

# City of Stamford Budget Presentation FY 2016-2017

**Water Pollution Control Authority**  
March 15, 2016





# *Water Pollution Control Authority*

## ■ Purpose / Mission

*Provide wastewater collection and treatment that meets regulatory requirements for the City of Stamford, and conveyance and treatment for the Town of Darien. Cost effectively construct, operate and maintain wastewater facilities to meet the needs of our customers while providing a safe and rewarding work environment for our staff.*



# ***Water Pollution Control Authority***

## ■ **Services**

- *Wastewater collection and treatment for the City*
- *Wastewater treatment for Town of Darien*
- *Operate and maintain Hurricane Barrier and Storm Water Pumping Stations*

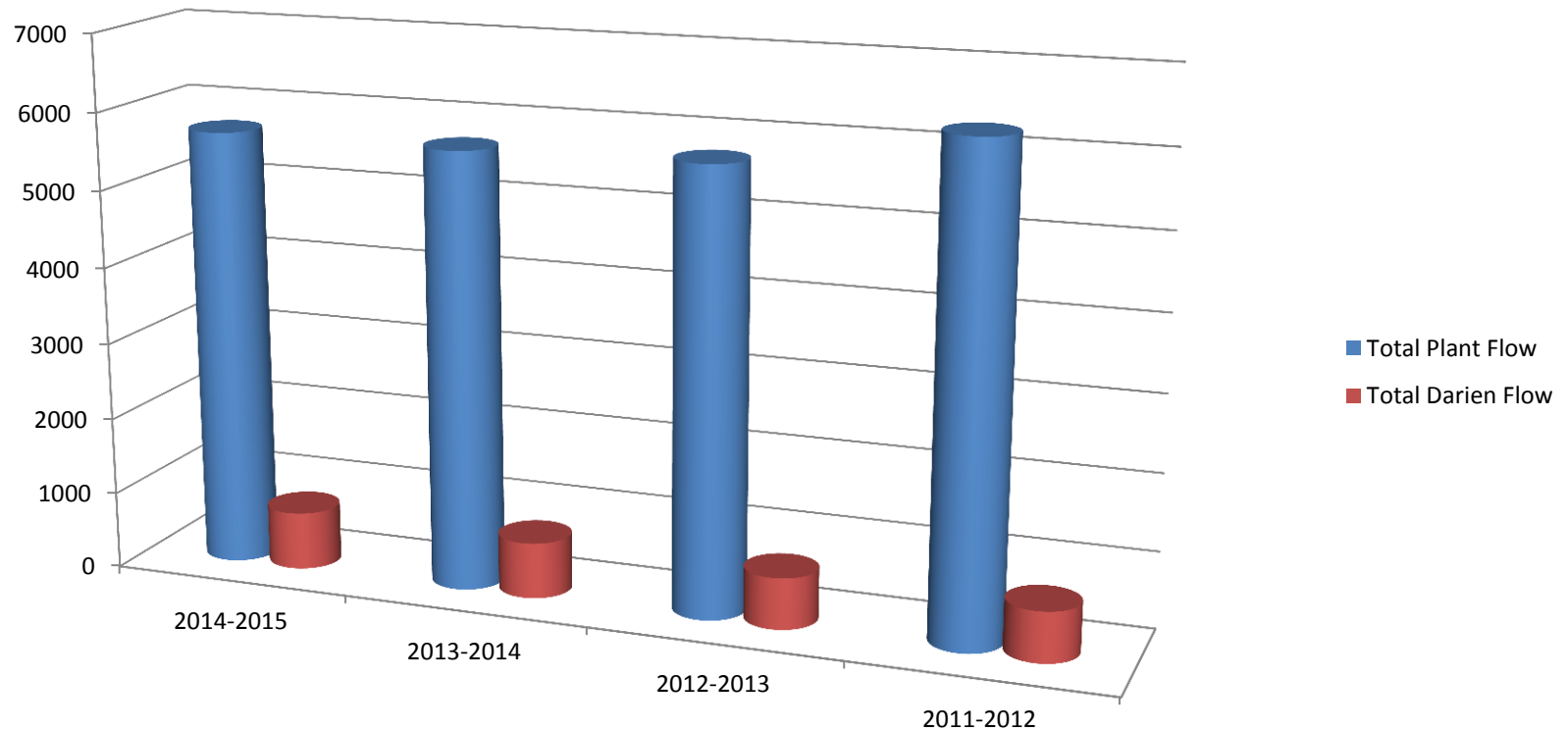
## ■ **Facilities**

- 250 miles of sanitary sewers
- 23 Wastewater Pumping Stations
- Advanced Water Pollution Control Facility
- 4 Storm Water Pumping Stations

