

Overview

- Current operational funding by division
- Current projects and 5 year project plan
- Funding sources
 - Water/Sewer rates and fees
- Areas of concern
- Future large-scale projects
- Financial Plan (Eric Olmedo)

Divisional Funding

Water Sewer Enterprise Fund

Operational Administration – \$2.6 million (\$1.2M in PTRWA)

Ward Water Treatment - \$3.1 million

Eastside Wastewater Treatment - \$2.8 million

Westside Wastewater Treatment – \$1.6 million

Residuals Management – \$1.4 million

Laboratory – \$0.9 million

Maintenance – \$3.0 million

Mains (Sewer Collection & Water Distribution) – \$4.1 million

Total Budget: \$19.5 million with 138 employees



Regional Water Agreement

- Piedmont Triad Regional Water Authority (PTRWA)
- Annual Average 2.28 Million gallons / day
- PTRWA Permitted for 12 Million gallons / day
- \$845,000 annual payments for water
- \$310,000 in membership dues
- 19% Partner of the Authority with 2 Board Members



Ward Water Treatment Plant



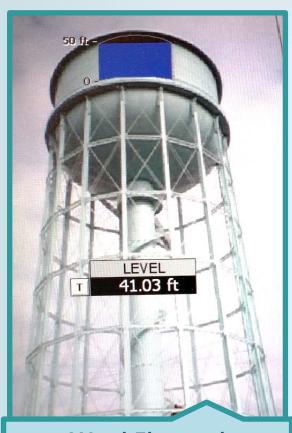
- Annual Avg 12.39 MGD (FY14-15)
- Permitted for 24 MGD
- Safe Yield for Lakes 22 MGD

- 2 Source Water Lakes: Arnold Koonce Lake and Oak Hollow Lake
 - \$48 million upgrade 2022-2023 (Built in 1980's)

Remote Storage Tanks

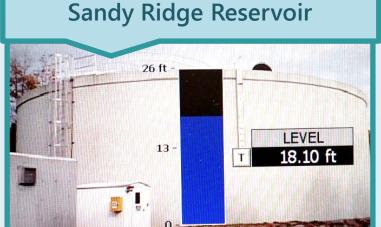
Upgrades for water demand, fire flow protection, and age of tanks.

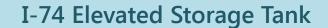
Expansion due to new service area



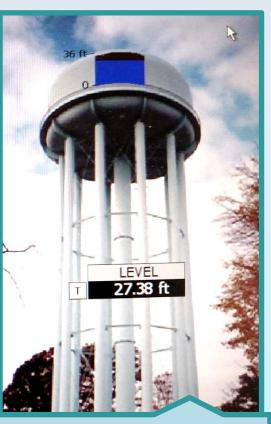
Ward Elevated Storage Tank

\$3.4 M – Under Contract (Built 1929)









Lexington Elevated Storage Tank

Needs replacement by 2025



Wastewater Treatment Plant



2004 upgrade \$60 million

2025 upgrade \$100 million

Partnership

Eastside Wastewater Treatment Plant 26 MGD

High Point 21.3 MGD

Archdale 2.5 MGD

Jamestown 2.0 MGD

Sedgefield 0.225 MGD

Wastewater Treatment Plant



\$1.5 million stream restoration prior to upgrade



Lift Station Upgrades

- 23 Lift Stations
- 2021/2022 Upgrades
 - (required based on future regulations)
 - Riverdale: \$40 million
 - Waterview: \$10 million





Water & Sewer Mains





- ~ 650 Miles Sewer Pipe
- ~ 620 Miles Water Pipe
- ~ 6,000 CHP Maintained Hydrants
- ~ 41,500 Customer Accounts

 The lines are old, breaking more frequently. In a normal year there are approximately 30 sewer line breaks and 200 water line breaks.



