



COUNCIL BUDGET STAFF REPORT

CITY COUNCIL *of* SALT LAKE CITY

TO: City Council Members

FROM: Lehua Weaver
Budget & Policy Analyst

DATE: April 28, 2015

Item Schedule:

Briefing: April 28, 2015
Set Date: April 28, 2015
Public Hearing: May 19 and June 2, 2015
Potential Action: June 9 or 16, 2015

**RE: FISCAL YEAR 2015-16 BUDGET
DEPARTMENT OF PUBLIC UTILITIES
Water, Sewer, Storm Water, and Street Lighting Funds**

Council Sponsor: ***not required***

[View the Administration's proposal](#)

ISSUE AT-A-GLANCE

The Department of Public Utilities has submitted their 2015-16 budget proposal for the Water, Sewer, Storm Water, and Street Lighting Enterprise Funds, totaling \$123 million for operating and capital expenses.

These are four of the City's Enterprise Funds, which operate like separate 'businesses' from the General Fund. Each fund generates revenue through user fees and has separate staff, materials and supply budgets, and capital improvement programs. The management and administration of the four funds is all under the Department of Public Utilities.

A highlight of budget recommendations includes:

- Several new staff positions
 - Reclassification of the Water Resource Manager position to a new second Deputy Department Director position for anticipated succession planning
 - 2 full time positions in the Sewer Fund (line cleaning and discharge permit administration)
 - 5 contract positions related to Google fiber installations
 - 2 seasonal watershed enforcement & maintenance positions
- 2% cost of living salary adjustments across all funds (Since the Public Utilities budget is prepared in advance of the General Fund budgets, they generally include a salary **placeholder pending the Council's** final review and approval of the budget.)



- Rate increases in the Water Fund of 4% (impact to an average residential customer would be \$17.70 per year) and Sewer Fund of 8% (impact to an average residential customer would be \$12.48 per year)
 - These increases are consistent with what the Administration has presented in previous forecasting.
 - The Council will consider the rate increases in budget ordinances and an update to the Consolidated Fee Schedule.
- \$34.5 reduction in the capital project budget - the number is significantly lower, mostly because of a change in how the projects are accounted. Previously, the full cost of a project was budgeted in its first year, even if it was planned to extend over several years. Projects will now be budgeted in phases according to construction schedules.

Public Utilities prepares a very detailed budget document, which is reviewed by the Public Utilities Advisory Committee. You will find additional information and explanations included in the attached transmittal packet.

Goal of the briefing: Review the Department's budget and request additional information or suggest changes depending on the Council's interests. A public hearing for all annual budget items is scheduled for May 19th and June 2nd, which will include these Public Utility funds as well.

POLICY QUESTIONS

1. Between \$38 million budgeted for capital improvement projects and nearly \$7 million budgeted for debt service payments, approximately 37% of the Department's budget is used toward capital projects and infrastructure needs. Over the year, Council Members periodically voice interest in other projects that may support the City's sustainability goals and/or provide a new improvement to enhance the City's natural surroundings. The Council may wish to discuss how to utilize the utility funds to advance sustainability projects, and how that would be balanced with the ageing infrastructure and budget needed to maintain functioning systems.
 - What would the impact to user rates be to do progressive sustainability projects (secondary water projects, more aggressive riparian corridor projects, etc.) in addition to needed capital improvements?
 - What programs could the Department provide for customers to increase their water conservation efforts? Perhaps programs like selling water barrels to collect rain water, larger grant or planning assistance with individual riparian projects, etc.?
 - **The Department already manages or participates in several public education efforts ("Slow the Flow" "No Dumping" in the storm drains, and the education center at Silver Lake). In addition to these, what other educational efforts could the Department launch to increase the public's awareness of environmental stewardship opportunities?**
2. Water Rates –
 - Last year, the Council discussed whether the rate increase should be applied evenly to the tiered water rate structure or focused on tier 4 (higher water users) or on the base fee (revenue stability). Does the Council have a preference for how the increase is applied?
 - If it is applied to the base rate, it generates revenue stability for the Department (no fluctuation based on weather or conservation), but also will most affect small property owners and multi-unit residents.

- If it is applied to tier 4, the revenue is less secure (more fluctuation based on weather or conservation efforts), and will most affect larger property owners and garden properties.
 - Department representatives can review other scenarios if the Council would like.
 - The Department and the Public Utilities Advisory Committee recommended that the increase be applied more heavily on tier 1, and then at about 3% on tiers 2 through 4. The actual percentages are applied to generate an overall 4% increase in rate revenue and will be applied as follows: 7.4% increase on tier 1, 3.1% increase on tier 2, 3.6% increase on tier 3, and a 3.9% increase on tier 4. This recommended application of the increase will equitably impact commercial and residential customers, increasing commercial accounts 6.7% and increasing residential accounts between 3.1 and 3.3%.
- Attachment C includes two pages from **the Administration's transmittal, which include two charts that provide the City's water rates compared to other local cities and national cities.** Salt Lake City is typically one of the lowest nationally and in the middle of the pack locally. Given a balance of all related pieces - infrastructure needs, potential interest in other projects, geography & climate, customer impact – would the Council like to explore options for increasing water rates by a greater amount in future years?
3. The Council may wish for an update on the use of revenue from the Riparian surcharge charged to Storm Water customers (fee in addition to user rates), and how the funds have been spent toward riparian restoration projects and education.
 - **\$231,500 in projects are planned at Parley's Park and Wasatch Hollow Park**
 - Some funds are recommended for design of future projects
 - \$150,000 will continue for the education program being managed by the Tracy Aviary
 4. In 2013-14, the Council adopted a Legislative Intent regarding storm water infrastructure, and identifying areas of the City that required installation or improvements to address drainage problems. In response to the Intent Statement, the Department has reviewed underground drainage infrastructure and tasked employees with a detailed inventory of small local drainage conditions throughout the City to address all related elements – including deteriorated concrete, missing gutter, grade issues, and tree damage.

The proposed budget includes two storm drain projects: one on 2100 East which will improve local drainage and one on 5500 West that will support Public Services street construction. The Council may **request additional information for other findings of the Department's study**, including the opportunity and schedule for coordinating with City engineering on curb & gutter projects in the areas needing improvements.

The map in Attachment D shows the area of the City that has the inventory completed. Cost estimates for the required infrastructure repair and replacement are being developed.

5. At a recent Work Session, Council Member Penfold asked about whether Storm Water funds should contribute to curb and gutter projects, which are typically paid for out of the general fund. Does the Council want to explore this option further with the Administration?
6. The Department is preparing for the new State requirements regarding the Sewer treatment plant, large rate increases are planned for fiscal years 2017 through 2020. Would there be a benefit to raising the rates more than 8% this year, and could future increases be minimized?
 - The proposed budget uses \$7.4 million from cash reserves for large sewer collection line rehabilitation projects.
 - Sewer Fund balance is projected to drop to \$885,126 by the end of fiscal year 2016.

ADDITIONAL & BACKGROUND INFORMATION

General:

- The contract positions and expense related to Google Fiber will be split \$300,000 to the Water Fund, \$200,000 to the Sewer Fund, and \$100,000 to the Storm Water Fund.
- A list of capital improvement projects are listed in Attachment B.

Water Fund:

- Water Rate increase is proposed at 4%, which has been the trend in recent years.
- Water purchase – the Department makes wholesale water purchases from the Metropolitan Water District to meet the City's water demands. **As anticipated, the cost of this water will be increasing due to Metro's rate increase of \$28 per acre foot. This results in an increase of \$1.5 million.**
- \$100,000 is budgeted to study secondary water
- A new asset management program is being used to anticipate and schedule repairs. The Capital budget has been scaled back, partially due to this new approach to planning repairs.

Sewer Fund:

- The Utah Department of Water Quality has issued Nutrient Rule requirements that will drive large **capital projects at the City's Waste Water Treatment Plant.** The changes relate to phosphorous limits for water coming out of the Plant, and future regulations will relate to nitrogen and ammonia content.
 - It is anticipated that the necessary capital improvements could cost up to \$250 million.
 - Future rate increases will be 30% beginning next fiscal year (2016-17) and could last for four years. By the end of the multi-year increases, rates will have nearly tripled. Whereas the average residential household in 2015-16 (with current rate increase) pays about \$ 170.88 per year, by 2020, they will be paying approximately \$516.21 per year or \$43 per month.
 - The Department will likely issue several bonds beginning in FY 2016-17 to pay for the projects.
 - Projects will follow the adoption of upcoming requirements and timelines being established by the State.
- In the past, the Department has contracted for cleaning of collection lines, but recommends bringing that function in-house, with the hiring of one position and purchase of equipment.
- One of the new positions proposed in the budget is for monitoring the discharge permits for local **pollution limits. In another briefing on the Council's April 28th** agenda, questions are listed about the fees charged for the permits, whether a disproportionate fee should be explored, and the need to recover **the City's costs related to the program.**

Storm Water Fund:

- The final segment of the Northwest Oil Drain will undergo its environmental remediation. The budget for the project is split between the Sewer Fund and Storm Water Fund, and two-thirds of the cost is reimbursed by other involved parties.

