CITY COUNCIL STRATEGIC PLANNING MEETING
300 WEST CROWELL STREET
MONROE, NORTH CAROLINA 28112
APRIL 9, 2024– 4:00 P.M.
AGENDA
www.monroenc.org

1. Fluoridated Drinking Water Presentation

2. Fiscal Year 2025 Budget Departmental Discussions
   A. Downtown/Facilities
   B. Communications/Tourism
   C. Water Resources
   D. Information Technology
   E. Energy Services

- **Agenda** is tentative and is subject to change up to and including the time of the meeting.
- At the discretion of City Council, **Agenda Items** listed above that are not discussed at the Strategic Planning Meeting or moved at the request of Council, may be carried forward to the City Council Regular Meeting at 6:00 p.m. to be considered.
- **Cell Phones/Pagers**: As a courtesy, please turn off cell phones and pagers while Meeting is in progress.

City of Monroe
Where Heartland Meets High Tech

STAFF REPORT

TO:	City Council
VIA:	Mark Watson, City Manager
DATE:	April 9, 2024
FROM:	Scott Clark, Water Resources Director
PREPARED BY:	Scott Clark, Water Resources Director
SUBJECT:	Fluoride Presentation for Informational Purposes

SUMMARY STATEMENT

Water Resources staff and Black & Veatch Engineering Consultants will provide a brief presentation on Fluoridated Drinking Water. This presentation is for informational purposes only.

REVIEW

The City of Monroe has provided high quality, Fluoridated drinking water since early 1963. Water Resources provides approximately 7-MGD of water to our customers and community. Black & Veatch Engineering Consultants will provide a brief presentation on Fluoridated water and associated information. The presentation is being presented at the request of the Public Enterprise Committee.

RECOMMENDATION

No action is necessary at this time.

Attachment(s): Presentation

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Fluoride in Drinking Water

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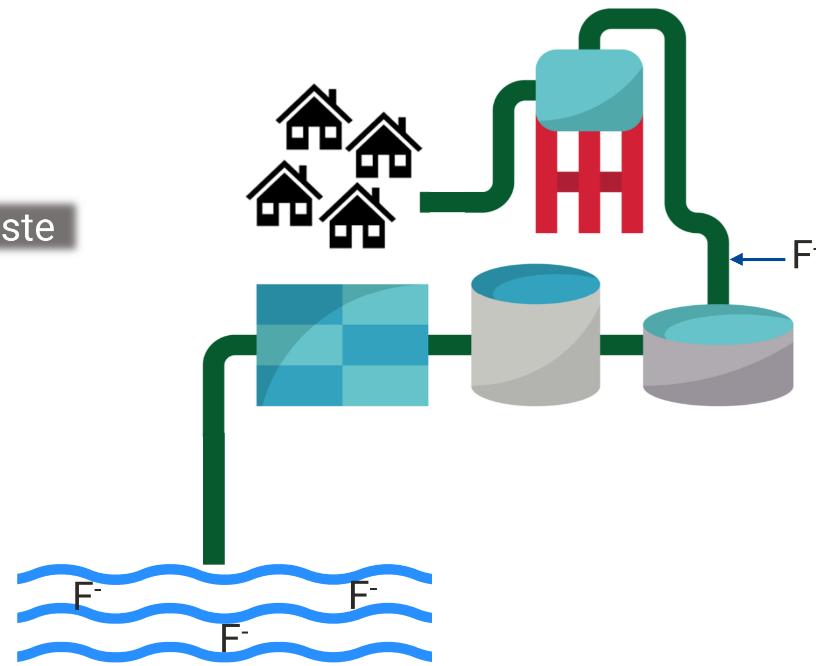
Fluoride



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How Did Water Fluoridation Start?

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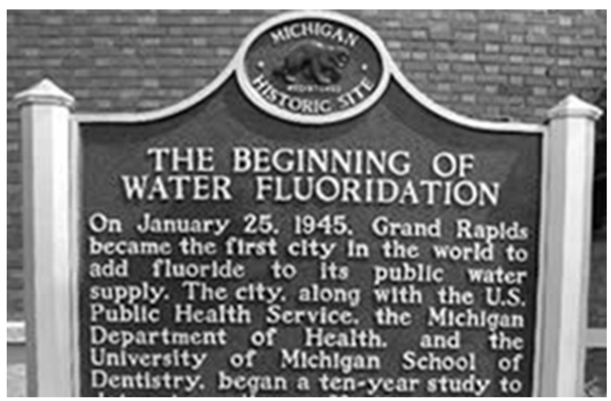
History

- 1930s – Scientist discovered the lower rate of tooth decay in children drinking water containing higher naturally-occurring fluoride
- 1945 - Grand Rapids Michigan, the first U.S. city to start fluoridating public water supply
- 1950 - Significantly fewer cavities of schoolchildren in Grand Rapids, encouraged other Michigan cities to adapt fluoridation
- Observed benefits encouraged cities and towns across the U.S. to start fluoridation



Source: *Center for Disease Control & Prevention (CDC), https://www.cdc.gov/fluoridation/basics/index.htm*

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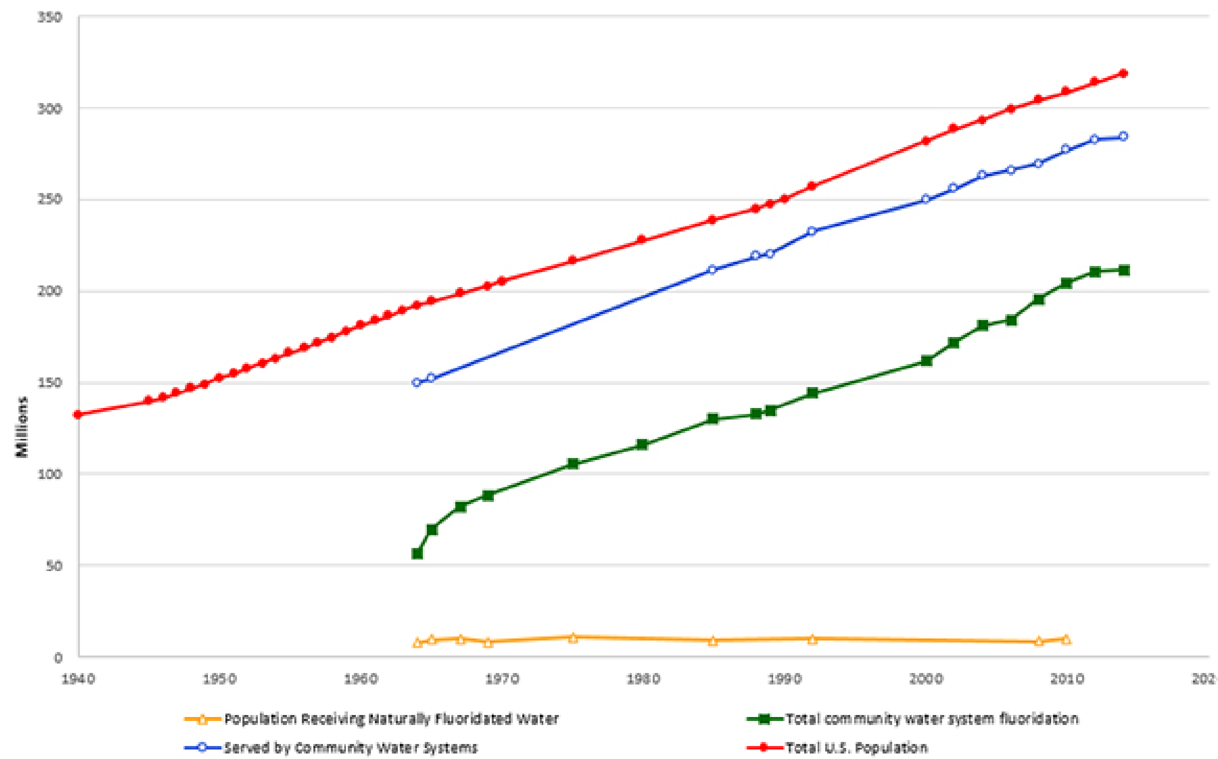
Fluoridation in U.S.