Life Cycle Water/Sewer Lines Replacement

Mainline Pipes Replaced or Rehabbed Each Year	Water	Sewer
Total Miles of Pipe over the City	613	671
Replacement Target	50 years	50 years
Annual Replacement Target	2.0%	2.0%
% of Existing Pipeline Rehabbed/Replaced - 5 year avg	0.18%	0.12%
Replacement Schedule based on current % replaced	556 years	833 years
Average \$ to replace 1 mile (in pavement)/foot	\$200	\$200
1 Mile = 5,280 feet	5,280	5,280
Cost to replace 1 Mile of Water/Sewer Line	\$1,056,000	\$1,056,000

Note: Information from NC Benchmarking Project & CHP Lawson financial system



5-Year Projects Funding Plan

Duringto Or Francisco Comme	2016 2017	2017 2010	2010 2010	2010 2020	2020 2021	Tatal Diamand
Projects & Funding Source	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	Total Planned
PAYG - Enterprise Funds						
Line Replacements	\$3,300,000	\$2,750,000	\$2,750,000	\$2,750,000	\$2,750,000	\$14,300,000
Demolition of Kearns WTP	\$1,250,000					\$1,250,000
Master Plan/Monitoring/Meter CO	\$675,000	\$250,000	\$250,000	\$300,000	\$300,000	\$1,775,000
HVAC/Pumps/Electrical/ Outfall Upgrades	\$525,000	\$250,000	\$550,000		\$1,700,000	\$3,025,000
New Water/Sewer Lines	\$200,000	\$540,000	\$300,000	\$300,000	\$300,000	\$1,640,000
Sludge Removal/Tank Maintenance	\$400,000	\$475,000	\$475,000	\$475,000	\$762,500	\$2,587,500
PAYG - Enterprise Funds	\$6,350,000	\$4,265,000	\$4,325,000	\$3,825,000	\$5,812,500	\$24,577,500
Revenue Bonds						
Pump/Drives/Electrical/Lift Station/ WWTP Upgrades	\$22,000,000				\$1,800,000	\$23,800,000
Water/Sewer Utilities Relocation	\$3,062,800	\$800,000	\$3,400,000			\$7,262,800
New Water/Sewer Lines	\$2,890,000	\$2,700,000	\$8,550,000		\$8,600,000	\$22,740,000
Line Replacements		\$1,500,000	\$28,000,000	\$3,000,000		\$32,500,000
Equipment Upgrades				\$2,500,000	\$8,000,000	\$10,500,000
Alternatives - Future Projects				\$4,300,000	\$4,500,000	\$8,800,000
Revenue Bonds	\$27,952,800	\$5,000,000	\$39,950,000	\$9,800,000	\$22,900,000	\$105,602,800
Total CIP Fund	\$34 302 800	\$9.265.000	\$44.275.000	¢13 625 000	\$28 712 500	\$130 180 300



lap/	Merei	rees

	lap/	Wete	r Fees
Effective 1007			

Water Service and Meter

5/8" Water tap (service line, meter setter and box)

1 1/2" meter only (box & yoke - an additional \$200)

2" meter only (box & yoke - an additional \$315)

Hydrant Meter

5/8" hydrant meter deposit - refundable

3" hydrant meter deposit - refundable

5/8" Meter set in parallel with an existing meter (meter, setter and box)