Street Lighting Fund:

- Capital improvements in the Lighting Fund remain flat at \$950,000. Projects are focused on energy efficiency upgrades.
- No rate increase is proposed – upon creation of the Fund, the Council indicated that the rates would be evaluated in 5-years.
- Last summer the Council began a conversation about **the City's special lighting districts (Special Assessment Areas or SAAs)** and private lighting areas. This past March, when the annual assessment for

one of the SAAs (LO3) was transmitted to the Council, a larger discussion was started about the status of the City's SAAs. Council staff and the Administration have been working on the follow-up to that Council briefing. The item is scheduled for May 5 to discuss the pending LO3 annual assessment, and more information is forthcoming on all City SAAs.

ATTACHMENT A

SUMMARY OF BUDGET CHANGES – Department Total, then each Fund listed separately

Public Utilities Department 2015-16				
Water, Sewer, Storm Water, Street Lighting Budgets				
	Amended	Proposed		
	2014-15	2015-16	Difference	% Change
Revenue & other sources				
Services Revenue	\$ 94,136,752	\$ 98,285,637	\$ 4,148,885	4.4%
Interest Income	580,000	580,000	\$ -	0.0%
Impact Fees	1,050,000	1,050,000	\$ -	0.0%
Use of cash reserves	51,657,965	15,598,109	\$ (36,059,856)	-69.8%
Other Various Revenue Sources	8,038,250	8,078,315	\$ 40,065	0.5%
Total revenue & other sources	\$ 135,052,055	\$ 123,592,061	\$ (11,459,994)	-8.5%
Expenses				
Salaries, wages & benefits	\$ 29,572,342	\$ 30,580,064	\$ 1,007,722	3.4%
Materials & supplies	\$ 4,964,945	\$ 5,190,020	\$ 225,075	4.5%
Charges for services	\$ 41,270,059	\$ 42,976,277	\$ 1,706,218	4.1%
Total operating expenses	\$ 75,807,346	\$ 78,746,361	\$ 2,939,015	3.9%
Capital improvement	\$ 68,073,270	\$ 34,511,500	\$ (33,561,770)	-49.3%
Vehicles & equipment	\$ 4,635,351	\$ 3,421,200	\$ (1,214,151)	-26.2%
Debt Services	\$ 6,949,000	\$ 6,913,000	\$ (36,000)	-0.5%
Total Operating Expenses & Capital Outlay	\$ 155,464,967	\$ 123,592,061	\$ (31,872,906)	-20.5%

WATER FUND				
PROPOSED BUDGET				
	Amended 2014-15	Proposed 2015-16	Difference	Percent Change
Revenue & other sources				
Charges for services	\$ 62,051,392	\$ 64,533,448	2,482,056	4.0%
Interest income	200,000	200,000	-	0.0%
Impact fees	500,000	500,000	-	0.0%
Inter-fund charges	2,491,250	2,529,315	38,065	1.5%
Sale of used equipment	50,000	50,000	-	0.0%
Grants and Other related revenues	1,205,000	1,205,000	-	0.0%
Use of cash reserves	17,989,689	4,957,652	(13,032,037)	-72.4%
Total revenue & other sources	\$ 84,487,331	\$ 73,975,415	(10,511,916)	-12.4%
Expenses				
Salaries, wages & benefits	\$ 18,588,219	\$ 19,215,493	627,274	3.4%
Materials & supplies	3,586,435	3,665,710	79,275	2.2%
Charges for services	31,330,955	32,894,012	1,563,057	5.0%
Total operating expenses	\$ 53,505,609	\$ 55,775,215	2,269,606	4.2%
Capital improvement	25,726,372	13,523,800	(12,202,572)	-47.4%
Vehicles & equipment	2,461,350	1,918,400	(542,950)	-22.1%
Debt Services	2,794,000	2,758,000	(36,000)	-1.3%
Total Operating Expenses & Capital Outlay	\$ 84,487,331	\$ 73,975,415	(10,511,916)	-12.4%

SEWER FUND				
PROPOSED BUDGET				
	Amended 2014-15	Proposed 2015-16	Difference	Percent Change
Revenue & other sources				
Sewer service fees	\$20,835,360	\$22,502,189	\$1,666,829	8.0%
Interest income	250,000	250,000	\$0	0.0%
Impact fees	350,000	350,000	\$0	0.0%
Permits	120,000	120,000	\$0	0.0%
Contributions by Developers	3,500,000	3,500,000	\$0	0.0%
Sale of Property	20,000	20,000	\$0	0.0%
Other	135,000	135,000	\$0	0.0%
Use of cash reserves	27,533,045	7,462,962	(\$20,070,083)	-72.9%
Total revenue & other sources	\$ 52,743,405	\$ 34,340,151	(\$18,403,254)	-34.9%
Expenses				
Salaries, wages & benefits	\$ 8,507,009	\$ 8,841,535	\$334,526	3.9%
Materials & supplies	\$1,243,660	\$1,376,810	\$133,150	10.7%
Charges for services	5,260,845	5,008,306	(\$252,539)	-4.8%
Total Operating Expenses	\$ 15,011,514	\$ 15,226,651	\$215,137	1.4%
Capital improvement	32,985,890	14,510,200	(\$18,475,690)	-56.0%
Vehicles & equipment	1,611,001	1,468,300	(\$142,701)	-8.9%
Debt Services	3,135,000	3,135,000	\$0	0.0%
Total Operating Expenses & Capital Outlay	\$ 52,743,405	\$ 34,340,151	(\$18,403,254)	-34.9%

STORM WATER FUND				
PROPOSED BUDGET				
	Amended	Proposed	Difference	Percent Change
	2014-15	2015-16		
Revenue & other sources				
Stormwater service fee	\$8,050,000	\$8,050,000	\$0	0.00%
Interest	100,000	100,000	\$0	0.00%
Impact fees	200,000	200,000	\$0	0.00%
Systems constructed by developers	516,000	516,000	\$0	0.00%
Other revenue	1,000	1,000	\$0	0.00%
Bond Proceeds	0	0	\$0	#DIV/0!
Use of reserves	6,161,278	3,203,398	(\$2,957,880)	-48.01%
Total revenue & other sources	\$15,028,278	\$12,070,398	(\$2,957,880)	-19.68%
Expenses				
Salaries, wages & benefits	\$2,244,986	\$2,290,764	\$45,778	2.04%
Materials & supplies	134,850	147,500	\$12,650	9.38%
Charges for services	2,654,434	3,050,134	\$395,700	14.91%
Total operating expenses	\$ 5,034,270	\$ 5,488,398	\$454,128	9.02%
Capital improvement	8,411,008	5,527,500	(\$2,883,508)	-34.28%
Vehicles & equipment	563,000	34,500	(\$528,500)	-93.87%
Debt Service	1,020,000	1,020,000	\$0	0.00%
Total Expenses & Capital Outlay	\$ 15,028,278	\$ 12,070,398	(\$2,957,880)	-19.68%

STREET LIGHTING FUND				
PROPOSED BUDGET				
	Amended	Proposed	Difference	Percent Change
	2014-15	2015-16		
Revenue & other sources				
Service Fees	\$3,200,000	\$3,200,000	\$0	0.00%
Interest	30,000	30,000	\$0	0.00%
Other revenue	2,000	2,000	\$0	0.00%
Use of reserves from / (to)	(26,047)	(25,903)	\$144	-0.55%
Total revenue & other sources	\$3,205,953	\$3,206,097	\$144	0.00%
Expenses				
Salaries, wages & benefits	\$232,128	\$232,272	\$144	0.06%
Materials & supplies	0	0	\$0	
Charges for services	2,023,825	2,023,825	\$0	0.00%
Total operating expenses	\$ 2,255,953	\$ 2,256,097	\$144	0.01%
Capital improvement	950,000	950,000	\$0	0.00%
Vehicles & equipment	0	0	\$0	
Debt Service	0	0	\$0	
Total Expenses & Capital Outlay	\$ 3,205,953	\$ 3,206,097	\$144	0.00%