## ■ **Staff**

- 44 Full time staff

# Stamford/Darien Treated Wastewater Flow





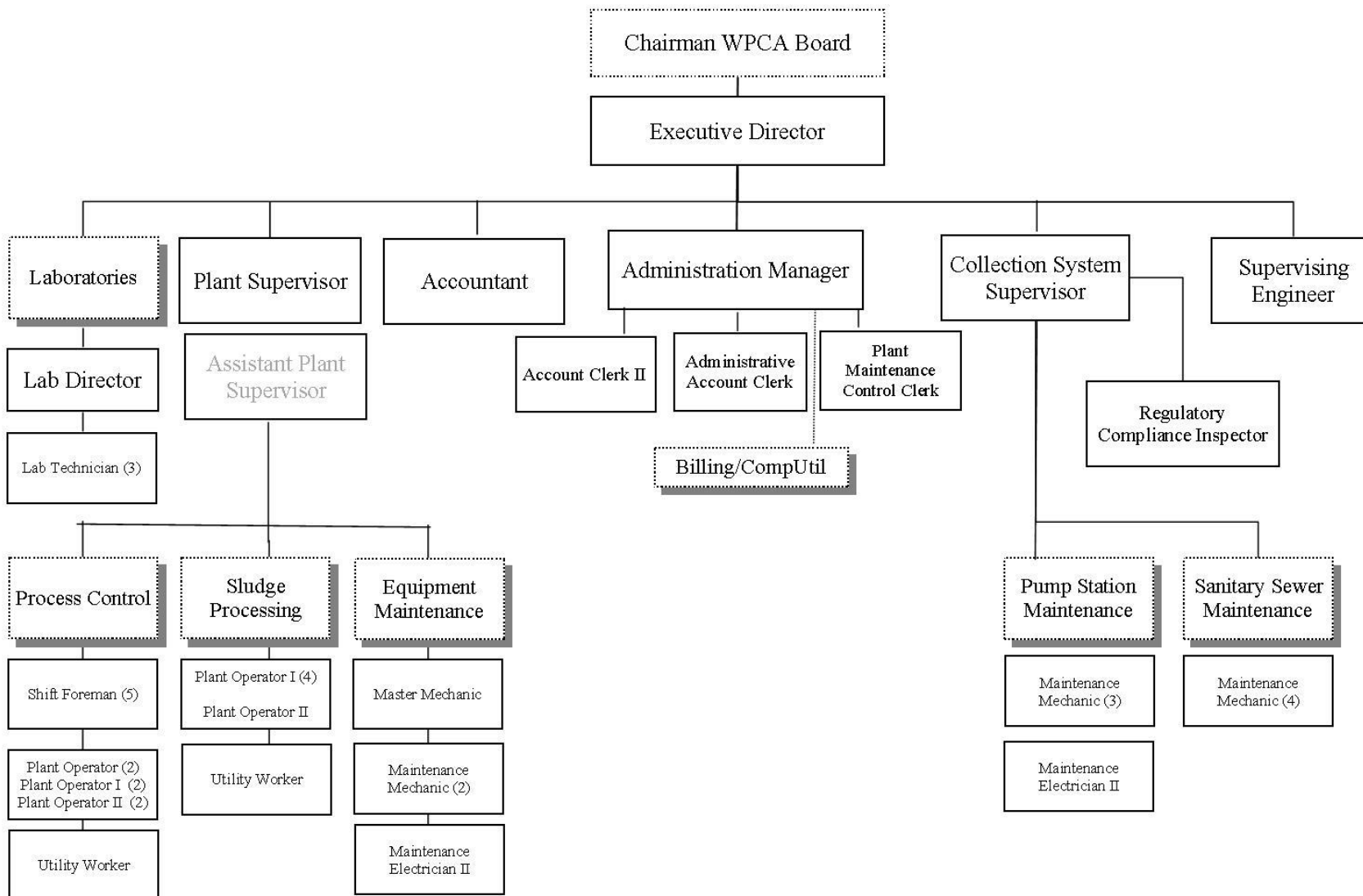
# ***Water Pollution Control Authority***

## ■ **Costs Centers**

- WPCA Administration*
- WPCF Process Control*
- WPCF Laboratory*
- WPCF Sludge Processing and Disposal*
- Regulatory Compliance*
- WPCF Building Maintenance*
- WPCF Equipment Maintenance*
- Pump Station Maintenance*
- Sanitary Sewer Maintenance*
- Hurricane Barrier and Pump Stations Maintenance*
- Customer Billing Services*