Meter Set by Contractor on Private Property

Sewer Service Line with Clean-out

Charge for additional trench for water and sewer when not necessary

1" water tap (service line, meter setter, and box) For residential

5/8" Water meter installed

1" meter installed

3" meter with by-pass

4" meter with by-pass

5/8" meter, box and yoke

1 1/2" meter, box and yoke

1" meter, box and yoke

2" meter, box and yoke

Application Fee

4" sewer tap

4" sewer clean-out

6" sewer clean-out

home only

Effective 1997				
	Meter Fees	Current Price	Current Cost	Suggested Price

340

473

396

2,222

325

445

2,762

3,057

1,809

219

259

N/A

2,166

\$ \$

\$

\$

130

980

350

170

1,040

1,055

2,450

2,930

270

390

865

50

200

800

1,010

875

155 195

1,260

500

350

2,170

475

400

2,225

325

445

2,775

3,100

360

475

695

830

50 200

800

1,825

Actual Cost

Actual Cost

Actual Cost

\$

	iap	IAICCCI	
Effective 1997			



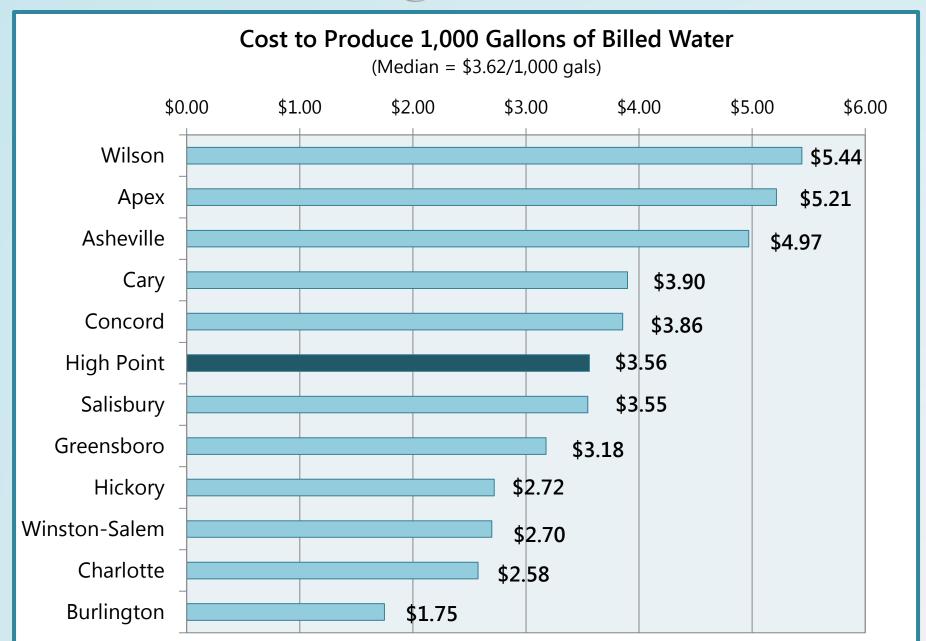
Tap/Meter Fees Comparison

(Residential Customer)

Wat	er		Sewer	
Winston-Salem				
3/4" Meter	\$50	4" Connectio	n	\$1,300
3/4" Connection	\$825			-
Water Assessment Fee (110) If x \$21) \$2,310	Sewer Assess	ment Fee (110 lf x \$45)	4,950
	\$3,185			\$6,250
	Total Charge - Water a	and Sewer	\$9,435	
Greensboro				
5/8" Meter	\$185	4" Connectio	n	-
Tap Fee - new residence	Contractor			-
Capacity Fee	\$980	Capacity Fee		<u>\$990</u>
	\$1,165			\$990
	Total Charge - Water a	nd Sewer	\$2,155	
City of High Point				
3/4" Meter	\$130	4" Connectio	n	\$1,010
Tap Fee	\$980			-
Capacity Fee		Capacity Fee		
	\$1,110			\$1,010
	Total Charge - Water a	nd Sewer	\$2,120	