ATTACHMENT B
BUDGETS FOR CAPITAL PROJECTS

Water Fund - Proposed Capital Improvement Program	
	PROPOSED
	2015-16
Replacement of water lines and hydrants	\$ 5,827,000
Service Line Replacement & new connection	\$ 3,000,000
Reservoirs	\$ 325,000
Pumping Plant Upgrades	\$ 335,000
Land Purchases (watershed purchases)	\$ 1,500,000
Treatment Plants	\$ 800,000
Wells	\$ 500,000
Meter change out program	\$ 100,000
Culverts, flumes & bridges	\$ 177,000
Radio Reading Program	\$ 250,000
Maintenance Buildings	\$ 310,800
Landscaping & Conservation Projects	\$ 369,000
Water meter replacement	
Water stock purchases	\$ 30,000
Total Capital Improvement Program	\$ 13,523,800

Sewer Fund - Proposed Capital Improvement Program	
	PROPOSED
	2015-16
Collection Lines	\$ 7,715,200
Treatment Plant	\$ 3,645,000
Maintenance & repair shops	
Landscaping	
Lift Stations	\$ 150,000
Total Capital Improvement Program	\$ 11,510,200

Storm Water Fund - Proposed Capital Improvement	
	PROPOSED
	2015-16
Collection Lines	\$ 3,261,000
Riparian Corridor Improvements	\$ 231,500
Lift Stations	\$ 425,000
Landscaping	\$ 1,610,000
Total Capital Improvement Program	\$ 5,527,500

Public Utilities Department
Local Area Water Rate comparison - November 2014
(Highest to Lowest Ranking)

RANKING	CITY OR DISTRICT NAME	MONTHLY MINIMUM CHARGE	MINIMUM ALLOWANCE IN GALLONS	RATE OVER MINIMUM ALLOWANCE	PER GALLONS	MONTHLY FLOURIDE CHARGE	WINTER @ 7,480 GAL PER MONTH	SUMMER @ 23,936 GAL PER MONTH	TOTAL WINTER CHARGES*	TOTAL SUMMER CHARGES*	YEARLY TAX ON \$200,000 PROPERTY	TOTAL CHARGES
1	PARK CITY - GRADUATED RATES (1)	44.07	0	5.49 - 8.80	1,000		101.82	238.16	712.71	1190.78		1903.49
2	MAGNA - GRADUATED RATES (2)	14.88	6,000	1.42 - 1.59	1,000	0.83	17.81	42.19	142.49	168.75	430.72	741.96
3	SOUTH JORDAN CITY - GRADUATED RATES (3)	34.88	0	1.64 - 1.84	1,000		47.15	76.92	377.18	307.69		684.87
4	DRAPER CITY - GRADUATED RATES(4)	20.25	0	1.96 - 3.54	1,000		38.23	93.48	305.87	373.93		679.81
5	KEARNS IMPROVEMENT DIST-GRADUATED RATES (5)	11.10	0	2.20 - 2.77	1,000		27.56	71.70	220.45	286.81	125.12	632.38
6	SANDY CITY - OUTSIDE OF CITY	29.54	6,000	1.57 - 2.63	1,000		31.86	76.71	223.05	383.56		606.60
7	OGDEN CITY - GRADUATED RATES (6)	19.65	0	1.69 - 2.58	1,000		33.61	76.06	268.87	304.26		573.13
	SALT LAKE CITY – OUTSIDE OF CITY - PROPOSED	12.06	0	1.57-3.28	1,000		27.76	87.60	222.08	350.40		572.48
8	SANDY CITY - INSIDE OF CITY (10)	20.40	6,000	1.43 - 2.42	1,000		22.52	63.81	157.61	319.03	84.00	560.64
9	SALT LAKE CITY - OUTSIDE OF CITY	12.06	0	1.46 - 3.01	748		26.66	75.88	213.28	303.52		516.80
10	AMERICAN FORK (7)	20.50	6,000	2.00 - 3.31	1,000		23.46	75.01	187.68	300.03		487.71
	SALT LAKE CITY – INSIDE OF CITY - PROPOSED (10)	9.14	0	1.16-2.43	1,000		20.74	65.06	165.92	260.24	78.20	504.35
11	PLEASANT GROVE - GRADUATED RATES (8)	15.60	5,000	2.08 - 4.34	1,000		20.76	79.98	166.07	319.93		486.00
12	CITY OF SOUTH SALT LAKE	19.00	5,000	2.25	1,000	2.00	26.58	63.61	212.64	254.42		467.06
13	SALT LAKE CITY - INSIDE OF CITY (10)	9.14	0	1.08 - 2.23	748		19.94	56.60	159.52	226.40	78.20	464.12
14	WEST JORDAN CITY (9)	23.11	0	1.04 - 1.50	1,000		30.99	52.67	247.96	210.70		458.65
15	GRANGER - HUNTER IMPROVEMENT DISTRICT	12.00	0	1.45	1,000		22.85	46.71	182.77	186.83	69.20	438.80
16	JVWCD	2.50	0	1.49 - 1.86	1,000		13.65	47.02	109.16	188.08	79.80	377.05
17	BOUNTIFUL CITY - RESIDENTIAL HIGH ELEVATION	16.25	5,000	1.65	1,000		20.34	47.49	162.74	189.98		352.71
18	RIVERTON CITY	21.32	10,000	1.33	1,000		21.32	39.85	170.56	159.42		329.98
19	TAYLORSVILLE/BENNION IMPROVEMENT DISTRICT	5.00	0	1.62	1,000		17.12	43.78	136.94	175.11	16.40	328.45
20	MURRAY CITY	7.21	0	0.89 - 1.28	748		16.11	48.17	128.88	192.68		321.56
21	BOUNTIFUL CITY - RESIDENTIAL LOW ELEVATION	14.75	5,000	1.49	1,000		18.45	42.96	147.56	171.86		319.42
22	PROVO	10.59	0	0.60 - 1.00	1,000		15.08	34.53	120.62	138.10		258.73
23	OREM	12.66	0	0.58	1,000		17.00	26.54	135.99	106.17		242.16

* BASED ON EIGHT MONTHS WINTER AND FOUR MONTHS SUMMER EXCEPT PARK CITY & SANDY WHICH ARE SEVEN MONTHS WINTER AND FIVE MONTHS SUMMER

(1) RATES ARE \$5.49/THOUSAND FOR 0-5,000 GALLONS, \$8.80/THOUSAND FOR 5,001-30,000 GAL IN SUMMER AND \$7.72/THOUSAND IN WINTER

(2) RATES ARE \$14.88 FOR 0-6,000 GALLONS, \$1.42/THOUSAND FOR 6,001-18,000 GALLONS, & \$1.59/THOUSAND FOR 18,001-35,000 GALLONS

(3) RATES ARE \$1.64/THOUSAND FOR 0-10,000 GALLONS AND \$1.84/THOUSAND FOR 10,001-28,000 GAL

(4) RATES ARE \$1.96/THOUSAND FOR 0-5,000 GALLONS, \$3.30/THOUSAND FOR 5,001-20,000 GAL, & \$3.54/THOUSAND FOR 20,001-50,000 GAL.

(5) RATES ARE \$2.20/THOUSAND FOR 0-10,000 GALLONS & \$2.77/THOUSAND FOR 10,001-25,000 GALLONS

(6) RATES ARE \$1.69/THOUSAND FOR 0-6,000 GALLONS & \$2.58/THOUSAND FOR 6,001-42,000 GAL.

