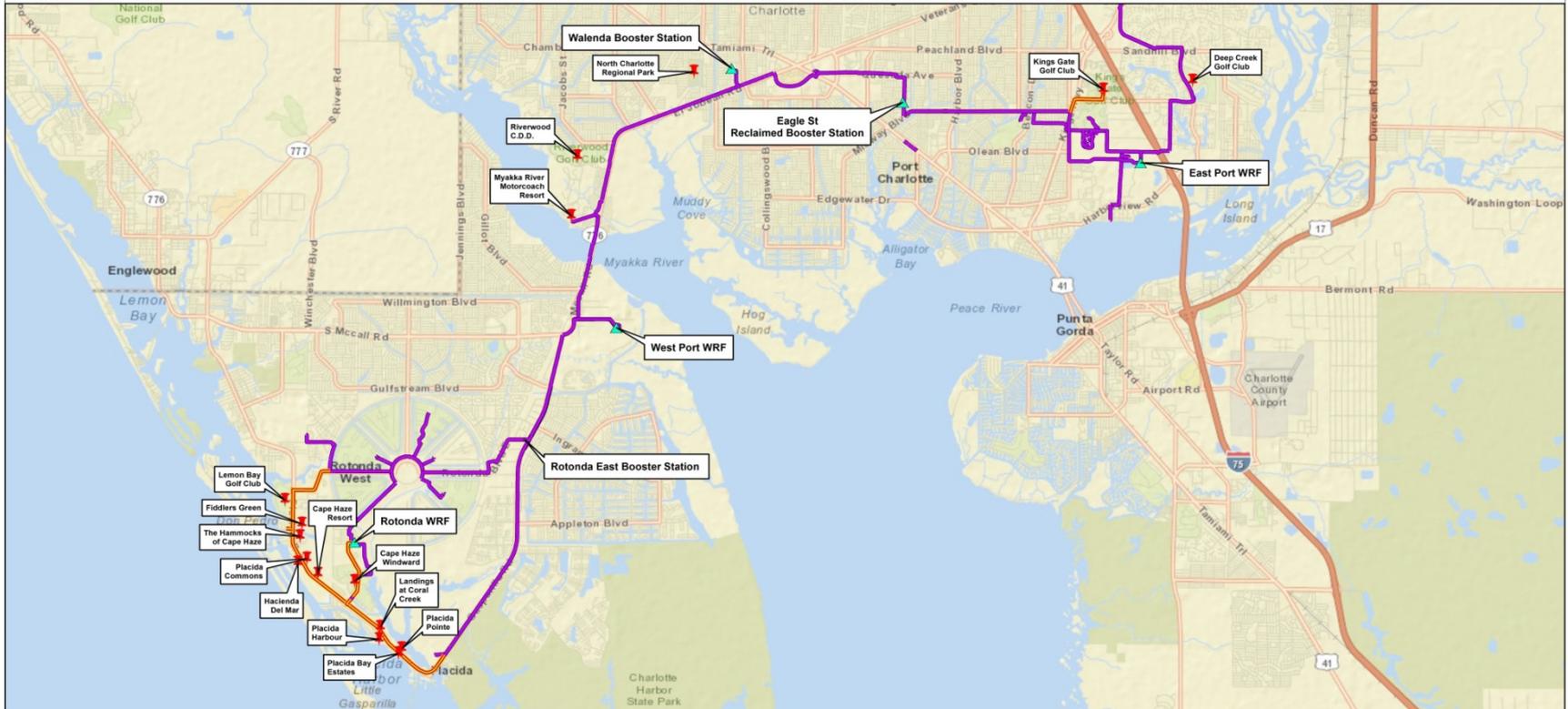
- Compliance with State's long term goal to conserve water by utilizing 75% of all wastewater flows for potable water offsets
- Compliance with existing permits allows future expansion of treatment and storage facilities to meet future growth

## Financial Consequences:

- New Desalination Plant  
\$10 to \$12 / 1,000gal
- New Reverse Osmosis  
Water Treatment Plant  
and Babcock Ranch  
Wellfield  
\$4.00 to \$4.50 / 1,000gal



# CHARLOTTE COUNTY Reclaimed Water Expansion Phase 3 FY 2016 Grant Application



Stateplane Projection  
 Datum: NAD83  
 Units: Feet  
 Source: Charlotte County Utilities

DISCLAIMER: This map is a representation of compiled information. It is believed to be an accurate and true depiction for the stated purpose, but Charlotte County Utilities and its employees make no guarantees, implied or otherwise to the accuracy or completeness. We therefore do not accept any responsibilities as to its use. This is not a survey or is it to be used for design. No part of this map may be reproduced or transmitted by any means without the expressed written permission from Charlotte County Utilities.