Benchmarking Data from UNC



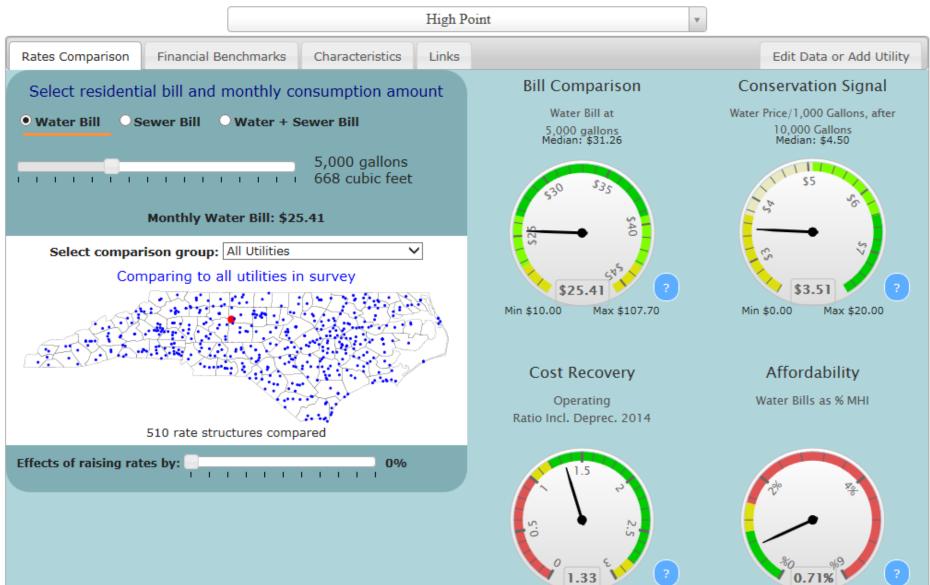


NC Water and Wastewater Rates Dashboard

Rates as of January 2015

Last updated: April 9, 2015





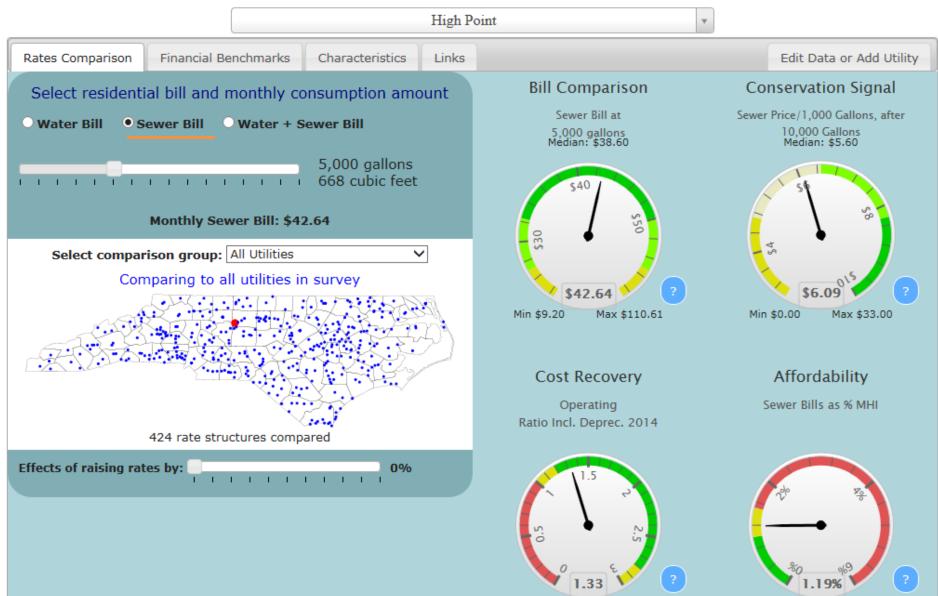


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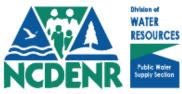