As of 2020

- ***62.9%*** of U.S. population received fluoridated water
- ***72.7%*** of U.S. population on community water systems (CWS) received fluoridated water

87.9% of NC population on CWS received fluoridated water



Fluoridation Growth by Population, US 1940-2014

Source: *Center for Disease Control & Prevention (CDC), https://www.cdc.gov/fluoridation/basics/index.htm*

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Fluoride, Health & Cost

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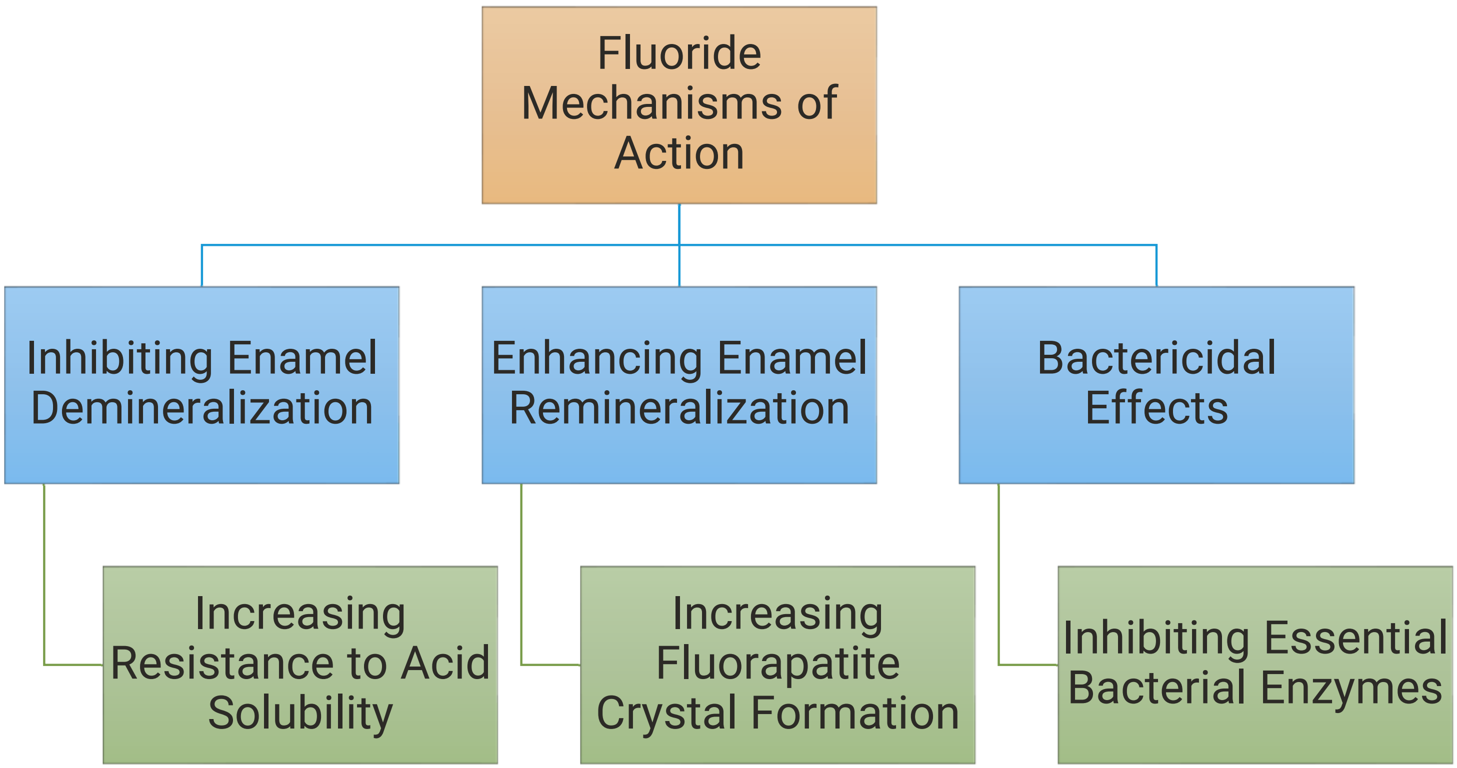
Fluoride Mechanisms of Action



Source: *Buzalaf MAR, Pessan JP, Honório HM, Ten Cate JM. Mechanisms of action of fluoride for caries control. Monogr Oral Sci. 2011;22:97-114. doi: 10.1159/000325151. Epub 2011 Jun 23. PMID: 21701194.*

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Health Benefits[1]

Extensive body of research supports the effectiveness of water fluoridation in reducing dental caries

U.S. Public Health Service (PHS)	Comprehensive review of scientific research demonstrating the effectiveness of water fluoridation in caries prevention and control
Community Preventative Services Task Force	Review of scientific research showed overall positive impacts of water fluoridation on dental health
Center For Disease Control and Prevention (CDC)	CDC names community water fluoridation as one of top 10 public health achievements of 20th century
Australian National Health and Medical Research Council	Systematic review of scientific body of research strongly suggests that water fluoridation is beneficial in reducing dental caries

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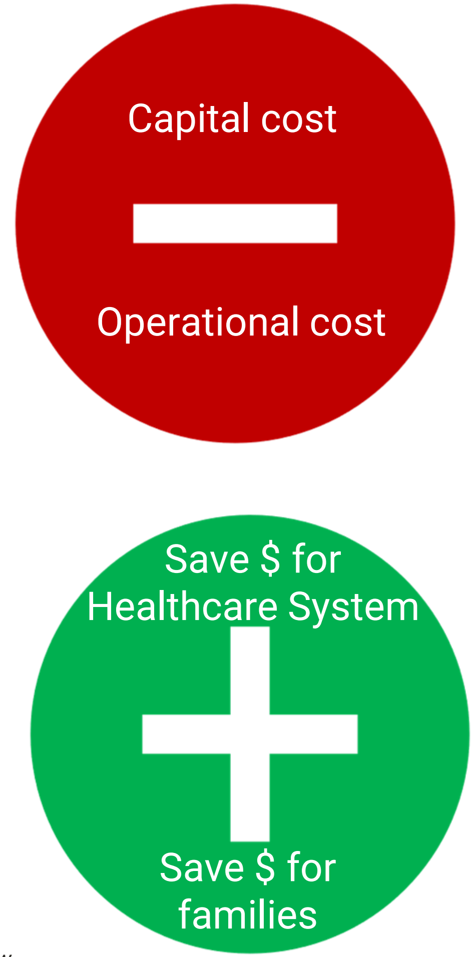
Estimated Cost-Benefits

Research study reviewed research efforts published after 1995

- Holistic cost evaluation of water fluoridation indicates economic benefits of water fluoridation
  - Annual intervention cost of $0.11- $4.89 per capita
  - Annual benefits of $5.45- $139.78 per capita
- Benefit-cost ratio increases with the community population size



Source: *Tao Ran, Sajal K. Chattopadhyay. Economic Evaluation of Community Water Fluoridation: A Community Guide Systematic Review. American Journal of Preventive Medicine. 2016; 50(6):790-796.*

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Continued Benefit Uncertainty

- Comprehensive Cochrane Review meta-analysis published in 2015 evaluated the evidence of benefit of water fluoridation on modern lifestyle
  - Most observational studies at high risk of bias
  - 70% of the high-quality studies were conducted before 1975 and prevalence of fluoride toothpaste
  - In modern lifestyle, the impact of water fluoridation is mixed with the impact of other fluoridated products
  - The role of dental care products containing fluoride is unknown
- Affirms potential positive impacts of water fluoridation, but acknowledges lack of evidence on the extent of its impact in the context of modern lifestyle

Source: *Iheozor-Ejiofor Z, Worthington HV, Walsh T, O'Malley L, Clarkson JE, Macey R, Alam R, Tugwell P, Welch V, Glenny AM. Water fluoridation for the prevention of dental caries. Cochrane Database Syst Rev. 2015 Jun 18;2015(6):CD010856. doi: 10.1002/14651858.CD010856.pub2. PMID: 26092033; PMCID: PMC6953324.*

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Health Concerns

Dental Fluorosis

- *Concern*: Mild forms of dental fluorosis in the U.S. have increased
- *Findings*: Mild dental fluorosis creates aesthetic issues (mottled teeth) does not impact tooth functionality

Skeletal Fluorosis

- *Concern*: Potential health risk at higher levels, particularly endemic water and air exposure
- *Findings*: Primary limit of 4 mg/L in (2 mg/L secondary) with health effects language *"Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones."*

Carcinogenicity

- *Concern:* correlation between osteosarcoma and water fluoride levels in males based on residence history
- *Findings:* No correlation between osteosarcoma and fluoride levels in cancerous and benign bone tumors; more accurate procedure for determining fluoride exposure than residence history.

Source: *State of the Science: Community Water Fluoridation. Water Research Foundation. 2015. Report #4641*

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Health Concerns

Neurological Effects*

- Disputed studies show links between water fluoride levels and reduced IQ
- Findings are inconsistent – Lowering of IQ due to fluoride exposure has not been demonstrated in areas that practice CWF

Endocrine Disruption*

- Evidence of endocrine disruption is inconsistent where some studies show correlation, and some do not
- The mixed results has impeded a decisive conclusion and research on the topic is ongoing

NTP added fluoride hazard classification, 2016**

↓

NASEM rejected the conclusion made by NTP due to inadequate support for the conclusion

↓

NTP removed fluoride hazard classification

↓

Further research and investigation is ongoing

** State of the Science: Community Water Fluoridation. Water Research Foundation. 2015. Report #4641*
*** NTP website:* Fluoride: Assessment for Developmental Neurotoxicity (nih.gov) . Accessed on 02/21/2024.