(7) RATES ARE \$20.50 FOR 0-6,000 GALLONS, \$2.00/THOUSAND FOR 6,001-8,000 GAL, \$2.50/THOUSAND FOR 8,001-10,000 GAL, \$3.00/THOUSAND FOR 10,001-12,000 GAL & \$3.31/THOUSAND OVER 12,000 GAL

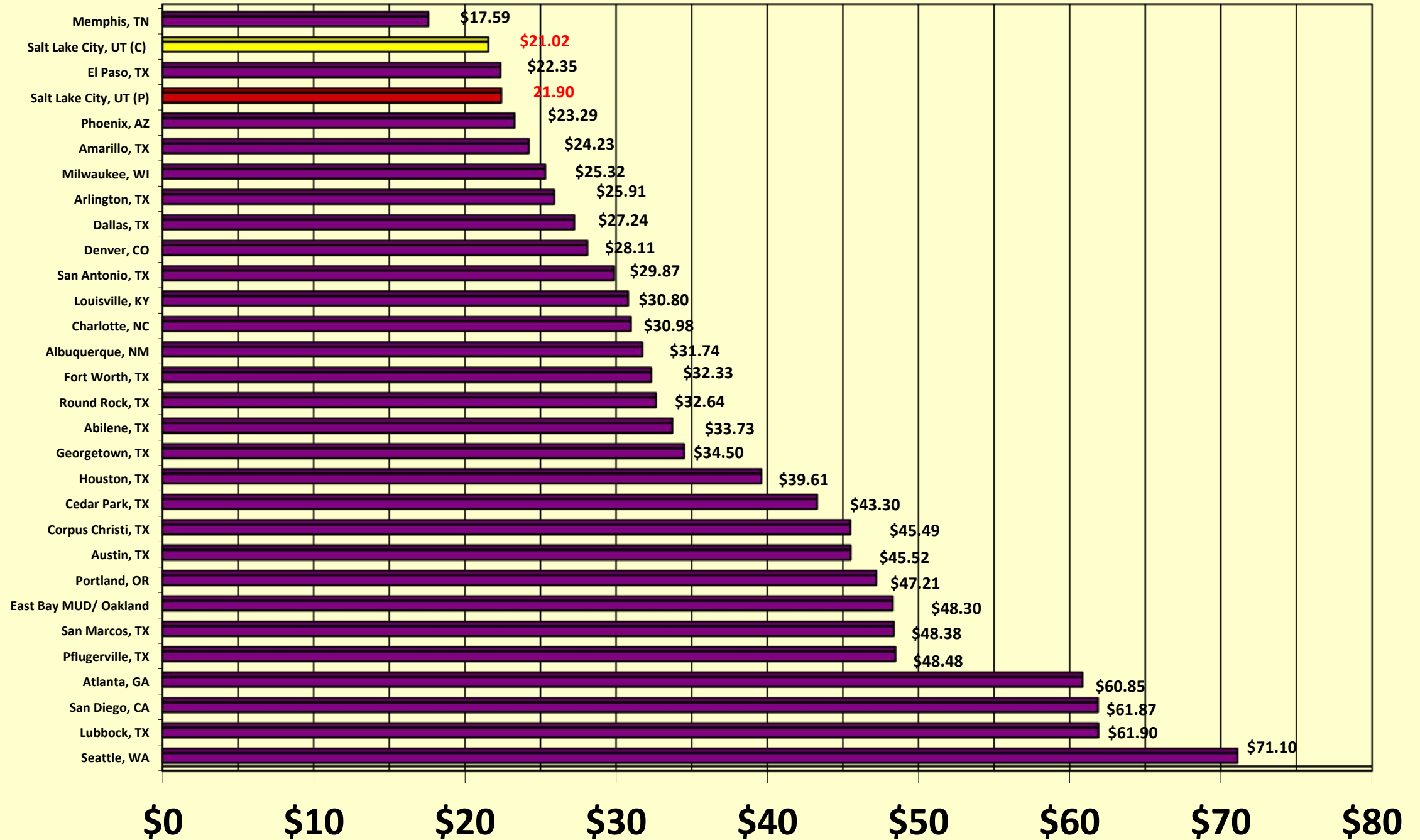
(8) RATES ARE \$15.60 FOR 0-5,000 GALLONS, \$2.08/THOUSAND FOR 5,001-10,000 GALLONS, \$3.04/THOUSAND FOR 10,001-15,000 GALLONS, & \$4.34/THOUSAND FOR 15,001-50,000 GALLONS

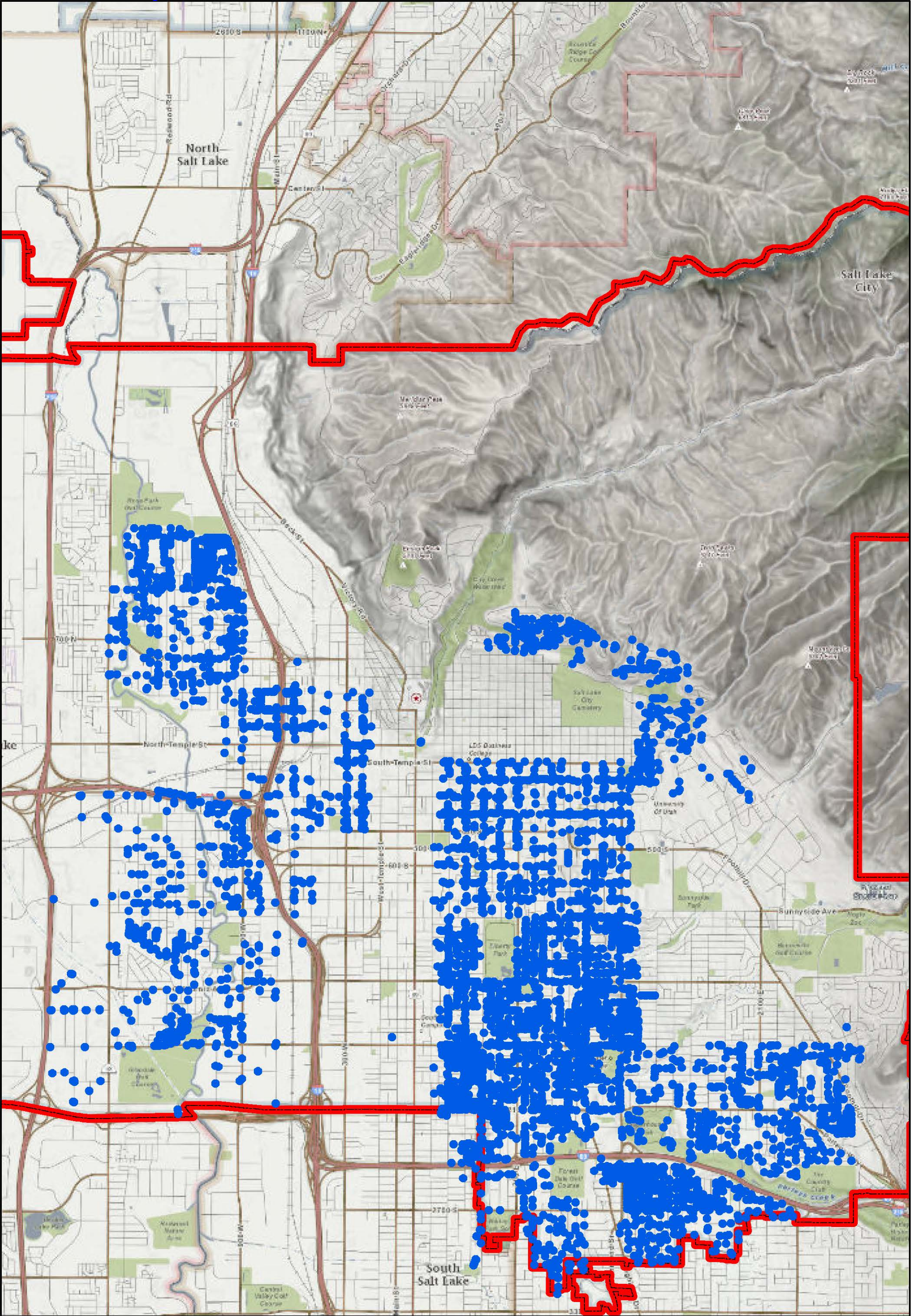
(9) RATES ARE \$1.04/THOUSAND FOR 0-7,000 GALLONS, \$1.26/THOUSAND FOR 7,001-20,000 GAL & \$1.50/THOUSAND FOR 20,001-50,000 GAL

(10) INCULDES METROPOLITAN WATER PROPERTY TAX

AVERAGE MONTHLY BILL COMPARISON-WATER RESIDENTIAL CLASS

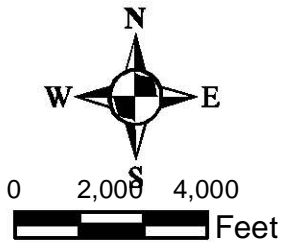
SLC Rates Current – Other City as of Feb 2014 (Average of 8,000 gallons a month)