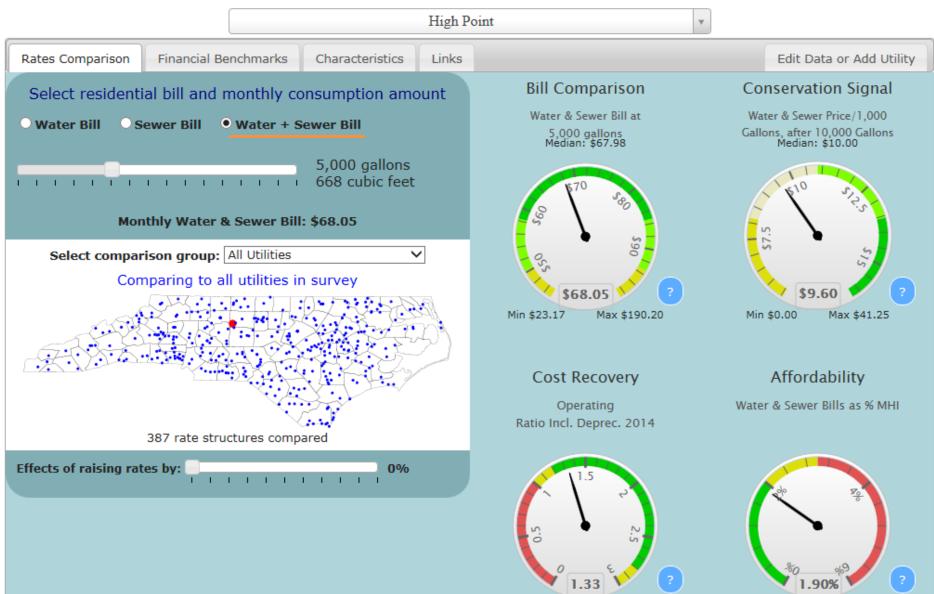


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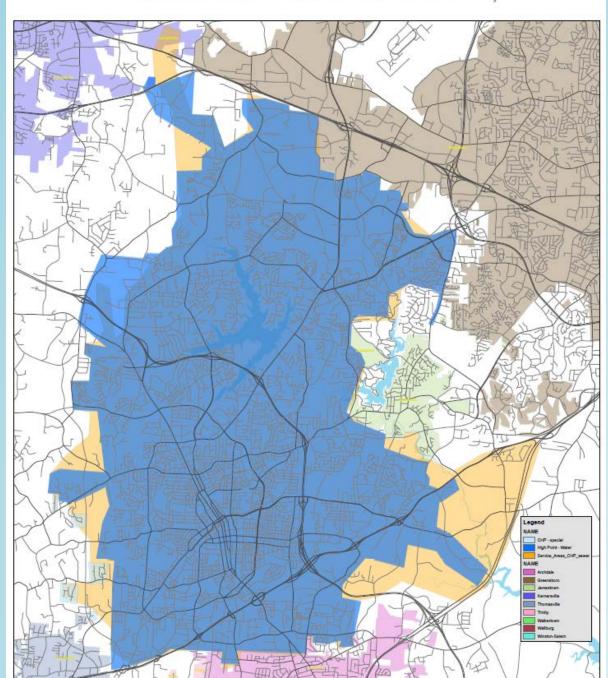
Areas of Concern

- Revenue: growth rate around 1% per year
 - Need larger customer base
- Future Compliance: changes by DWQ and EPA
- Manpower:
 - Current staff is aging out
 - Inability to obtain trained staff replacements
 - FY16-17 requested apprentice positions for future vacancies
- Expanded service area and additional maintenance requirements
- Service to private developments



May Date 27 Am 2016 May by The Agent

Service Area





Future Large-Scale Projects

- Ward Water Plant rehab: \$48 million
- Eastside Wastewater Treatment BNR upgrade: \$100 million
- Biosolids disposal
- Lift station upgrades
 - Riverdale: \$40 million
 - Waterview: \$10 million
- Interbasin transfers
- PTRWA plant upgrade (48 MGD): \$40 million
 - Transmission line from new plant to City: \$10-20 million
- Water distribution and collection system upgrades



Historical Rate Increases

FISCAL YEAR	EFFECTIVE DATE	WATER % CHANGE	SEWER % CHANGE
FY 2007	10/1/2006	4.90%	4.90%
FY 2008	11/8/2007	4.85%	4.85%
FY 2009	10/1/2008	5.90%	5.90%
FY 2010	10/1/2009	5.00%	5.00%
FY 2011	10/1/2010	4.90%	4.90%
FY 2012	10/1/2011	4.90%	4.90%
FY 2013	no increase	0.00%	0.00%
FY 2014	no increase	0.00%	0.00%
FY 2015	7/1/2014	3.00%	3.00%
FY 2016	10/1/2015	3.50%	3.50%

CITY OF HIGH POINT WATER & SEWER FUND

SCENARIO 1 - No rate increase, no future debt for capital									
		Projections							
	2017	2018	2019	2020	2021	2022	2023	2024	2025
Beginning Balance	23,766,358	19,956,260	18,998,777	18,310,152	19,634,971	17,080,403	16,479,524	17,258,676	17,845,928
Total Operating Revenues	47,813,789	48,234,653	48,712,605	49,218,809	49,697,001	50,194,210	50,697,942	51,200,947	51,712,322
Pay as you Go Financing	(6,350,000)	(4,265,000)	(4,325,000)	(3,825,000)	(6,812,500)	(5,000,000)	(5,000,000)	(5,000,000)	(5,000,000)
Total Revenues	41,463,789	43,969,653	44,387,605	45,393,809	42,884,501	45,194,210	45,697,942	46,200,947	46,712,322
Total Sources of Funds	65,230,147	63,925,913	63,386,381	63,703,961	62,519,472	62,274,613	62,177,466	63,459,623	64,558,249
Personnel	8,872,602	9,290,256	9,743,263	10,191,243	10,669,344	11,175,132	11,704,493	12,255,917	12,836,541
Operating	17,823,958	18,166,409	18,517,588	18,877,788	19,247,319	19,626,503	20,015,680	20,415,208	20,825,465
Operating Capital	171,110	174,874	178,721	182,653	186,672	190,778	194,975	199,265	203,649
Debt Service	18,406,217	17,295,597	16,636,657	14,817,306	15,335,734	14,802,676	13,003,642	12,743,305	12,666,136
Total Expenses	45,273,886	44,927,136	45,076,229	44,068,990	45,439,068	45,795,089	44,918,791	45,613,695	46,531,791
Ending Balance	19,956,260	18,998,777	18,310,152	19,634,971	17,080,403	16,479,524	17,258,676	17,845,928	18,026,459
50% Fund Balance Policy	22,636,943	22,463,568	22,538,115	22,034,495	22,719,534	22,897,544	22,459,395	22,806,847	23,265,895
Amount Above FB Minimum	(2,680,683)	(3,464,791)	(4,227,963)	(2,399,525)	(5,639,131)	(6,418,020)	(5,200,720)	(4,960,920)	(5,239,436)