### Legend

- ▲ Existing Facilities
- Proposed Reclaim Main
- Existing Reclaim Main



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 Feet

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# Implementation Challenges

- SWFWMD Off set Credits to obtain grants
- Terminating customer irrigation wells
- No statutory requirements requiring use
- Cost to customer for onsite improvements
- Rate reductions
- FDEP pond requirements



# Reclaimed Water Dry Season Production and Usage

Plant	Production*	Sent to Users*	Total Available*
East Port WRF (current)	4.1	1.5	2.6
Rotonda WRF (current)	0.9	0.9	0.0
West Port WRF (current)	0.6	0.6	0.0
<b>TOTAL (current)</b>	<b>5.6</b>	<b>3.0</b>	<b>2.6</b>
<b>WASTEWATER EXPANSION (Additional 17,000 Connections)</b>	<b>2.6</b>		<b>5.2</b>
<b>TOTAL DEMAND PHASE 3 STAGES 1-3</b>		<b>3.5</b>	<b>1.7</b>
Burnt Store WRF (current)	0.3	0.003	0.297
Burnt Store (future demand)		0.297	0

\* Flow in Million Gallons per Day (MGD)

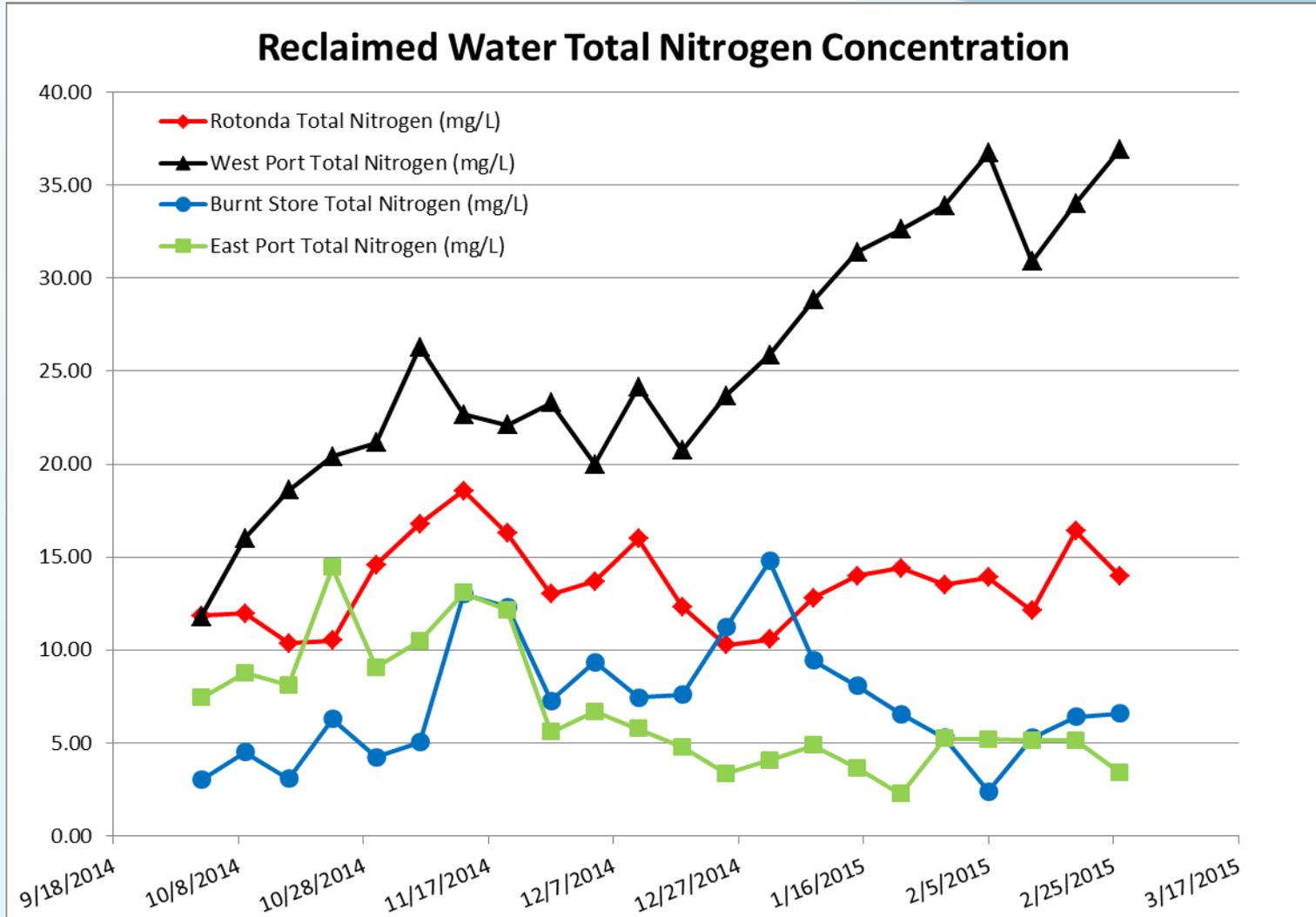


# East Port WRF Expansion

- Reclaimed Water improvements  
Scheduled for 2016 & 2017  
6.5 Million Dollars
- Expansion from 6 MGD to 9 MGD  
Scheduled for 2021 & 2022  
21.3 Million Dollars