Legend

- Curb & Gutter Shots
- City Boundary



Return to Staff Report

JEFFRY T. NIERMEYER
DIRECTOR

SALT LAKE CITY CORPORATION

DEPARTMENT OF PUBLIC UTILITIES
WATER SUPPLY AND WATERWORKS
WATER RECLAMATION AND STORMWATER

CITY COUNCIL TRANSMITTAL



SCANNED TO: Mayor
SCANNED BY: Rachel
4.20.15


David Everitt, Chief of Staff

Date Received: 4/20/2015
Date sent to Council: 4/21/2015

TO: Salt Lake City Council
Luke Garrott, Chair

DATE: April 20, 2015

FROM: Jeffry T Niermeyer, Director of Public Utilities 

SUBJECT: Request for a briefing on proposed Public Utilities Budget for 2015-2016

STAFF CONTACT: Jim Lewis, Finance Administrator (801-483-6773)

COUNCIL SPONSOR: Budget - Exempt

DOCUMENT TYPE: Budget Request

RECOMMENDATION: Approval of Public Utilities 2015-2016 budget

BUDGET IMPACT:

UTILITY BUDGET EXPENSES					
2015-2016	OPERATIONS	DEBT SERVICE	CAPITAL	TOTAL	PERCENT CHANGE
Water Utility	\$55,775,215	\$2,758,000	\$15,442,200	\$73,975,415	-7.27%
Sewer Utility	15,226,651	3,135,000	15,978,500	\$34,340,151	-15.55%
Stormwater Utility	5,488,398	1,020,000	5,562,000	\$12,070,398	4.86%
Street Lighting	2,256,097	0	950,000	\$3,206,097	0.00%
Total	\$78,746,361	\$6,913,000	\$37,932,700	\$123,592,061	-8.55%

This year's budget at a glance:

- Revenues total \$108 million
- Operational costs of \$78.7 million
- Capital equipment purchases, debt payments and constructed improvements of \$44.8 million
- Cash reserves for capital improvements will decrease \$15.0 million
- Total budget expenditures are \$123.5 million
- Rate increase of 4% for Water and 8% for Sewer or \$4.1 million increase

Current Proposed Rate Increases for Water and Sewer

The Department is asking for a continuance of a 4% Water Rate increase and an 8% Sewer Rate increase for next year. There are two main budget drivers this year that require rate increases for Water and Sewer.

- Metropolitan Water District has adopted increasing rates for several years affecting water sold to the Department. These are part of MWD debt service for several significant projects that directly benefit Salt Lake City water supply reliability and redundancy: the Point of the Mountain Treatment Plant and pipelines, and the current Terminal Reservoir seismic reconstruction project. The fiscal 2015-16 increase is 11%, which equals an additional cost to the Department of \$1.5 million, is most of the requested rate increase for Water.
- New Utah DWQ sewer regulations require treatment improvements now to achieve phosphorus limits by 2020, with nitrogen and ammonia rules anticipated to require improvements to achieve regulatory compliance by 2029. In addition ongoing upgrades to the remaining 50 year old sewer treatment plant will require rate changes. Also significant investment is needed to serve the growing sewer needs on Salt Lake City's service area west of the Jordan River.
 - a. Planning for anticipated \$252.7 million in bonding and designing plant retrofit requirements for compliance
 - i. Planning for full rehab of influent headworks screening and odor control facility for \$27 million
 - ii. Pre-design of west Salt Lake City Sewer Master Plan projects and construction of sewer capacity improvements
 - b. State Phosphorus Rule Compliance by January 2020
 - i. Provide system changes to meet compliance
 - ii. Plan for other nutrient treatment modifications anticipated
- Sewer rate 2016 increase impact
 - a. Average resident annual increase of \$12.48 or \$1.04 per month
- Water rate 2016 increase impact
 - a. Average resident annual increase of \$17.7 or \$1.48 per month

Storm Water and the new Street Lighting Funds require a consistent level of capital improvements that should be within the capability of the current funding resources. Capital planning review will be conducted over the next few years to confirm longer term project and funding needs.

BACKGROUND/DISCUSSION:

Rate increases are proposed for Water at 4% and Sewer at 8%-Water for increased raw water costs and Sewer for anticipated capital needs within the Sewer Fund. See attached budget book for background discussion.

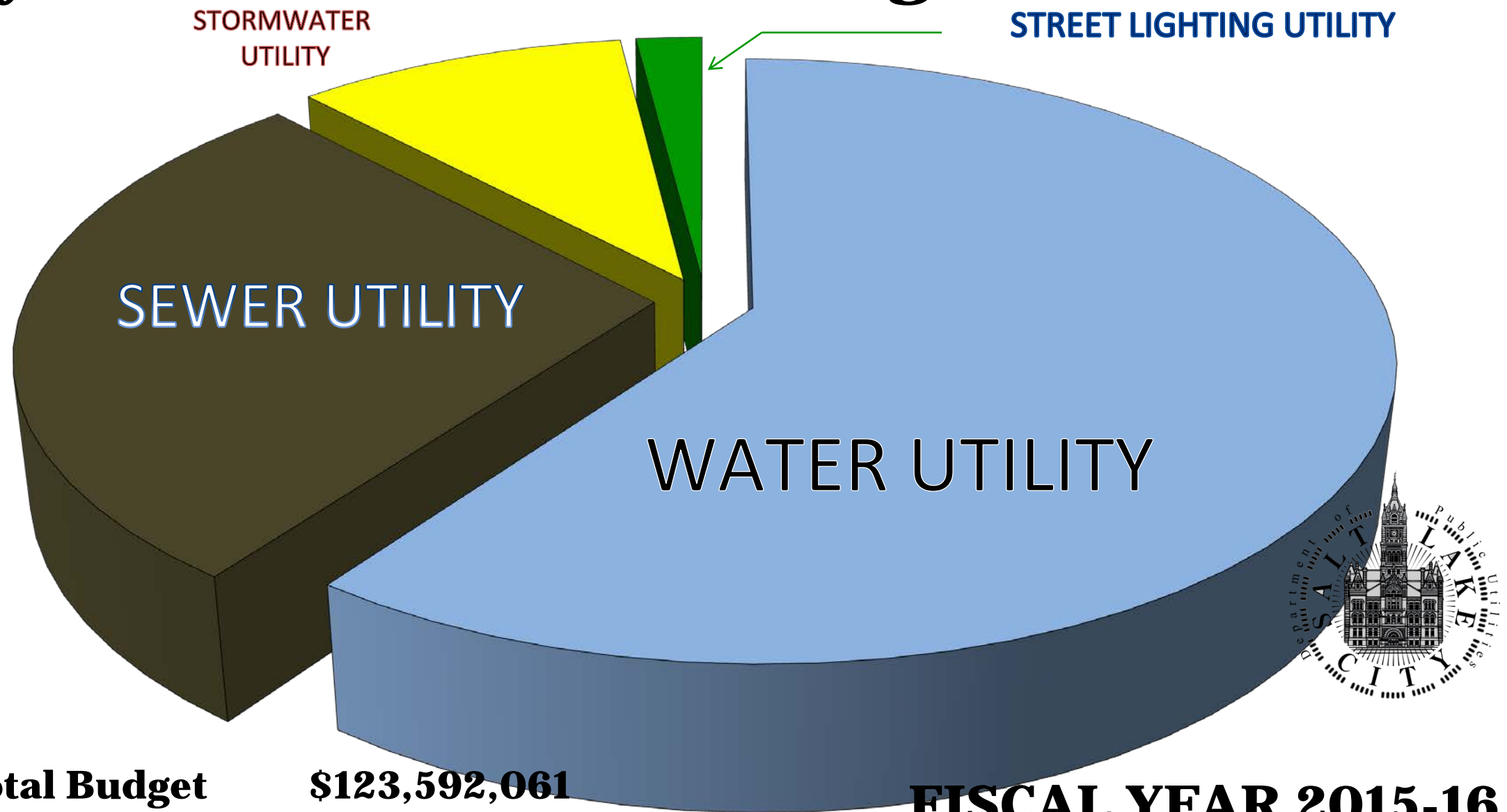
PUBLIC PROCESS:

The proposed budget was approved by the Salt Lake City Public Utilities Advisory Board on February 26, 2015.