**City of Stamford  
Office of Operations  
Water Pollution Control Authority**





## ***2015-2016 Highlights***

### ***SWPCA Operation Accomplishments***

- Provided a high degree of wastewater treatment achieving the sale of \$1.5 million in nitrogen credits
  
- Significantly reduced odor emissions
  - Repaired existing odor control equipment and improved its operation
  - Added odor control equipment for sludge dryer, sludge trailers and septage receiving
  
- Significantly reduced permit exceedances



# 2015-2016 Highlights

## **SWPCA Operation Accomplishments** (cont'd)

- Initiated an Infiltration and Inflow (I/I) Removal Program
  - A multi-phase, multi-year program
  - Installed 70 flow meters and 4 rain gauges at key locations in the collection system
  - Collecting flow metering data from February 2015 through July 2016
  - Use flow data to identify sub areas having the greatest infiltration and inflow (80% of I/I typically found in 20% of collection system)
  - Next phase involves smoke testing, dye testing and TV inspection of sewers to identify sources of groundwater and rain water (I/I) entering system
  - Repair sewers to remove the source of groundwater and rain water





# ***2015-2016 Highlights***

## ***SWPCA Financial Accomplishments***

- On line payment of sewer user charge and credit card payment at Government Center starting with April 2016 billing
- SWPCA Board formally adopted Financial Policies – permanently protect and maintain financial stability
- Strengthened SWPCA's financials
  - Will reduce pooled cash due to City from **\$8 million** (6/30/13) to **\$0** (projected 6/30/16) - 2 years ahead of schedule contained in MOA
  - Increase cash reserve to **\$6 million** (projected 6/30/16)



# 2016-2017 Goals

- Achieve financial benchmarks
  - Maintain reasonable sewer user rates with no major increases projected
  - Keep operating expenses at or below budget
  - Meet targeted revenue goals (>95% collection rate)
  - Increase cash reserve to \$7 million
- Capital Improvements
  - Complete SCADA System Upgrade
  - Construction of improved flow distribution to Final Clarifiers
  - Construction of Dyke Lane PS Electrical System Upgrade and Emergency Power Generator
  - Begin design of Upgrade of the Raw Sewage Pump Station and Aeration Blowers
- Hire an Assistant Plant Supervisor (Class IV Operator)



# ***SWPCA Changes and Challenges***

## ***Changes***

- Aggressive enforcement of fats oil and grease (FOG) ordinance for food processing establishments to prevent sewer back-ups and overflows