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Water Fluoridation: Operational Considerations

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Operational Challenges & Benefits

Health and Safety Impact

-Extra caution required in smaller facilities where dry salt additive is used

- Handling the salt additive requires personal protection equipment

Operational Benefit

+ Fluoride is used as a tracer for leak detection

o No significant impact on water quality parameters such as pH or corrosivity

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Start & Stop Fluoridation in NC

Rules Governing Public Water Systems

- Fluoridation- SECTION .1400
- Application that includes a resolution by the local government or governing body operating CWS, which shall include **local board of health** approval of the proposed fluoridation procedure

- Discontinuation of Fluoridation -15A NCAC 18C .1406 (h)
- Prior to the discontinuation, a supplier of water shall provide to the Department and the Department of Health and Human Services, Oral Health Section, copies of documentation by the local government or the governing body operating CWS that:
    - the resolution provided in the formal application to add fluoride has been rescinded or replaced; and
    - the local board of health has been notified.

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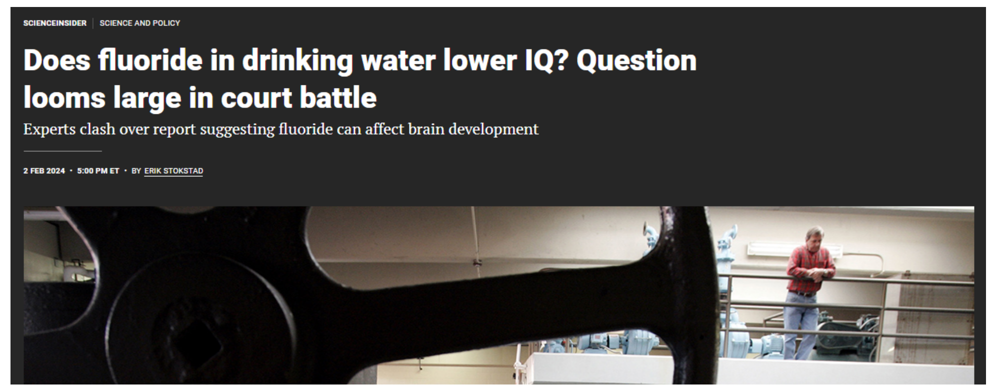
Current Legal Challenges

City of Buffalo, NY*

- Stopped fluoridation in 2015
- Two lawsuits (including one class action) were filed against city for lack of fluoride in drinking water
- City to restore fluoridation in summer 2024

San Francisco, CA**

- Lawsuit filed against EPA and to prohibit fluoride addition to drinking water
- The lawsuit is based on claims of neurotoxicity associated with water fluoridation



Second suit filed against Buffalo over lack of fluoride (buffalonews.com). Accessed on 02/21/2024.
** *Fluoride Science on Trial in Case With Broader Chemical Impacts (bloomberglaw.com). Accessed on 02/21/2024*

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Summary

- The extensive body of scientific research suggests the effectiveness of water fluoridation in reducing dental caries
- To date, the only widely acknowledged adverse health impacts of correctly executed water fluoridation is dental fluorosis
- Cost-benefit analysis conducted by government agencies and independent researchers favors water fluoridation
- Debate on adverse health impacts (neurotoxicity and endocrine impacts) has led a minority of systems to discontinue drinking water fluoridation

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Discussion

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References

- *Community Preventive Services Task Force. Guide to Community Preventive Services: Community Water Fluoridation website: http://www.thecommunityguide.org/oral/fluoridation.html*
- *Koulourides T. Summary of session II: Fluoride and the caries process. J Dent Res. 1990;69(Spec Iss):558.*
- *Featherstone JD. Prevention and reversal of dental caries: Role of low level fluoride. Community Dent Oral Epidemiol.1999;27:30–40.*
- *Truman BI, Gooch BF, Sulemana I, et al. Reviews of evidence on interventions to prevent dental caries, oral and pharyngeal cancers, and sports-related craniofacial injuries. Am J Prev Med. 2002(1S):21–54.*
- *Griffin SO, Regnier E, Griffin PM, Huntley V. Effectiveness of fluoride in preventing caries in adults. J Dent Res. 2007;86:410–415.*
- *CDC Community water Fluoridation Fact sheet: Community Water Fluoridation Fact Sheet (cdc.gov). Accessed on 02/21/2024.*
- *Water Fluoridation and Human Health in Australia. Australian National Health and Medical Research Council:* 2017 Public Statement – Water fluoridation and human health | NHMRC. *Accessed on 02/21/2024.*

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FY 2025 Departmental Budget Discussion

1

Downtown and Facilities

Downtown Monroe

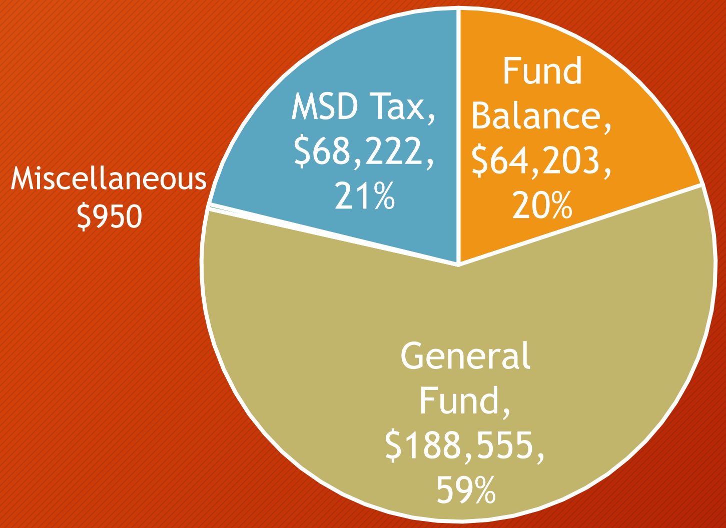
2

- North Carolina Main Street Program (NC Dept. of Commerce)
- Main Street America Accredited 2024 – Only 51 Municipalities in NC
- Six Standards –
  - Revitalization
  - Inclusive leadership and organizational capacity
  - Diversified funding and sustainable program operations
  - Strategy-Driven Programming
  - Preservation-Based Economic Development
  - Demonstrated Impact and Results

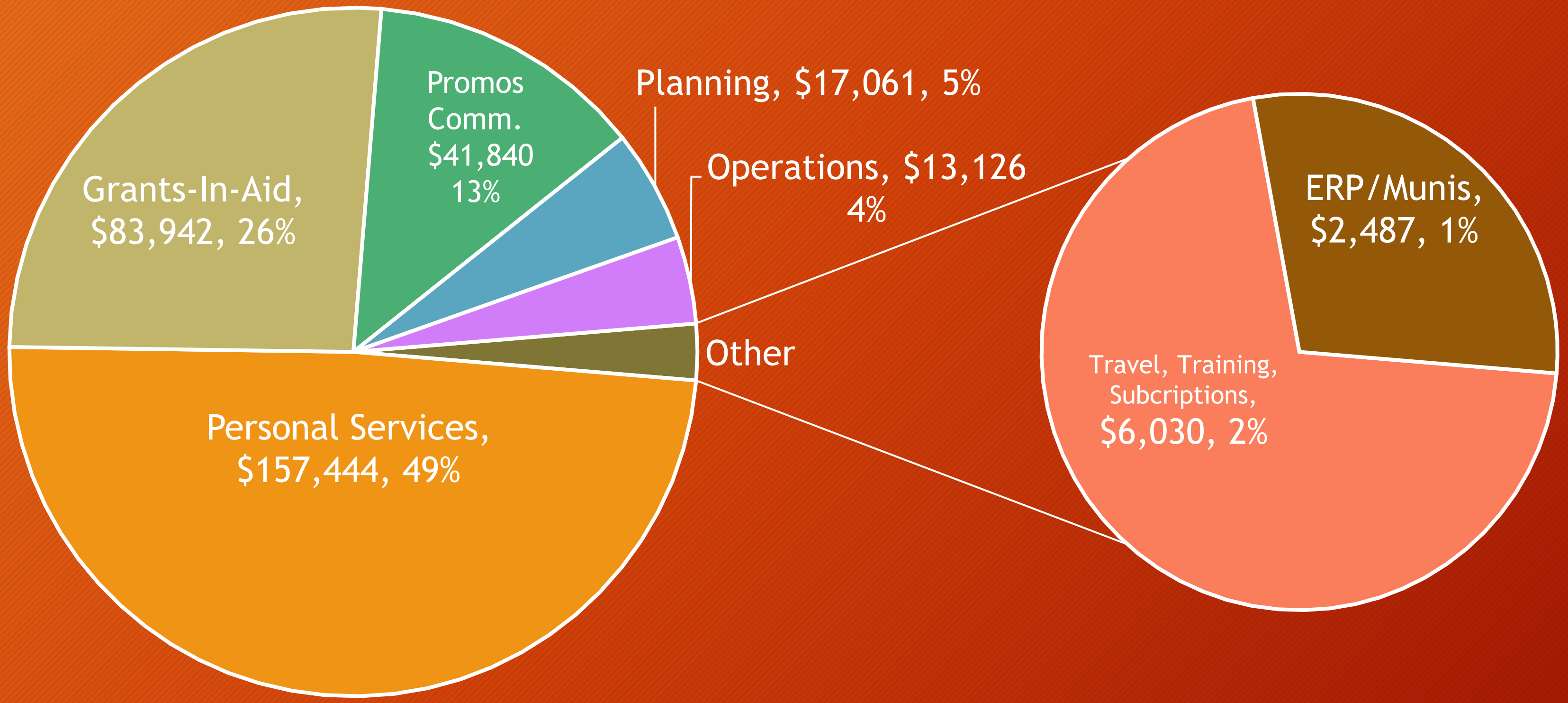
Downtown Budget
FY 2024 Budget - Revenues