Salt Lake City Department of

Public Utilities

Mayor Recommended Budget



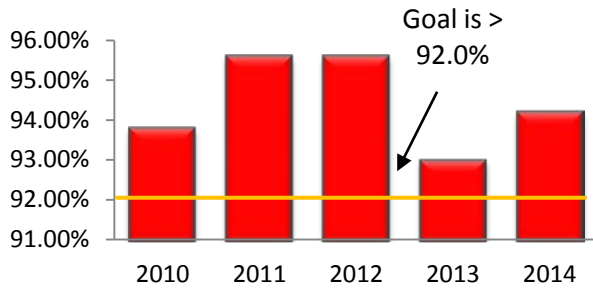
Total Budget	\$123,592,061
Prior Year	\$135,052,055
Reduction	(\$11,459,994)

FISCAL YEAR 2015-16
as of April 13, 2015

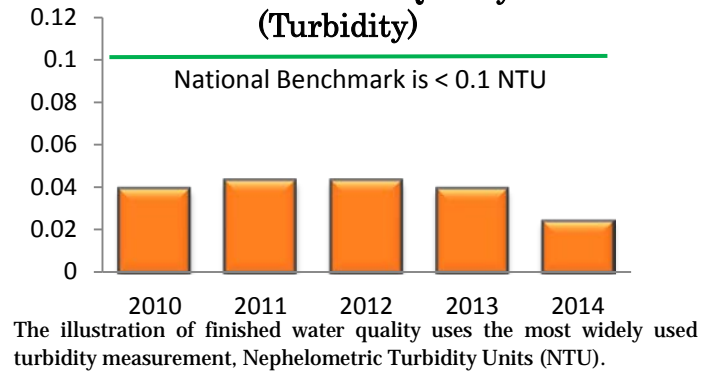
SALT LAKE CITY PUBLIC UTILITIES

PERFORMANCE HIGHLIGHTS

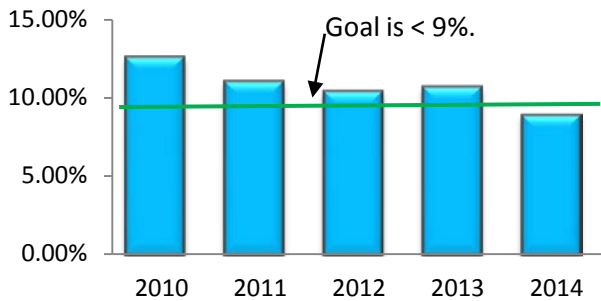
Customer Service Satisfaction Rating



Finished Water Quality (Turbidity)



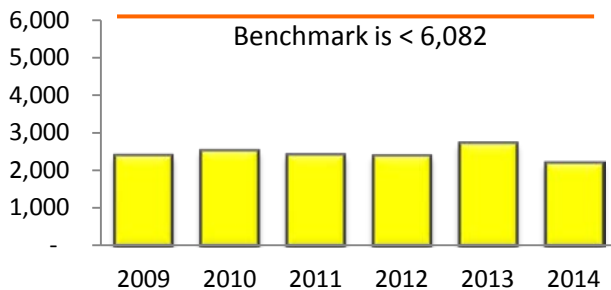
Customer Service Calls Lost



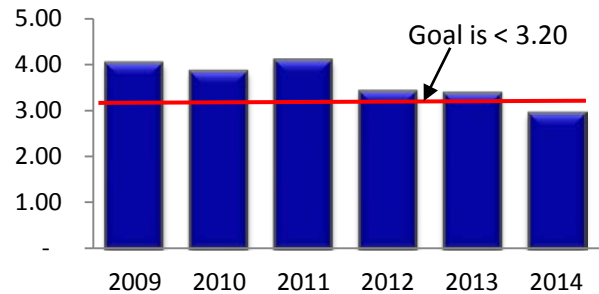
Annual Customer Service Cost per Account



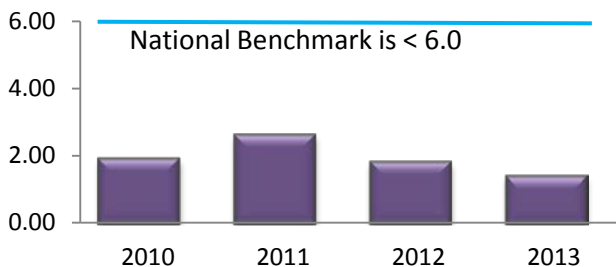
Water Energy Efficiency (KBtu/yr/MG)



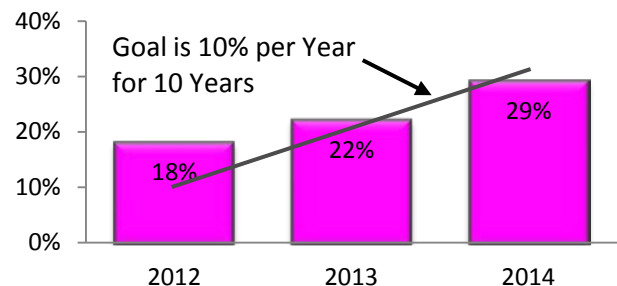
Fuel Use Efficiency (gallons per work order)



Sewer Overflows per 100 Feet of Pipe



Percentage of High Efficient Lamps



SALT LAKE CITY PUBLIC UTILITIES FISCAL YEAR BUDGET FOR 2015 – 2016

WATER

SEWER

STORMWATER


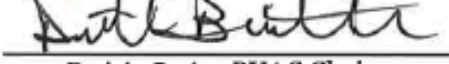
STREET LIGHTING



Public Utilities Department & PUAC

Authorized and Proposed Budget

Dated 2/26/2015


Jeffrey T. Niermeyer, Director

Dwight Butler, PUAC Chairperson

Executive Summary

Budgetary Objectives

The Department of Public Utilities has prepared a conservative budget for fiscal year 2015-16. The Water, Storm Water and Street Lighting enterprise utility funds remain nearly budgetary neutral overshadowed by a dramatically new direction for the Sewer Fund because of adopted, potentially expensive, State nutrient requirements coupled with replacing vital but deteriorated sections of a very old treatment facility. Listed are the budget highlights for the coming year:

- Water capital improvements decreased \$9 million from last year with engineering using a strong Asset Management Program implementation framework and modern pipe condition assessment technology to provide the utilities with better pipe replacement data criteria, saving money.
- Google Fiber installation support will require assignment of 5 staff employees within the Department. The Department has budgeted \$600,000 for contract services to address the additional workload needs.
- Sewer Capital expenditures decrease \$7 million from last year as we take steps responding to current and anticipated Utah DWQ (Department of Water Quality) Nutrient Rule requirements. Included is a potential conversion to a Biological Nutrient Removal (BNR) process, a change in how the plant treats sewage.
 - a. Design phase for Phosphorus Rule R-317
 - b. Public outreach and design to rebuild the pre-treatment headworks intake screening and odor control facility for \$27 million

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

- c. Rate modifications that are designed to assist compliance with State and EPA mandates including necessary upgrades to the remaining 50 year old Water Reclamation Facility
- d. Proposed 5 future bond issues maintaining a reasonable debt service coverage of at least 2.25 for each of the next 10 years beginning in 2016-17 issuing over \$252 million in new debt
- e. Purchase of equipment for internal staff to complete large diameter sewer trunk line cleaning, saving \$491,000 over past annual contract cleaning costs
- f. Phase III Orange Street trunk line rehabilitation construction under I-80 eastbound ramp and 500 South to Indiana at \$3.4 million
- g. Over 33,125 feet of collection sewer rehabilitation at \$5.3 million
- Storm Water Capital Improvements maintains \$5.5 million budget
 - a. Storm Drain improvements of \$2.3 million
 - b. Riparian stream bank improvements of \$235,000
- Street Lighting again budgets \$950,000 for Capital Improvement upgrades that include energy efficient lighting
- Rate Increases of 4% for Water (\$2.5 million), 8% Sewer (\$1.67 million) and no change in Storm Water or Street Lighting
- Energy efficiency built into O&M and capital replacement
- Operating budgets increased \$2.3 million with changes in personnel, water purchases, admin fees and external consulting services

This year's budget at a glance:

- Revenues total \$108 million
- Operational costs of \$78.7 million
- Capital equipment purchases, debt payments and constructed improvements of \$44.8 million
- Cash reserves for capital improvements will decrease \$15.0 million
- Total budget expenditures are \$123.0 million
- Rate increase of 4% for Water and 8% for Sewer or \$4.1 million increase

Department revenues are predictable for all funds except water which is based on changes in seasonal use. Water sales can be affected adversely by either too little water in storage or a cooler, wetter summer and spring. The impact of water conservation rates have and do reduce customer usage while balancing financial stability of the Water Utility. Available water is expected to be able to meet the needs of customers this year. Revenues are forecasted on a normal or average expected usage.

Current Proposed Rate Increases for Water and Sewer

The Department is asking for a continuance of a 4% Water Rate increase and an 8% Sewer Rate increase for next year. There are two main budget drivers this year that require rate increases for Water and Sewer.