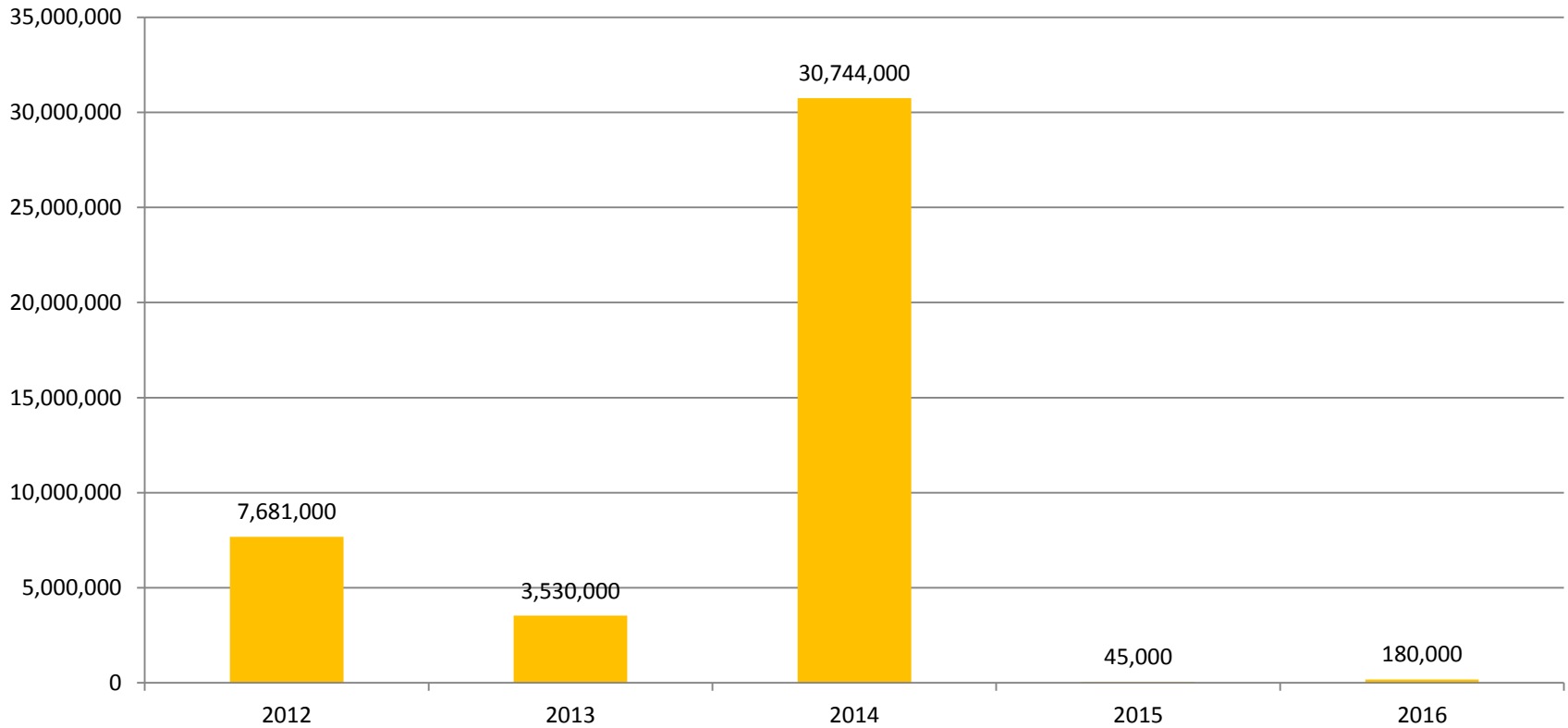
## ***Challenges***

- Key personnel approaching retirement age
- Difficulty hiring Class III and IV Operators
- Portions of WPCF are aged and need upgrading
  - UV system, raw sewage pump station and aeration blowers to be upgraded by FY 18-19



# Performance Measure

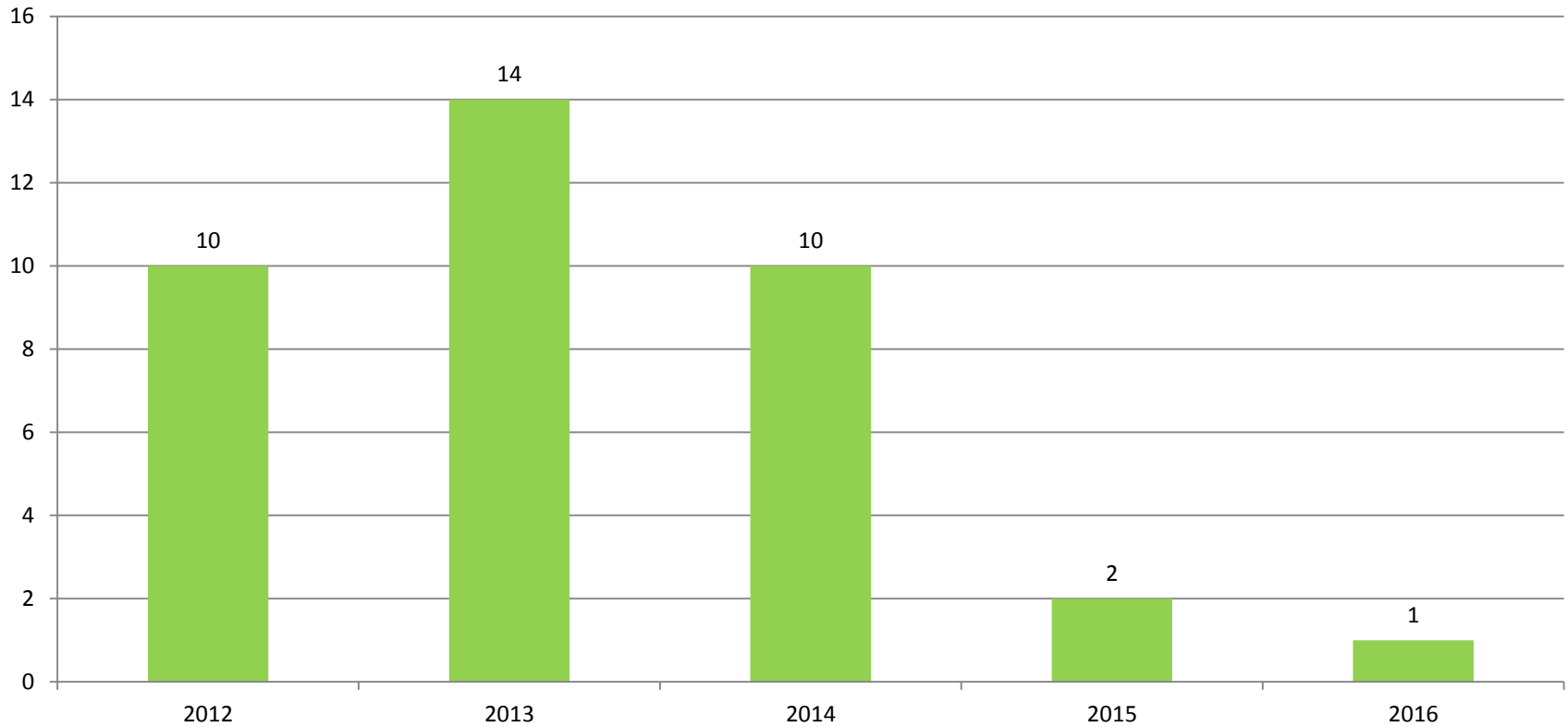
## Bypass Volume (gallons)