3

- Dedicated Funding and General Funds
- Municipal Service District Tax (MSD) 19.5 cents/$100 property value in the Downtown District
  - Generates approximately $68,000 annually



Downtown Budget
FY 2024
Budget - Expenses



FY 2023-24
Budget
$321,930
1 FTE Position

Funding Requests

1. Love Your Downtown Event Funding
2. Social Media and Promotions Contract
3. Personnel – Administrative Assistant II
4. Street Furniture, lighting and banners, wireless speaker/music system
5. Mural Projects

Total Recurring: $100,144

Total Nonrecurring: $260,300

Operating/Contracted Services

6

- ***Guest Speaker Event / Love Your Downtown***
  - Additional funds needed to close gap (current funding vs. actual need): $15,000
  - Interest/Need: High
  - Estimated Costs:
    - $15,000 Guest speaker
      Travel, Food and Incidentals

Social Media/Promotions Contract

- ***Contract - $24k Annually***
    - Photo Social Posts
    - Story posts
    - Reels
    - Other

Boost Awareness and Advertising for Downtown Monroe!

Personnel – Downtown

- Administrative Assistant II
  - Significantly enhance communication and coordination with Downtown Businesses, property owners, and others
  - Estimated Costs:
    - Salary/benefits etc: Salary: 54,153 Total Benefits: $30,606
    - Total Recurring annual salary/benefits: $84,759

Operating/One-time Purchase

- ***Street Furniture***
  - Additional funds needed to close gap (current funding vs. actual need): $30,000
  - Interest/Need: High
  - Estimated Costs:
    - $2,500 per bench
    - $1,700 per trash receptacle
    - $1,000 per bike rack

Base-line Budget Expansion / Contracted Service

- ***<u>Main Street Lights</u>***
  - Additional funds needed to close gap Interest/Need: High
  - Estimated Costs:
    - $15,385 Installation, Storage, & Upkeep of Lights (Recurring)
- ***<u>Expansion of Building Street Lights</u>***
  - Building Lights - $46,300 (Nonrecurring)

Operating/One-time Purchase

- ***Banner Replacement for Spring and Winter***
  - Additional needed to close gap (current funding vs. actual need): $10,000
  - Interest/Need: High
  - Estimated Costs:
    - $10,000

Capital Improvements/Replacement and Upgrade

- ***<u>Downtown Wireless Speaker System</u>***
- Additional funds needed (current funding vs. actual need:) $100,000
- Interest/Need: Medium
  - Estimated Costs:
    - $100,000
    - Total Cost including installation

Operating/Contracted Services

13

- ***Mural Projects (3 to 4 Murals)***
  - Additional funds needed to close gap (current funding vs. actual need:) $35,000
  - Interest/Need: High
  - Estimated Costs:
    - $35,000 Muralist and RFQ

FY 2024 Departmental Budget Discussion

14

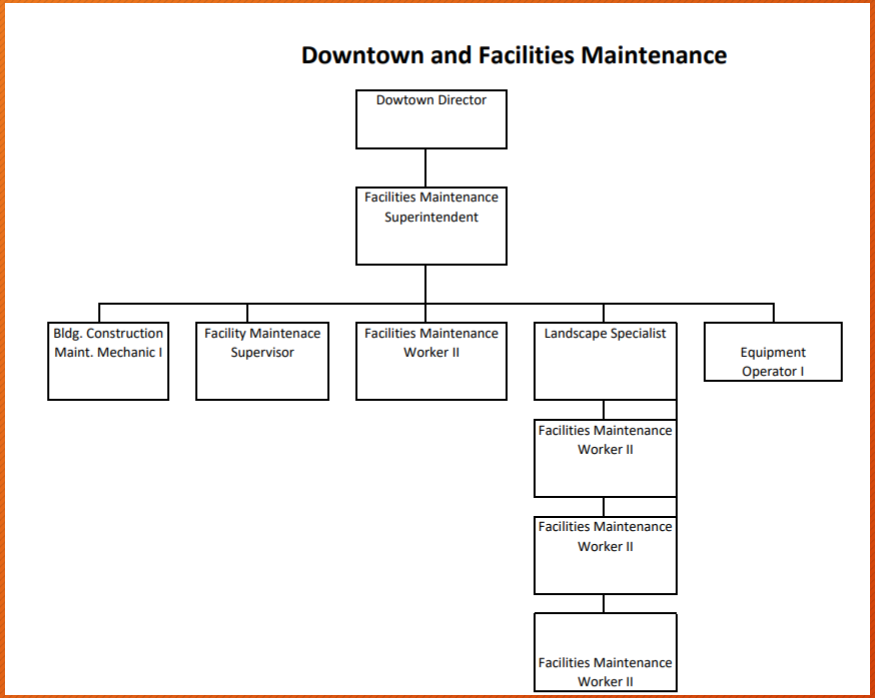
Facilities Maintenance

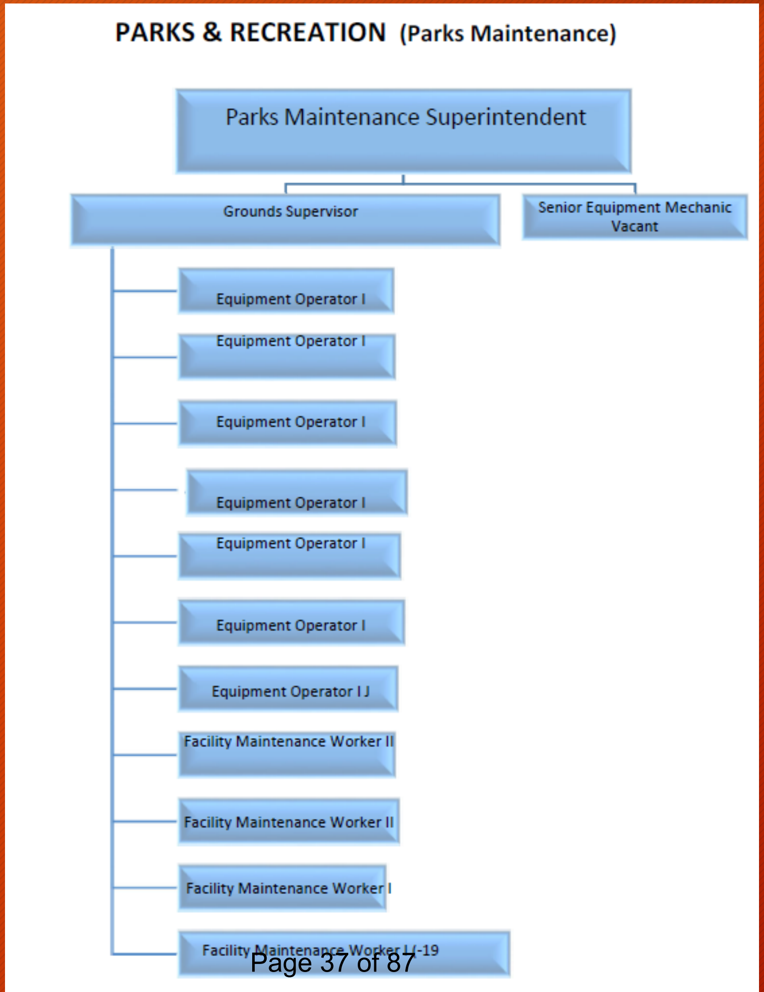
Restructure Downtown, Facilities, & Grounds