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

- Metropolitan Water District has adopted increasing rates for several years affecting water sold to the Department. These are part of MWD debt service for several significant projects that directly benefit Salt Lake City water supply reliability and redundancy: the Point of the Mountain Treatment Plant and pipelines, and the current Terminal Reservoir seismic reconstruction project. The fiscal 2015-16 increase is 11%, which equals an additional cost to the Department of \$1.5 million, is most of the requested rate increase for Water.
- New Utah DWQ sewer regulations require treatment improvements now to achieve phosphorus limits by 2020, with nitrogen and ammonia rules anticipated to require improvements to achieve regulatory compliance by 2029. In addition ongoing upgrades to the remaining 50 year old sewer treatment plant will require rate changes. Also significant investment is needed to serve the growing sewer needs on Salt Lake City's service area west of the Jordan River.
 - a. Planning for anticipated \$252.7 million in bonding and designing plant retrofit requirements for compliance
 - i. Planning for full rehab of influent headworks screening and odor control facility for \$27 million
 - ii. Pre-design of west Salt Lake City Sewer Master Plan projects and construction of sewer capacity improvements
 - b. State Phosphorus Rule Compliance by January 2020
 - i. Provide system changes to meet compliance
 - ii. Plan for other nutrient treatment modifications anticipated
- Sewer rate 2016 increase impact
 - a. Average resident annual increase of \$12.48 or \$1.04 per month
- Water rate 2016 increase impact
 - a. Average resident annual increase of \$17.7 or \$1.48 per month

Storm Water and the new Street Lighting Funds require a consistent level of capital improvements that should be within the capability of the current funding resources. Capital planning review will be conducted over the next few years to confirm longer term project and funding needs.

Below is a quick snapshot of the Department's overall proposed budget. As shown, the overall budget decreased 8.55% or \$11.5 million. Even with the decrease the Department's overall cash reserves are projected to decline by \$15.6 million:

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

UTILITY BUDGET EXPENSES					
2015-2016	OPERATIONS	DEBT SERVICE	CAPITAL	TOTAL	PERCENT CHANGE
Water Utility	\$55,775,215	\$2,758,000	\$15,442,200	\$73,975,415	-7.27%
Sewer Utility	15,226,651	3,135,000	15,978,500	\$34,340,151	-15.55%
Stormwater Utility	5,488,398	1,020,000	5,562,000	\$12,070,398	4.86%
Street Lighting	2,256,097	0	950,000	\$3,206,097	0.00%
Total	\$78,746,361	\$6,913,000	\$37,932,700	\$123,592,061	-8.55%

DEPARTMENT BUDGET HIGHLIGHTS

Schedule of proposed rate increases to maintain at least a minimum level of cash reserves and prepare for expected capital needs of each of the funds. As shown below, Storm Water and Street Lighting Funds will not require rate increases since they maintain a fairly stable reserve balance for operation and capital needs. Street Lighting cash reserves are expected to decline and this concern will be reviewed in 2018-19 at the request of the City Council.

	Water	Sewer	Stormwater	Street Lights
2015-16	4%	8%	0%	0%
2016-17	4%	30%	0%	Five year Review
2017-18	4%	30%	0%	0%
2018-19	4%	30%	0%	0%
2019-20	4%	25%	0%	0%
2020-21	4%	10%	0%	0%
2021-22	4%	8%	0%	0%
2022-23	4%	8%	0%	0%

Personnel Changes include a reorganization of a top position by creating two Deputy Director positions as part of the management succession plan based on future retirements. The Department is also requesting 2 full time employees and 2 additional watershed seasonal employees.

- Prior year FTE's (full-time equivalent) employees 399.5
- New Deputy Director position as a succession retirement plan to assist in managing the complexity of the Department
- Requesting 1 sewer collection lead employee to manage large diameter line cleaning
- An FTE in Sewer Pre-treatment to address a 25% increase in permits and respective monitoring and administration of industrial sewer discharges
- Watershed needs 2 additional seasonal workers to assist in canyon enforcement and maintenance
- Total Department employees desired is 401.5
- COLA increase of 2% and no increase applied for any potential change in retirement or insurance benefits.

Metropolitan Water Purchases Rate Increase The Metropolitan Water District continues to raise rates to bulk water purchases for the Department. This rate increase will go from \$260 to \$288 per acre foot or 11%. This \$28 an acre

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

foot change is expected to cost the department an additional \$1.5 million. The chart below shows the increases from Metro and the equivalent corresponding water rate increases to maintain the same level of funding.

Metropolitan Rate Increase Proposed				
	Rate		Cost to Department	Water Rates to Offset
2015-16	11%		\$ 1,509,488	2.3%
2016-17	10%		\$ 1,523,211	2.3%
2017-18	7%		\$ 1,172,872	1.7%
2018-19	4%		\$ 717,128	0.9%
2019-20	4%		\$ 745,813	0.9%
2020-21	4%		\$ 775,646	0.9%

Major Projects- Project and project planning is a primary focus for Public Utilities. Listed below are the major projects listed for the current fiscal budget.

- Water line replacement is budgeted at \$4.8 million and a 1700 South project of \$700k. \$1.6 million is allocated to developers, mainline valves hydrants and regulator replacements.
- Reservoirs have been allocated \$325k for minor upgrades and \$500k for electrical work and pumps on several deep pump wells.
- Water service connections that include meters, new connections and meter replacements has a total budget of \$3.35 million with \$250k to begin building radio towers for a future meter reading system that will update meter information to the Department continuously.
- Water treatment plants have 9 total projects totaling \$800k for upgrading various pieces of equipment.
- The Sewer Treatment Plant has budgeted \$3.6 million with \$1.9 million for upgrading emergency generators at the pump station and \$1.3 million for pre-design on the headworks screening and odor control facility, and nutrient design for phosphorus compliance.
- Replacement of large pressure reducing valves (PRVs) that are at the end of their service life, which includes provisions to install new electric generation turbines with vault at 500 South and 1000 East.
- Sewer Line replacements are budgeted at \$7.72 million with \$3.7 million just for the 3rd phase of the Orange Street Interceptor Line. There are 40 other sewer line projects set with the Sunnyside Avenue sewer rehab for \$283k the largest dollar project of the group.
- Oil Drain Phase IV has \$3 million for Sewer and \$1.6 million for Storm Water for what appears to be the final cost for EPA contamination removal, co-partnered with the local oil companies.
- Storm Water has \$3.5 million budgeted for storm drain lines with the Red Butte culvert at Sunnyside and 2100 East and Westminster line at approximately \$750k each. General storm drainage ADA access at intersections and developer improvements make up \$1 million of this.

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

- Riparian Corridor Improvements list 5 projects in the storm water capital improvement plan at \$231k total.
- Street lighting efficiency projects remain static at the \$950k level.

Potential \$224 Million Impact to the Sewer Utility from Proposed State Nutrient Regulatory Changes

Defined as nutrient sewer treatment plant projects, the Department has identified a strategic planning approach that will mirror the required adoption rules as they are implemented by the State to meet nationally based nutrient standards established by the USEPA. The first nutrient slated for removal is phosphorus under Utah Rule 317-1-3 adopted December 2014, followed by rules expected for ammonia and nitrogen in the next 5 years. In addition to significantly changing the City's treatment processes, this rule is anticipated to increase power and chemical cost of operations by \$2 to \$4 million each year in the future. The current capacity of the sewer plant is 56 million gallons per day or MGD. Administration plans to design these new processes at that rated capacity. Bonding for \$80 million now, and perhaps another \$80 million in a few years thereafter, will double or triple present sewer rates to implement newer technology and compliance with required regulations to ensure the public of a sound and effective treatment facility for the foreseeable future

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

WATER UTILITY ENTERPRISE FUND –

SUMMARY OF MAJOR WATER BUDGET ISSUES

Below are the suggested budget summary proposals for 2015-16:

- **4% Water Rate Increase**
A 4% rate change increases budgeted revenue by \$2.5 million which assists in paying for future water purchases at increasing rates from Metropolitan Water District of \$1.50 million for this and subsequent budgets. Future rates are projected for each of the next 7 years at 4% per year.
- **Capital Projects at \$11.9 Million**
The Department's engineering section has developed stricter criteria for project selection that is identifying areas that require improvements to focus resources based on age, failure and impact to customers. Treatment plants have undergone considerable improvements over the past few years and are in reasonable working conditions. Some attention will be applied to improving the main administrative building that has a broken heating and cooling systems with a budget of \$250k. Distributions mains and hydrants have a total of \$5.8 million budgeted with the largest project a \$1 million water vault, electric turbine and regulators on 5th South and 1000 East. Numerous other projects are \$700k or less.
- **Metropolitan Water District Water Purchase Costs Increase 11% or \$28 per Acre Foot**
Water bought from the Metropolitan Water District will again increase another \$1.5 million. Metro's rate increase is the driving force for the consistent rise in water rates for the next several years.
- **Water Special Studies**
Consultant based studies have grown larger each year and a special accounting code will help isolate these costs for better management. Water has budgeted \$869k for software optimizations, operational and capital efficiency along with infrastructure study options.
- **Google Fiber Network**
The Water Fund has budget \$300,000 for inspection and location to coordinate network installation with existing water facilities and rights of way.