# Performance Measure

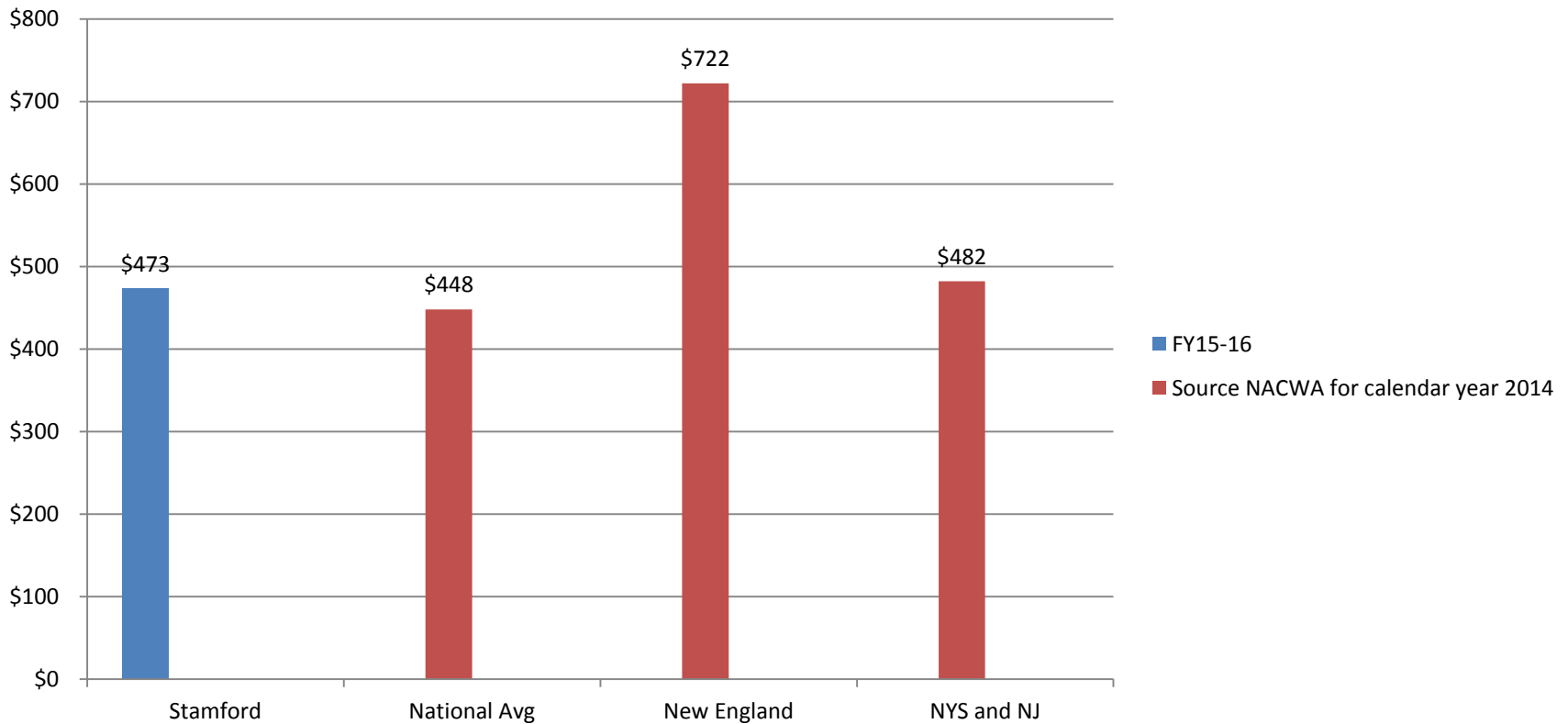
## Number of Permit Exceedances





# Performance Measure

## ANNUAL COST FOR A TYPICAL RESIDENTIAL USER





# Summary of Operating Budget

## Fiscal Year 2016/2017 - Department/Division Summary

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**Fund:** 0033 Water Pollution Control Authority

**Office:** 016 WPCA

**Dept/Div:** 0240 Water Pollution Control

**Mission Statement:**

The mission of the Water Pollution Control Authority is to provide wastewater collection and treatment to protect the environment and public health for the City of Stamford. The Water Pollution Control Authority operates and maintains the Water Pollution Control Facility, pumping stations and sanitary sewer system in the most effective and efficient manner and by ensuring compliance with its NPDES Permit and site General Permit.