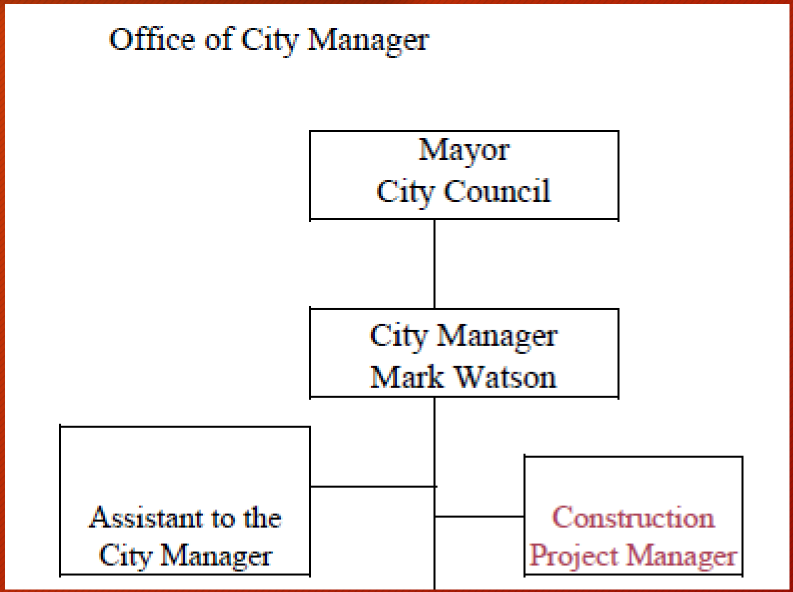
15

- Effective July 1, 2024
- Separates Downtown Office and budget from Facilities Maintenance
- Combines existing personnel resources budgeted in three Departments into one new Department; as most of the new Department costs are budgeted throughout other City budgets
- Creates a budget from existing building maintenance, repairs/renovations, contracts funded throughout City budgets to create the budget for the new Department of Property Management
- Creates savings and efficiencies through expanded technical work to be performed by City employees; Housekeeping is currently done through contract, and this will remain and will be reviewed to determine best delivery of service
- Implements a Work-Order system – high priority and necessary to meet customer needs, track service requests, track maintenance activities, and control and monitor costs

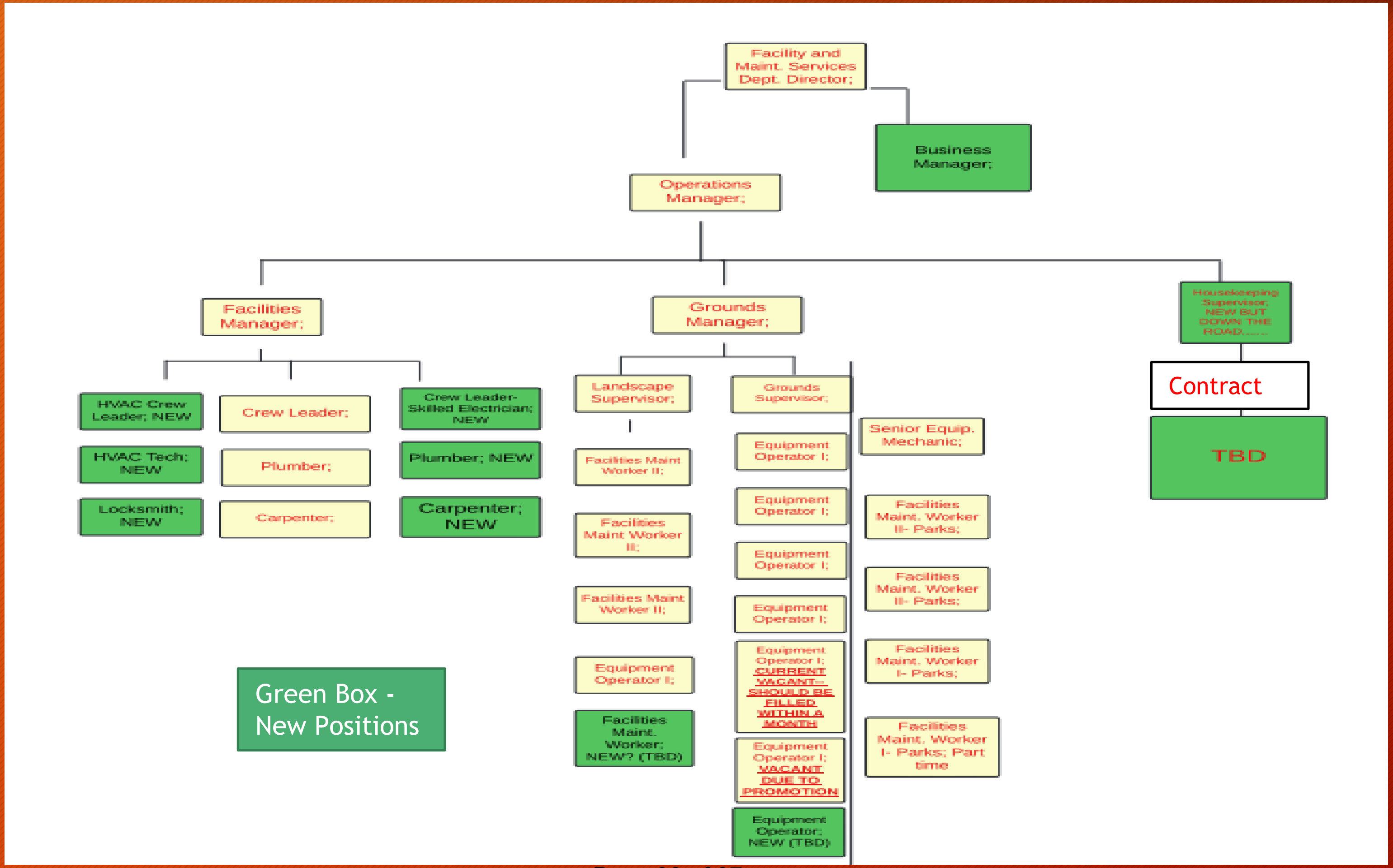
Facilities and Grounds Management – Current Structure







Department of Property Management



Funding Requests - Facilities

1. Personnel and Associated Truck
2. Landscape Crew Truck
3. Landscape Supervisor's Truck
4. Hauling Trailer
5. Scissor Lift
6. Kubota Work Cart
7. Dump Truck Replacement

Total Recurring	$60,705
Total Nonrecurring	$352,311

Personnel

- Facility Maintenance Worker II
  - Responsible for maintaining City-owned grounds and buildings, facilities and amenities affected by vandalism, and general repairs
  - Need: As grounds and facilities grow in numbers and visitors, there is a higher propensity for damages. Any damages need to be addressed immediately. This position will address smaller repairs related to immediate needs caused by vandalism or need for small renovation or repair.
  - Estimated Costs:
    - Equipment/supplies, etc. (one time, non-personnel):
      - $56,000.00 – Capitalized Motor Vehicles
      - $300.00 – Uniforms and Shoes
    - Salary/benefits, etc.: $60,405.00
    - Total Recurring annual salary/benefits: $60,405.00

Capital Equipment/Replacement

Landscape Crew Truck #2102

- Interest/Need: High
- Garage Score: 40
- Estimated Costs:$72,995- One-time purchase

Landscape Supervisor Truck

- Interest/Need: High
- Garage Score: 28
- Estimated Costs: $40,620- One-time purchase

Capital Equipment/Other

- ***Hauling Trailer***
  - transport Scissor lift and planters
  - Estimated cost:
    - $5,696 (one-time purchase)

- ***Genie 32' Scissor Lift***
  - interior work jobs like ceiling construction, sign hanging, light bulb changing and other maintenance projects
  - Estimated Cost:
    - $30,000 (one-time purchase)

Capital Equipment/Other

- *Kubota Work Cart*
  - $20,000
  - Water Planters/General Cleanup

Capital Improvements/Replacement

- Project/Initiative: (greater than $100,000)
  - Purchase of new Dump Truck
  - Additional needed for improvement
    - Replacement of Dump Truck #981
  - Interest/Need:
    - This Dump Truck has reached its end of life and is scheduled for replacement.
  - Estimated Costs:
    - Materials/facility (non-personnel):
      - Not Applicable
    - Total Cost to implement first year:
      - $127,000.00
    - Total Recurring annual cost:
      - Not Applicable

Questions?

FY 2025 Departmental Budget Discussion

Communications and Tourism

Monroe Country Club Ballroom and Golf Course

Monroe
North Carolina

Pro Shop Operations

- **Merchandise Increase - $15,000**
  To maximize Pro Shop sales and always have on-hand stock for items that are impulse buy (offset by increase in revenue).
- **Snack Bar Increase - $10,000**
  To maximize snack bar sales with addition of on-course beverage cart (offset by increase in revenue).
- **Rental Clubs- $3,700**
  Rental clubs for visitors and those who need a set (offset by generated revenue).

Golf Course Operations

- **Tag Marshall Cart Tracking - $18,375**
  Golf Course management tool to maintain pace of play, restrict carts to cart path only and keep out of sensitive areas (woods, greens, tees).
- **Employee Service Contract – $30,000**
  Funds needed to sustain yearly contact with former golf course superintendent to provide on-site assistance with staffing, product ordering, ballroom management, and general operations.

Personnel - Golf Course

Two Facility Maintenance Worker II positions - $110,743

- Annual Salary: $64,337
- Annual Benefits: $46,406
- The demands for the use of the Monroe Country Club Golf Course and keeping the course in playable shape continues to be a challenge with the amount of current staff. The additional staff will allow for more work to be done during times when golfers are not on the course and will allow for the better care and maintenance of the facility. It will also take burdens off of current staff to work schedules around weekends and holidays allowing for more spacing of weekend and holiday work schedules.

Equipment Replacement - Golf Course

Replace 2 Toro Greens Master Mowers - $124,240 (total)

- These mowers will be replaced with Toro Tri-Flex 3300's and will mow the 2.1 Acres of Putting Surfaces at Monroe Country Club.
- Toro Tri-Flex 3300 $62,120 per mower = $124,240.