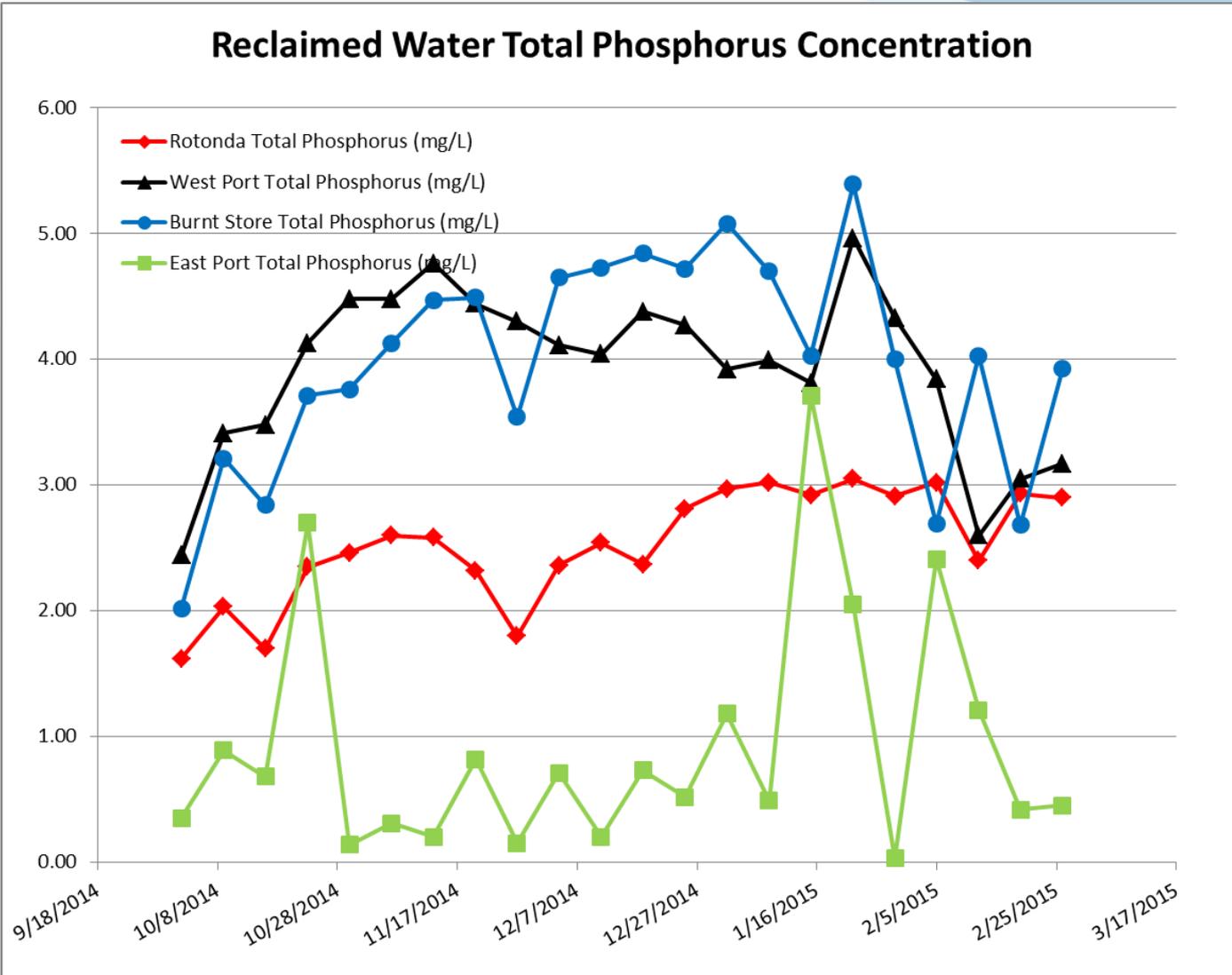


# Nutrient Concentration





# Nutrient Concentration





# Trends in Reuse Utilization

- There are major changes in the area of municipal water reuse:
- Water-stressed regions such as the Southwest (California) are experiencing severe impact on the lack of potable water and are exploring other options.



# Trends in Reuse Utilization

- Regulations governing the treatment requirements for Indirect Potable Reuse (IPR) are set for overhaul in the state of California. The effect these regulations have on the greater market will definitely influence what technologies are best suited for growth in water reuse.



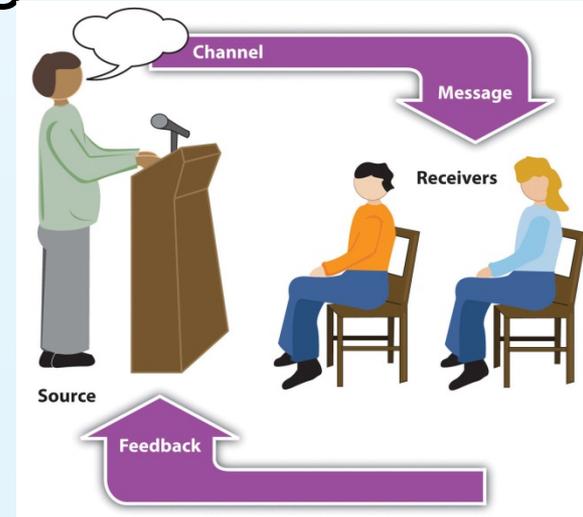
# Trends in Reuse Utilization

- However, the effect public sentiment will have on the decision to move towards potable reuse is an area of heated debate.
- PR efforts: Current Trend battling the “YUCK FACTOR”
- Florida is now beginning to look at options similar to the Southwest, and trends do look to mix reuse back into the potable process.



# Public Education Plans

- Create presentations designed to engage the audience. HOAs, Civic Associations (Rotary, Kiwanis) & Chamber of Commerces explaining density issue and complexities of not moving towards a centralized sewer system.





# Blue Water Strategy

## Storm Water



# Proactive strategies for TMDL

## TMDL Updates

- Caloosahatchee Tidal Portion (Total Nitrogen) – BMAP
  - Signed November 27, 2012
- Lake Okeechobee (Total Phosphorous) – BMAP
  - Signed December 9, 2014
- Gottfried Creek (Fecal)
  - Walk the WBID
- Alligator Creek (Fecal)
- Trout Creek (Fecal)



# Proactive strategies for TMDL

- Constant communication with FDEP
- Get credit for projects