Description	FY 14/15 Actual	FY 15/16			FY 16/17					FY 17/18 Estimate	FY 18/19 Estimate
		Adopted Budget	Revised Budget	Projected Exp & Enc	Department Request	Mayor's Proposed	% of Total	\$ Var Adopted	% Var Adopted		
<b>Expense</b>											
WPCA (2400)	15,553,324	17,104,374	17,104,374	17,100,771	16,000,784	16,000,784	100.00%	-1,103,590	-6.5%	16,193,293	16,394,101
Process Control (2411)	2,993,785	3,100,644	3,100,644	3,081,150	3,289,974	3,289,974	100.00%	189,330	6.1%	3,351,032	3,413,243
Laboratories (2412)	424,427	429,051	429,051	429,051	438,899	438,899	100.00%	9,848	2.3%	445,898	453,009
Sludge Proc (2413)	2,411,027	2,446,994	2,446,994	2,376,142	2,584,202	2,584,202	100.00%	137,208	5.6%	2,633,984	2,684,736
Regulatory Compliance (2415)	9,988	116,633	116,633	92,746	116,992	116,992	100.00%	359	0.3%	118,947	120,935
Building Maint (2421)	254,648	277,500	277,500	277,500	277,500	277,500	100.00%	0	0.0%	283,050	288,711
Equipment Maint (2422)	1,016,973	1,068,863	1,068,863	1,075,200	1,085,793	1,085,793	100.00%	16,930	1.6%	1,105,809	1,126,201
PumpStation Mnt (2423)	775,401	763,382	763,382	769,123	855,678	855,678	100.00%	92,296	12.1%	871,068	886,738
Sewer Maint (2424)	376,806	439,155	439,155	447,779	456,043	456,043	100.00%	16,888	3.8%	463,598	471,282
Hurricane Barrier Maint (2425)	177,400	260,000	260,000	260,000	260,000	260,000	100.00%	0	0.0%	265,200	270,504
Billing Services (2430)	460,668	472,939	472,939	472,939	472,300	472,300	100.00%	-639	-0.1%	481,746	491,381
<b>Total Expense</b>	<b>24,454,447</b>	<b>26,479,535</b>	<b>26,479,535</b>	<b>26,382,401</b>	<b>25,838,165</b>	<b>25,838,165</b>	<b>100.00%</b>	<b>-641,370</b>	<b>-2.4%</b>	<b>26,213,625</b>	<b>26,600,841</b>
<b>Revenue</b>											
WPCA (2400)	27,852,423	26,479,535	26,479,535	26,479,535	25,838,165	25,838,165	100.00%	-641,370	-2.4%	26,213,625	26,600,841
<b>Total Revenue</b>	<b>27,852,423</b>	<b>26,479,535</b>	<b>26,479,535</b>	<b>26,479,535</b>	<b>25,838,165</b>	<b>25,838,165</b>	<b>100.00%</b>	<b>-641,370</b>	<b>-2.4%</b>	<b>26,213,625</b>	<b>26,600,841</b>
<b>Net Operating Cost</b>	<b>-3,397,977</b>	<b>0</b>	<b>0</b>	<b>-97,134</b>	<b>0</b>	<b>0</b>	<b>100.00%</b>	<b>0</b>	<b>#Num!</b>	<b>0</b>	<b>0</b>