Replace Toro Workman work vehicle - $40,373

- This vehicle tows equipment, supplies and materials.
- Toro Workman HDX $40,373

Replace Buffalo Twin Turbine Blower - $15,003

- This equipment is used to blow debris, leaves, grass off roughly 90 acres of tees, fairways and greens.
- Buffalo Mega Blower – $15,003

Pro Shop Renovation - $360,00

Major renovations to the interior and exterior including new exterior bathrooms to meet ADA code -$360,000

The demands for the use of the Monroe Country Club Golf Course and especially the renovation of the Pro Shop is necessary as delayed maintenance have left the facility dated, deteriorated and in desperate need of modification to enhance customer experience and general functionality of the facility.

Modifications include:

- New exterior stand-alone restrooms to northeast side of pro shop.
- Low hip roof extension creating covered porch area.
- Rearrange configuration of merchandise sales floor as well as refreshment area.
- New flooring, paint, and fixture replacements throughout.
- Relocation of check in counter and associated electric and point of sales equipment.
- Relocation of walls/counters for better continuity of service and ease of operation.

Ballroom Transformation Capital – $500,000 (est.)

Transformation of the Monroe Country Club Ballroom to a indoor golf simulator activity center

Modifications included in phase 1:

- Simulators and supporting equipment $235,500
- Kitchen modifications $22,000
- Furniture $30,500
- Construction of front porch and entrance way modifications, electric… $175,000 (estimated)
- Exterior enhancements (landscaping/parking…) $22,000
- Flooring/paint, misc.… $15,000

Ballroom Transformation Staffing - $220,743

Two full time staff positions- $110,743

- Annual Salary: $64,337
- Annual Benefits: $46,406
- **Four to Six part time attendant positions $110,000**
- Annual PT Salaries: $12-15 per hour