CITY OF HIGH POINT WATER & SEWER FUND SCENARIO 2 - 4% rate increase next 3 years.

2017

23,766,358

47,813,789

1,420,462

(6,350,000)

42,884,250

66,650,608

8,872,602

17,823,958

18,406,217

45,273,886

21,376,722

22,636,943

(1,260,221)

171,110

2018

21,376,722

48,234,653

1,912,889

1,504,426

(5,000,000)

46,651,967

68,028,689

9,290,256

18,166,409

17,295,597

1,490,000

46,417,136

21,611,553

23,208,568

(1,597,015)

174,874

2019

21,611,553

48,712,605

1,932,017

2,025,785

1,580,112

(5,000,000)

49,250,519

70,862,072

9,743,263

18,517,588

16,636,657

1,520,000

46,596,229

24,265,843

23,298,115

967,728

178,721

Beginning Balance

Current Total Operating Revenues

Oct. 1, 2016 - 4% Rate Increase

Oct. 1, 2017 - 4% Rate Increase

Oct. 1, 2018 - 4% Rate Increase

Pay as you Go Financing

Total Revenues

Total Sources of Funds

Personnel

Operating

Operating Capital

Existing Debt Service

2016 Debt Service (\$35 million issue)

2018 Debt Service (\$35 million issue)

2020 Debt Service (\$35 million issue)

Total Expenses

Ending Balance

50% Fund Balance Policy

Amount Above FB Minimum

\$5 million paygo annually, \$105 million in future debt (2016, 2018, 2020)

2020

24,265,843

49,218,809

1,951,338

2,046,806

2,128,678

(5,000,000)

50,345,630

74,611,473

10,191,243

18,877,788

14,817,306

2,355,000

1,534,700

47,958,690

26,652,783

23,979,345

2,673,438

182,653

Projections

2021

26,652,783

49,697,001

1,970,851

2,066,714

2,149,383

(5,000,000)

50,883,949

77,536,732

10,669,344

19,247,319

15,335,734

2,350,000

1,565,600

49,354,668

28,182,063

24,677,334

3,504,729

186,672

2022

28,182,063

50,194,210

1,990,559

2,087,391

2,170,886

(5,000,000)

51,443,047

79,625,110

11,175,132

19,626,503

14,802,676

2,350,000

2,425,650

1,580,741

52,151,480

27,473,630

26,075,740

1,397,890

190,778

2023

27,473,630

50,697,942

2,010,465

2,108,336

2,192,670

(5,000,000)

52,009,413

79,483,043

11,704,493

20,015,680

13,003,642

2,350,000

2,420,500

1,612,568

51,301,859

28,181,185

25,650,929

2,530,255

194,975

2024

28,181,185

51,200,947

2,030,570

2,129,261

2,214,431

(5,000,000)

52,575,208

80,756,393

12,255,917

20,415,208

12,743,305

2,355,000

2,420,500

2,498,420

52,887,614

27,868,779

26,443,807

1,424,971

199,265

2025

27,868,779

51,712,322

2,050,875

2,150,528

2,236,549

(5,000,000)

53,150,274

81,019,052

12,836,541

20,825,465

12,666,136

2,355,000

2,420,500

2,493,115

53,800,406

27,218,647

26,900,203

318,444

203,649