# FISCAL YEAR 2016-2017 SUMMARY BY CATEGORY

Category	FY 14/15 Actual	FY 15/16			FY 16/17					FY 17/18 Estimate	FY 18/19 Estimate
		Adopted Budget	Revised Budget	Projected Exp & Enc	Department Request	Mayor's Proposed	% of Total	\$ Var Projected	% Var Projected		
<b>Expenditures</b>											
Full Time Salary	2,952,518	3,245,057	3,245,057	3,160,154	3,468,294	3,468,294	13.42%	308,140	9.8%	3,520,318	3,573,123
Other Salary	149,575	160,676	160,676	160,676	177,673	177,673	0.69%	16,997	10.6%	180,338	183,042
Overtime	300,047	269,000	269,000	269,000	266,000	266,000	1.03%	-3,000	-1.1%	269,991	274,040
Employee Benefits	1,030,250	1,100,970	1,100,970	1,088,739	1,159,496	1,159,496	4.49%	70,757	6.5%	1,242,419	1,333,101
Retirement Benefits	2,911,723	883,805	883,805	883,805	688,436	688,436	2.66%	-195,369	-22.1%	722,858	759,001
Payments to Insurance Fund	424,674	409,377	409,377	409,377	363,376	363,376	1.41%	-46,001	-11.2%	374,277	385,506
Purchased Other Services	956	22,000	22,000	22,000	22,000	22,000	0.09%	0	0.0%	22,440	22,889
Purchased Professional Services	524,133	130,000	130,000	130,000	200,000	200,000	0.77%	70,000	53.8%	204,000	208,080
Purchased Property Services	3,347,892	3,444,535	3,444,535	3,444,535	3,675,337	3,675,337	14.22%	230,802	6.7%	3,748,844	3,823,820
Professional Development	14,247	20,000	20,000	20,000	20,000	20,000	0.08%	0	0.0%	20,400	20,808
Utilities & Commodities	2,633,621	2,689,500	2,689,500	2,689,500	2,930,500	2,930,500	11.34%	241,000	9.0%	2,989,110	3,048,893
Supplies	838,648	986,000	986,000	986,000	957,500	957,500	3.71%	-28,500	-2.9%	976,650	996,183
Central Service Cost Allocation	348,604	324,414	324,414	324,414	398,132	398,132	1.54%	73,718	22.7%	406,095	414,217
Other	-16,130	428,800	428,800	428,800	519,976	519,976	2.01%	91,176	21.3%	524,200	525,808
Transfer to Other Funds	0	1,150,000	1,150,000	1,150,000	0	0	0.00%	-1,150,000	-100.0%	0	0
Debt Service	8,993,686	9,715,401	9,715,401	9,715,401	9,991,445	9,991,445	38.67%	276,044	2.8%	9,991,685	9,991,930
Capital	0	1,500,000	1,500,000	1,500,000	1,000,000	1,000,000	3.87%	-500,000	-33.3%	1,020,000	1,040,400
<b>Total Expenditures</b>	<b>24,454,447</b>	<b>26,479,535</b>	<b>26,479,535</b>	<b>26,382,401</b>	<b>25,838,165</b>	<b>25,838,165</b>	<b>100.00%</b>	<b>-544,236</b>	<b>-2.1%</b>	<b>26,213,625</b>	<b>26,600,841</b>
<b>Revenue</b>											
Water Pollution Control	27,852,423	26,479,535	26,479,535	26,479,535	25,838,165	25,838,165	100.00%	-641,370	-2.4%	26,213,625	26,600,841
<b>Net Operating Cost</b>	<b>(3,397,977)</b>	<b>0</b>	<b>0</b>	<b>(97,134)</b>	<b>0</b>	<b>0</b>		<b>97,134</b>	<b>-100.0%</b>	<b>0</b>	<b>0</b>