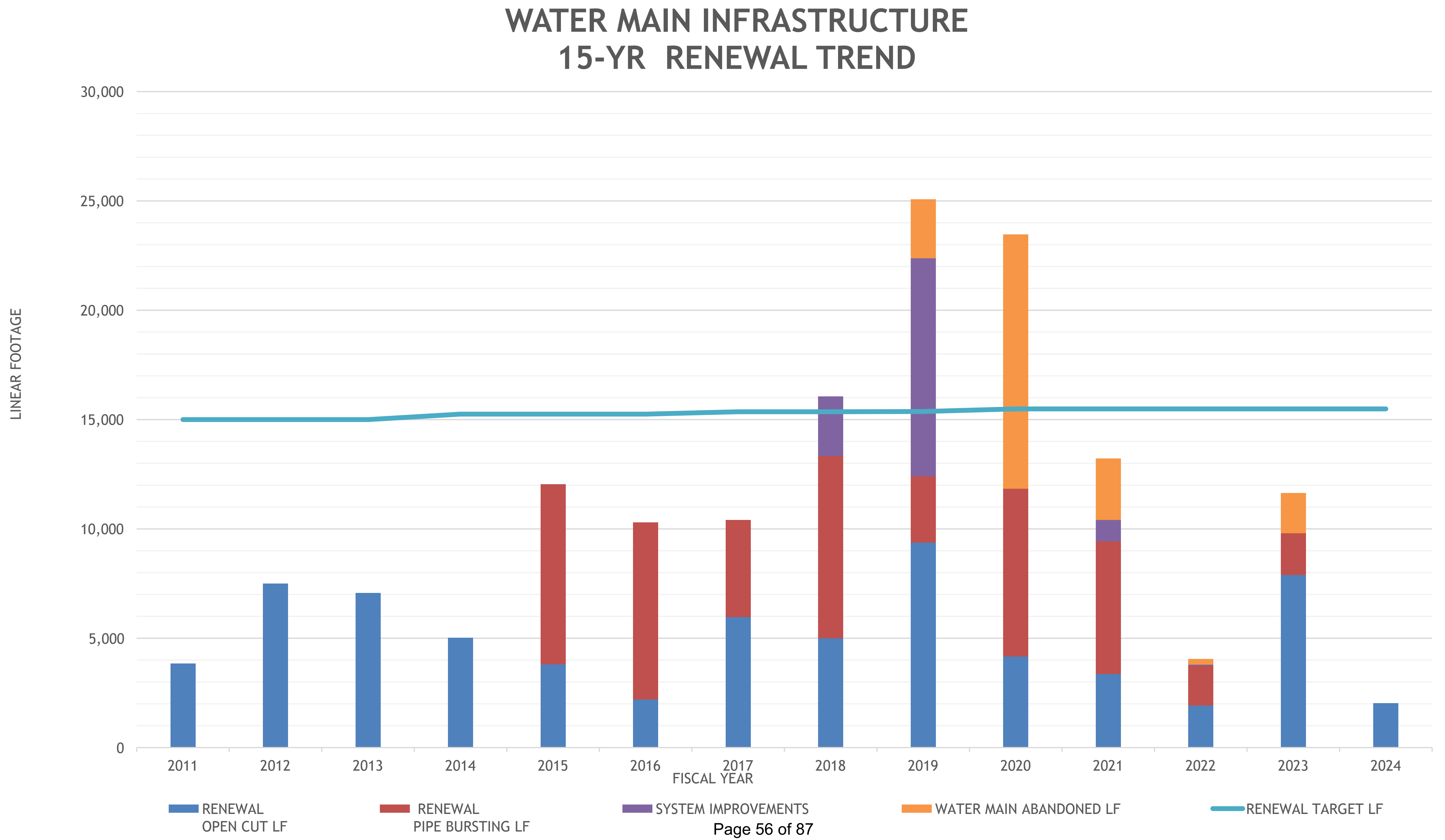
FY 2025 Departmental Budget Discussion

Water Resources Department

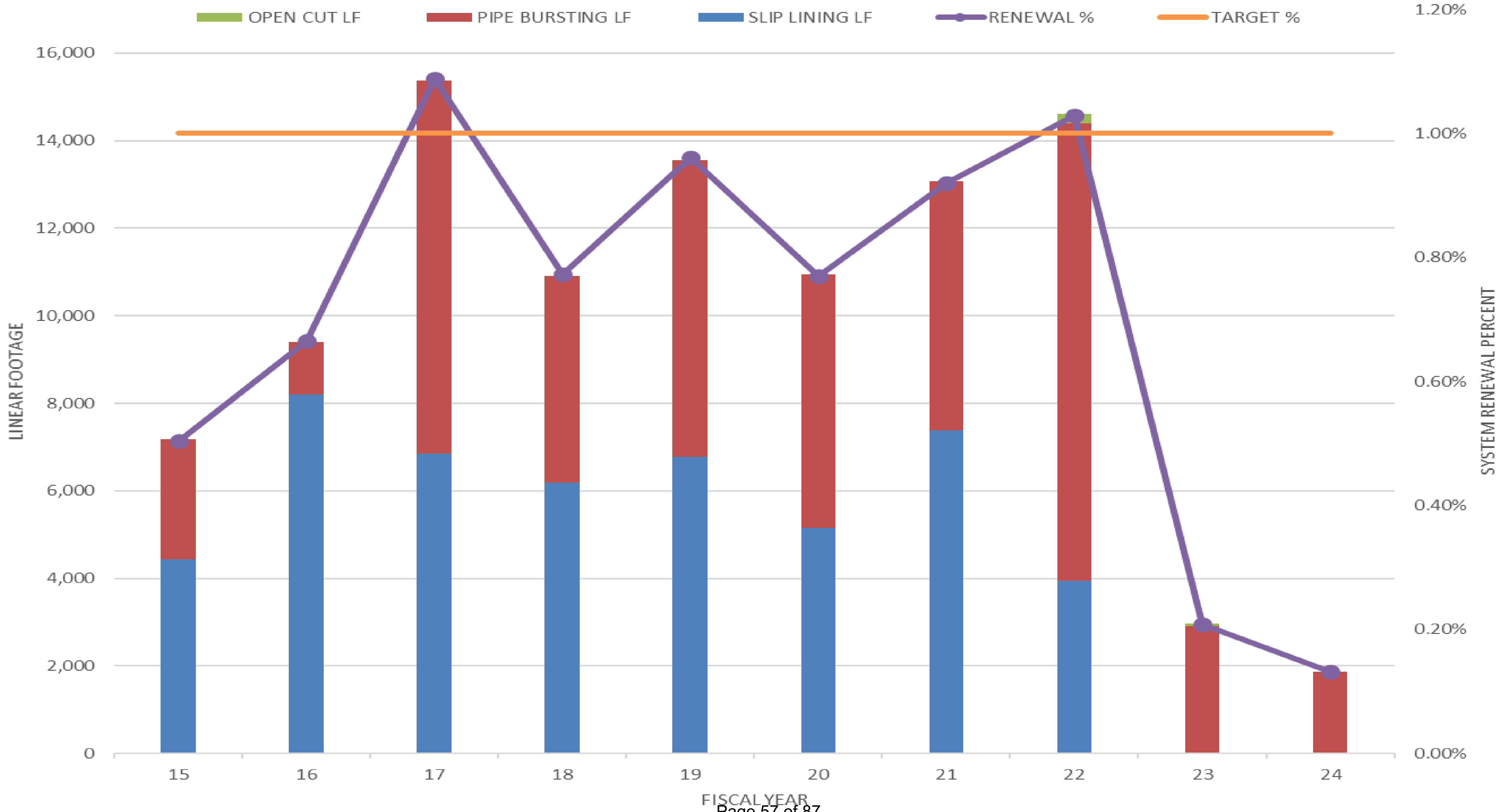
Scott Clark
Director of Water Resources

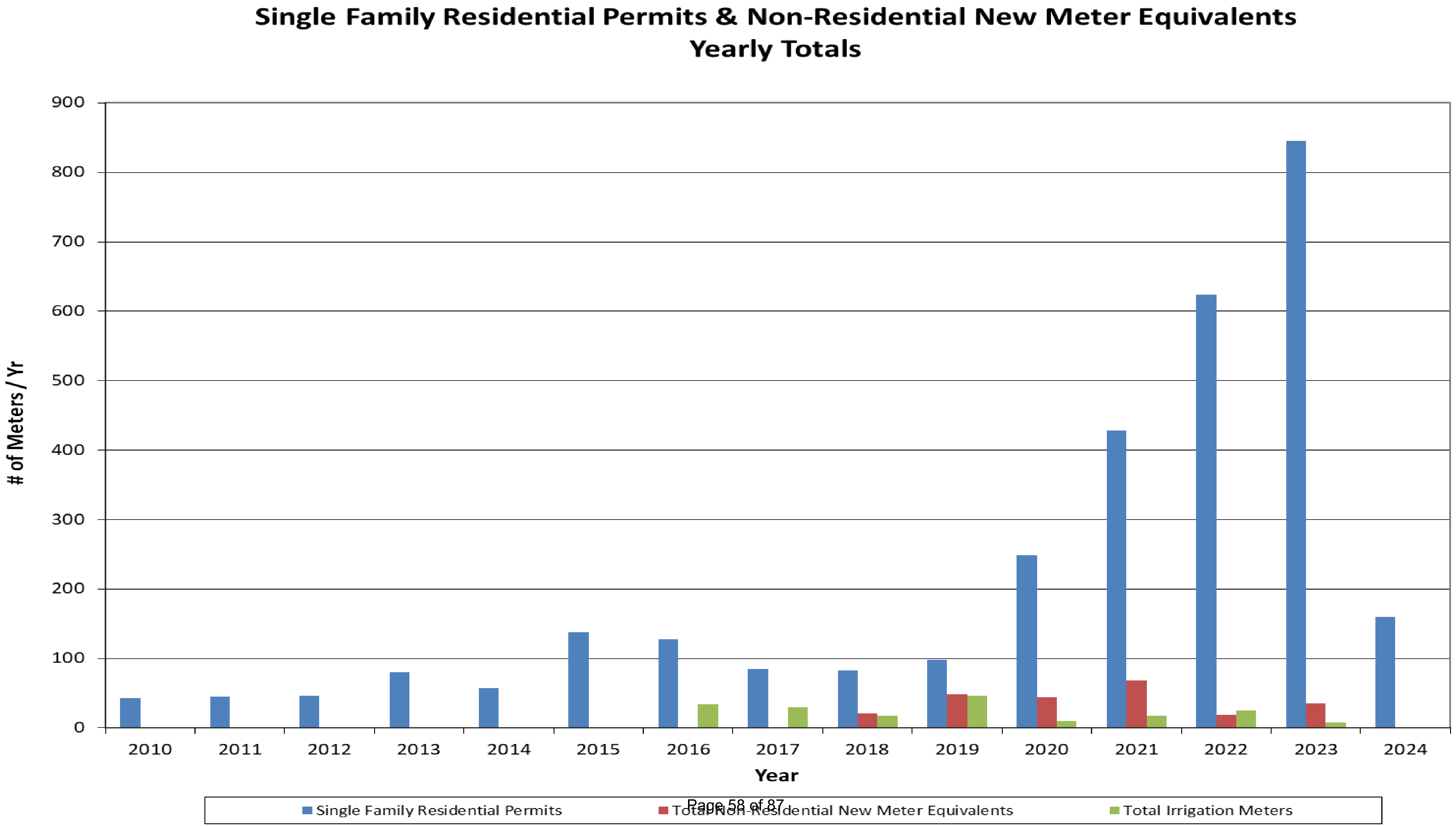
Base Budget

- Focus areas of Base Budget:
- Infrastructure replacement / rehab:
  - Our goal is to replace / rehab at least 1% of water/sewer assets annually
  - Current funding is $1.75 million per year
  - FY25 = $100,000 increase (Costs divided across Divisions 8020 & 8025 cost centers)
- Vehicle and equipment replacements
  - Estimated costs: $1,193,452 across 5 divisions
  - Some garage supported items
- Treatment plant chemicals for WTP and WWTP:
  - Current funding is $2.48 million per year
  - FY25 = $210,000 increase
- Interest / Risk:
  - Potential regulatory compliance failure
  - Potential delays in customer service and emergency response
  - Potential infrastructure failure, loss of service, impacts on consumer confidence


WATER MAIN INFRASTRUCTURE
15-YR RENEWAL TREND
LINEAR FOOTAGE
30,000
25,000
20,000
15,000
10,000
5,000
0
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
FISCAL YEAR
RENEWAL OPEN CUT LF
RENEWAL PIPE BURSTING LF
SYSTEM IMPROVEMENTS
WATER MAIN ABANDONED LF
RENEWAL TARGET LF

SEWER INFRASTRUCTURE RENEWAL




Single Family Residential Permits & Non-Residential New Meter Equivalents
Yearly Totals
# of Meters / Yr
900
800
700
600
500
400
300
200
100
0
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
Year
Single Family Residential Permits
Total Non-Residential New Meter Equivalents
Total Irrigation Meters

Base Budget – Personnel

- Requested Positions()
  - Deputy Director
  - Utility Services Manager
  - Construction & Maintenance Manager
  - WWTP Chief Operator
  - Civil Engineer III
  - Construction Inspector I
  - Maintenance Crew Leader I
- Consequences / Risk
  - Potential regulatory compliance failure
  - Delays in customer service and emergency response
  - Infrastructure failure and loss of service
- Estimated Costs: $1,204,948
  - Equipment / supplies, etc. (one time, non-personnel)
  - Salary / benefits = $800,534 (total for all positions)

Capital Improvements / New Initiatives

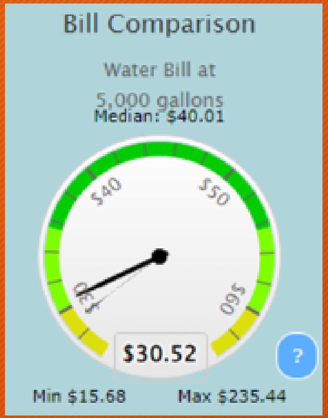
- Project / Strategic initiatives (greater than $100,000)
  - WTP Generator Installation $ 125,000
  - City Works Integration Project $ 500,000
  - WWTP Clarifier Rehabilitation $ 500,000
  - WWTP CL2 Contact Chamber Coating $ 500,000
  - Upper Richardson Creek Outfall Rehab $ 500,000
  - Stewarts Creek Lift Station Upgrade $ 750,000

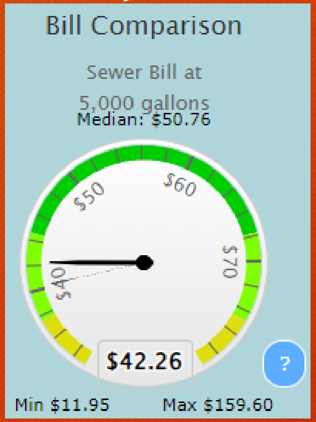
Total $ 2,875,000

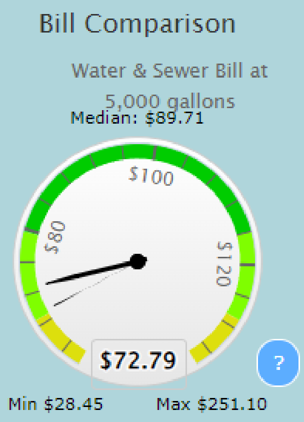
Water / Sewer Rates

How Does Monroe Rates Compare To Other Utilities Across North Carolina?

Water / Sewer Rates

- 2023 NCLM Rates Benchmark Survey, 439 NC utilities, typical residential customer, Monroe compares very favorably!
  - Water: 

Sewer: 

Combined: 

- Success of City’s uniform annual rate increase strategy for past 10 years
  - Raise rates annually to meet current and future needs
  - Avoid rate shock and industry impacts
  - Supports CIP and allows cash funding of expensive capital projects

Water / Sewer Rates (cont.)