# FISCAL YEAR 2016-2017 SUMMARY OF REVENUE BUDGET

Reference #	Account Title	FY 10/11 Actual	FY 11/12 Actual	FY 12/13 Actual	FY 13/14 Actual	FY 14/15 Actual	FY 15/16 Projected	FY 16/17		3/8/2016 - 11:29:48 AM	
								Department Request	Mayor's Proposed	FY 17/18 Estimate	FY 18/19 Estimate
<b>31 - Assessments</b>											
3330240311000	Special Assessments - Principal	2,453,330	18,411	-55,571	901,173	-12,514	254,542	215,000	215,000	215,000	215,000
33302403121000	Special Assessments - Interest	-20,772	0	50,557	95,513	80,219	88,386	85,000	85,000	85,000	85,000
33302403121020	Special Assessment Delin Interest &	55,087	153,098	63,892	112,765	106,574	100,000	100,000	100,000	100,000	100,000
<b>Total Assessments</b>		<b>2,487,645</b>	<b>171,509</b>	<b>58,878</b>	<b>1,109,452</b>	<b>174,279</b>	<b>442,928</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>	<b>400,000</b>
<b>32 - Revenues From The Use of Money</b>											
33301033211000	Interest Income	112,844	97,752	94,901	34,167	17,789	35,000	60,000	60,000	60,000	60,000
<b>Total Revenues From The Use of Money</b>		<b>112,844</b>	<b>97,752</b>	<b>94,901</b>	<b>34,167</b>	<b>17,789</b>	<b>35,000</b>	<b>60,000</b>	<b>60,000</b>	<b>60,000</b>	<b>60,000</b>
<b>33 - Intergovernmental Revenue</b>											
33351103321110	Nitrogen Trading Exchange Credit	938,196	840,778	848,494	1,038,159	1,223,283	1,038,159	500,000	500,000	500,000	500,000
<b>Total Intergovernmental Revenue</b>		<b>938,196</b>	<b>840,778</b>	<b>848,494</b>	<b>1,038,159</b>	<b>1,223,283</b>	<b>1,038,159</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>
<b>34 - Departmental Revenue</b>											
33302403131000	Connection Charges - Principal	0	0	0	500,211	2,707,198	860,000	1,064,000	1,064,000	1,064,000	1,064,000
33302403131001	Connection Charges - Interest	0	0	0	177,509	211,259	175,000	175,000	175,000	175,000	175,000
33302403411010	Treatment of Sewage - Darien	1,335,401	1,317,500	1,354,377	1,433,211	1,281,657	1,428,110	1,450,081	1,450,081	2,199,509	2,199,509
33302403411016	Incinerator Use Fees-PWD	9,513	13,838	0	0	0	0	0	0	0	0
33302403411025	Septic Tank Fees	184,546	265,163	289,581	228,407	225,297	261,050	360,000	360,000	360,000	360,000
33302403411071	Regional Lab Fees	68,092	58,291	53,811	39,442	32,384	40,000	45,000	45,000	55,000	55,000
33302403411072	Darien - Capital Reimbursement	694,854	458,716	887,131	728,481	818,343	835,062	833,829	833,829	833,829	833,829
33302403411074	Sewer Use Fees	15,312,415	16,809,567	17,278,581	18,521,507	19,464,827	19,494,558	19,326,095	19,326,095	19,567,127	19,954,343
33302403411331	Sewer Use-Lien Fees	14,730	180,420	208,607	187,410	168,990	190,000	160,000	160,000	0	0
33302403411332	Sewer use Fees - Interest	332,102	642,074	586,811	511,393	497,796	550,000	475,000	475,000	0	0
33302403411333	Sewer Use Fees - Miscellaneous Ch	4,624	3,000	800	700	1,400	1,000	1,000	1,000	1,000	1,000
33302403411335	Aquarion User Charges	262,569	339,445	315,742	287,150	321,979	314,112	320,906	320,906	320,906	320,906
33302403411336	Permit Fees	8,950	0	1,900	7,460	105,593	15,000	5,000	5,000	15,000	15,000
33302403411338	Ground Water Fees	0	0	0	0	0	200,000	50,000	50,000	75,000	75,000
33302403811001	Transfer In - General Fund	0	0	0	288,238	350,520	395,741	408,989	408,989	408,989	408,989
<b>Total Departmental Revenue</b>		<b>18,227,796</b>	<b>20,088,013</b>	<b>20,977,340</b>	<b>22,911,118</b>	<b>26,187,244</b>	<b>24,759,633</b>	<b>24,674,900</b>	<b>24,674,900</b>	<b>25,075,360</b>	<b>25,462,576</b>



# FISCAL YEAR 2016-2017 SUMMARY OF REVENUE BUDGET

							FY 16/17		3/8/2016 - 11:29:48 AM		
Reference #	Account Title	FY 10/11 Actual	FY 11/12 Actual	FY 12/13 Actual	FY 13/14 Actual	FY 14/15 Actual	FY 15/16 Projected	Department Request	Mayor's Proposed	FY 17/18 Estimate	FY 18/19 Estimate
<b>36 - Other Revenue</b>											
33302403691014	Miscellaneous Revenue	409,210	13,521	178,546	91,315	95,589	75,000	55,000	55,000	55,000	55,000
33302403691039	Load Shedding	33,818	39,748	35,883	0	0	0	25,000	25,000	0	0
33370103621009	Rebates-B.A.B.'s	0	149,491	145,813	186,084	154,239	128,815	123,265	123,265	123,265	123,265
<b>Total Other Revenue</b>		<b>443,028</b>	<b>202,760</b>	<b>360,242</b>	<b>277,399</b>	<b>249,828</b>	<b>203,815</b>	<b>203,265</b>	<b>203,265</b>	<b>178,265</b>	<b>178,265</b>
<b>Grand Total</b>		<b>22,209,509</b>	<b>21,400,811</b>	<b>22,339,855</b>	<b>25,370,295</b>	<b>27,852,423</b>	<b>26,479,535</b>	<b>25,838,165</b>	<b>25,838,165</b>	<b>26,213,625</b>	<b>26,600,841</b>