- FY 23 Recommendation – Continue practice of uniform annual increases
  - Water and Sewer rate increase **5.0**%
    - Typical residential bill increase = Water $1.47 per month, Sewer = $2.00 per month
    - Top 10 commercial/industrial customers get advanced notice
  - Adjust non-construction fees by CPI 10 year average = 2.77%
  - Adjust construction related fees by CCI 10 year average = 3.29%

Closing Remarks

Questions / Discussion

FY 2025 Departmental Budget Discussion

Information Technology

Base Budget Deficiencies/Deferred

- No items requested by the Information Technology Department were deferred.

Capital Improvements/New Initiatives

- Virtual Server Cluster Refresh: (greater than $100,000)
  - Additional needed for improvement: $241,856
    - The organization currently utilizes a cluster of servers to provide applications and services for employees and citizens. The recommendation is to replace these devices every four years of service.
  - Interest/Need: High
  - Estimated Costs:
    - Materials (non-personnel): $241,856

Capital Improvements/New Initiatives

- Core Switch Replacement: (greater than $100,000)
  - Additional needed for improvement: $287,880
    - In 2022, the core switching used in the organization's infrastructure will be end-of-sale due to supply chain issues. To be proactive, Information Technology will replace these devices before the manufacturer no longer supports them.
  - Interest/Need: High
  - Estimated Costs:
    - Materials (non-personnel): $287,880

Capital Improvements/New Initiatives

- Spine/Leaf Switching for Data Centers: (greater than $100,000)
  - Additional needed for improvement: $575,708
    - Provide spine/leaf switching in the data centers. Currently, all switching is combined into a single redundant switch. By changing to spine and leaf topology, we can provide redundancy to each data center rack. This design would also offer a higher capacity to meet growth demands.
  - Need/Interest: High
  - Estimated Costs:
    - Materials (non-personnel): $575,708

Personnel

- Application Support Specialist:
  - This position is to provide support for various applications utilized by the organization. Responsibilities include application deployment/upgrades, data reporting functions, and support escalations.
  - Estimated Costs:
    - Equipment/supplies, etc. (one time, non-personnel): $13,140.29
    - Salary/benefits, etc.: $56,541/$31,239
    - Total Recurring annual salary/benefits: $87,780

Personnel

- (2) Help Desk Technicians:
  - This position provides first-contact (Tier 1) technical support to the organization. Responsible for answering calls and emails from organization members to improve the first-contact experience. To provide faster response and closure times on Tier 1 support issues (account issues, email, etc.)
  - Estimated Costs:
    - Equipment/supplies, etc. (one time, non-personnel): $26,780.58
    - Salary/benefits, etc.: $102,762/$59,747
    - Total Recurring annual salary/benefits: $162,509

Priorities

- Capital:
  1. Virtual Cluster Refresh
  2. Core Switch Replacements
  3. Spine/Leaf Switching

- Personnel:
  1. Application Support Specialist
  2. Help Desk Technician

FY 2025 Departmental Budget Discussion

Energy Services

Electric Division

Natural Gas Division

Base Budget Deficiencies – Project Specific
Electric

Account	Description	Base Budget	Increase	Recurring	Purpose
5408210 432040	Engineering	$159,500	$30,000	No	Engineering Services to assist with Growth
5408210 443050	Software License	$100,496	$5,000	Yes	Energy Efficiency auditing software license.
5408210 453010	Telecommunications	$5,772	$1,440	Yes	Increase in City owned devices for employees.
5408210 458020	Training and Travel	$64,570	$4,400	Yes	Additional Career Development Training
5408220 461510	PC’s and Peripherals	$6,601	$17,318	No	Transition from desktop computers to field laptops.

Base Budget Deficiencies - Inflationary Increases

Electric

Account	Description	Base Budget	Increase	Recurring	Purpose
5408210 456010	Uniforms and Shoes	$2,985	$3,000	Yes	Inflationary increases
5408220 434070	Tree Trimming	$393,600	$85,800	Yes	Inflationary increases on contract labor
5408220 443550	Repairs & Maint of Poles	$76,000	$12,000	Yes	Inflationary increases on contract labor

Base Budget NEW – Project Specific
Electric

Account	Description	Base Budget	Increase	Recurring	Purpose
5408220 461510	PC's and Peripherals	$6,601	$17,318	No	Transition from desktop computers to field laptops.

Capital Equipment - New and Replacements
Electric

- New Equipment (greater than $100,000)
  - No new equipment requested

- Replacement Vehicle/Equipment (greater than $100,000)
  - 2015 55’ Bucket Truck #2689 = $375,000
  - 2005 SC95 Tractor w/ Cab #2215 = $150,000

Capital Improvements Projects
Electric

Project	Description	Amount	Purpose
EL 0905	Substation Reliability/Capacity Improvements	$100,000	Engineering, materials, labor, and equipment for substation/electric system improvements
EL 1101	Subdivision Fund	$2,750,000	Materials, labor, and equipment to install electric infrastructure in new subdivisions
EL 2001	NCDOT Relocation Projects	$500,000	Engineering, materials, labor, and equipment to relocate electric and fiber facilities
EL 1701	AMI Metering Solutions	$500,000	Consulting services for AMI planning. Materials, labor, and equipment for AMI
EL 2201	SCADAmate Switch	$100,000	Materials, labor, and equipment for installing automated electric switches
EL 2303	Substation Modernization	$600,000	Engineering, materials, labor, and equipment for substations
EL 2304	Work Management System	$100,000	Consulting for City Works development

Personnel
Electric

- Business Systems and Process Manager
  - Manager to lead the implementation and integration of City Works, AMI, and additional new technologies to improve workforce efficiency and customer service.
  - Need: The position is necessary to have a primary person overseeing the implementation, integration, and deployment of new technologies.
  - Estimated Costs:
    - Equipment/supplies, etc. (one time, non-personnel):$10,640
    - Salary/benefits, etc.: $125,255/$49,429
    - Total Recurring annual salary/benefits: $174,684

Priorities
Electric

- Deficiencies:
  1. Tree Trimming
  2. PC's and Peripherals
  3. Repairs & Maint of Poles
  4. Engineering
  5. Training and Travel
  6. Telecommunications
  7. Software License
  8. Uniforms

- Personnel:
  1. Business Systems and Process Engineer

- Capital Equipment:
  1. Bucket Truck
  2. Tractor with Cab

- Capital Projects:
  1. Subdivision Fund
  2. Work Management System
  3. NCDOT Relocation Projects
  4. Substation Modernization
  5. AMI Metering Solutions
  6. Substation Reliability/Capacity
  7. SCADAmate Switch

Base Budget Deficiencies – Project Specific
Natural Gas

Account	Description	Base Budget	Increase	Recurring	Purpose
5608420 432010	Legal Services	$15,000	$80,000	No	Increase due to additional long term NG purchases transactions
5608420 434030	Technical Meter Repairs	$45,000	$25,000	Yes	Increase due to additional contract labor and spare parts for Commercial Meters and Reg Stations

Base Budget Deficiencies - Inflationary Increases
Natural Gas

Account	Description	Base Budget	Increase	Recurring	Purpose
5608420 433020	Mooresville	$56,650	$3,450	Yes	Inflationary increases included in the contract

Capital Equipment - New and Replacements
Natural Gas

- New Equipment (greater than $100,000)
  - Purchase a new Skid Steer with Brush Cutter Attachment for Right-of-Way Maintenance = $125,000

Capital Improvements Projects
Natural Gas

Project	Description	Amount	Purpose
NG 1402	Subdivision Fund	$2,500,000	Materials, labor, and equipment to install natural gas mains in new subdivisions
NG 1501	Transmission Pipeline Integrity	$230,000	Consulting services, labor, equipment to complete integrity management.
NG 1503	System Reinforcement Projects	$65,000	Materials, labor, and equipment to install natural gas main system improvements
NG 1701	Revenue Based Expansions	$100,000	Materials, labor, and equipment to install natural gas main expansions upon customer request
NG 1901	NCDOT Relocation Projects	$500,000	Engineering, materials, labor, and equipment to relocate natural gas facilities

Capital Improvements Projects
Natural Gas (Cont.)

Project	Description	Amount	Purpose
NG 1902	AMI Meter Solutions	$500,000	Consulting services for AMI planning. Materials, labor, and equipment for AMI
NG 2201	LNG Facility Upgrades/Additional Storage	$75,000	Engineering, materials, labor, and equipment to upgrade and expand the LNG facility
NG 2302	Work Management System	$300,000	Consulting for City Works development

Personnel
Natural Gas

- No new additional personnel requested

Priorities
Natural Gas

- Deficiencies:
    1. Legal Services
    2. Mooresville
    3. Technical Meter Repairs

- Personnel:
    1. N/A

- Capital Equipment:
    1. Skid Steer

- Capital Projects:
    1. Subdivision Fund
    2. Transmission Integrity Management
    3. Work Management System
    4. NCDOT Relocation Projects
    5. AMI Metering Solutions
    6. LNG Upgrades/Additional Storage
    7. System Reinforcements
    8. Revenue Based Expansions