Water Infrastructure Background

The Salt Lake City Water Distribution System (WDS) is very large and complicated—1,119 miles of 12" or smaller distribution lines plus 180 miles of large transmission mains for a total footage of 1,299 miles of pipe in 2014 with over fifty pressure zones. The service area covers the Salt Lake City corporate boundaries as well as the east side of the Salt Lake valley all the way to the mouth of Little Cottonwood Canyon—a total of 134 square miles. Figure 1 shows the age

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

history of the water pipes. This is an aging system with corrosion and other factors that affect the competency of the pipes. There is a continual need to repair and replace bad pipe segments to maintain service and reduce emergency break repair costs and impacts to the public.

The Department has adopted an Asset Management Program framework which uses condition assessments of critical facilities to determine appropriate inspection, repair and replacement at the appropriate time, which maximizes the useful life of each asset. This has included investments over the past few years in use of new technology to assess the condition of the large water transmission mains to assure repair and replacement is completed with minimal impact to the public.

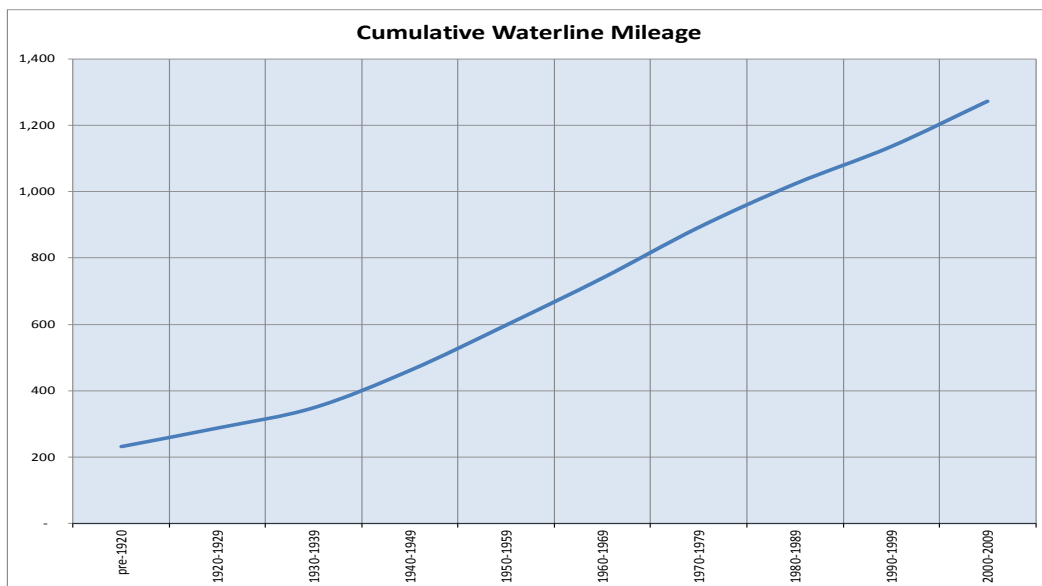


Figure 1. Pipeline Age for the Salt Lake City Water Distribution System

Analysis of Estimated Revenue

An analysis of the estimated revenue contained in the Department's recommended Budget for the Water Fund is as follows:

Revenue	Amended Budget 2014-2015	Proposed Budget 2015-2016	Difference	Percent
Charges for services	\$62,051,392	\$64,533,448	\$2,482,056	4.00%
Interest	200,000	200,000	0	0.00%
Other revenues	2,491,250	2,529,315	38,065	1.53%
Sale of used equipment	50,000	50,000	0	0.00%
Impact fees	500,000	500,000	0	0.00%
Contributions by developers	1,205,000	1,205,000	0	0.00%
From (to) reserves	17,989,689	4,957,652	(13,032,037)	-72.44%
TOTAL	\$84,487,331	\$73,975,415	(\$10,511,916)	-12.44%

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

Budgeted revenues decrease by \$10,511,916 or 12.44% with a proposed 4% rate increase and a minor increase in other revenue denoting changes in internal reimbursements for work performed for the other utility funds. Less reserve funding is required for the current budget.

Revenue from Water Sales and Services: The proposed revenue for water sales and services includes a 4% rate increase which is budgeted to generate an additional \$2,482,056 in metered sales.

Interest Income: The Department is budgeting the same as the prior year for interest income as interest rates have fluctuated little for investments.

Other Revenue: Other revenues increased \$38,065.

Impact Fees: No Change

Contributions by Developers: No Change

Reserve Funds: The Department plans to use \$5.0 million of past reserve funds to pay for continued capital improvement projects and balance the budget. Budgeted use of reserve funds is \$13,032,037 less than the 2014-15 budget or a decrease of 72.44%.

Analysis of Estimated Expenditures

The expenditure budget for the Department is proposed to decrease \$10,511,916 or 12.44% from the 2014–2015 budget. The proposed budget for fiscal year 2015 - 2016 by major category is as follows:

Major Expenditure Category (Water)	Amended Budget 2013-2014	Proposed Budget 2014-2015	Difference	Percent
Personnel services	\$18,588,219	\$19,215,493	\$627,274	3.37%
Materials and supplies	3,586,435	3,665,710	79,275	2.21%
Charges for services	31,330,955	32,894,012	1,563,057	4.99%
Debt service	2,794,000	2,758,000	(36,000)	-1.29%
Capital outlay	2,461,350	1,918,400	(542,950)	-22.06%
Capital improvement program	25,726,372	13,523,800	(12,202,572)	-47.43%
TOTAL	\$84,487,331	\$73,975,415	(10,511,916)	-12.44%

Personnel Services: Employee costs will increase \$627,274 or 3.37% for a 2% COLA, and an increase in estimated benefit costs. The budget anticipates an increase of 2 watershed seasonal employees to help with the increased use of the City's watershed.

Materials & Supplies: The proposed budget for materials and supplies increased 2.21% from last year budget in the amount of \$79,275 for the following reasons:

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

- Increase in materials for building repairs of \$29,000
- Increase in computer supplies and hardware of \$19,350
- Increase in photographic supplies for GIS aerial mapping of \$9,900
- Increase in non-motive parts of \$6,500
- Increase in small tools and supplies of \$6,325
- Increase in books and stationary supplies of \$3,700
- Increase in janitorial supplies and laundry of \$3,000
- Increase in training \$2,500
- Increase in safety equipment of \$500
- Decrease in duplication supplies of \$1,500

Charges for Services: The proposed budget for charges and services will increase \$1,563,057 as explained below:

- Increase of \$1,509,488 for water purchased from the Metropolitan Water District
- New line item of \$869,000 for Special Consulting work that decreases the technical and professional services line item.
 - Assessments on canals, wells \$150,000
 - Data and software management of \$210,000
 - Mt. Accord, Wasatch Legacy, Secondary Water \$290,000
 - Efficiency study, grants, public outreach, impact fee \$160,000
 - Administration building Pre-design for HVAC, plumbing, remodeling for \$50,000
 - Watershed restoration, weed mitigation at \$9,000
- Decrease of <\$687,950> for Professional and Technical Services but includes an additional \$300,000 for Google Fiber network installation support services.
- Increase in Data Processing costs for additional programming of \$75,000
- Increase in Travel and Conferences of \$9,590
- Increase in Chemical Analysis of \$15,950
- Increase in power costs of \$32,500
- Increase of \$30,000 City Administrative Service Fees
- Decrease in equipment and barricade rentals of <\$10,000>
- Decrease of <\$108,619> for Other Charges and Services
 - Decrease in intra-department charges of \$100,000

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

- Decrease of \$25,000 in bus passes
 - Increase in meal allowance, mileage and inventory of \$3,500
- Decrease in PILOT (payment-lieu-of-taxes) <\$112,000> as water sales dropped last year.
- Decrease in Risk Management Premiums & Claims and Damages of <\$59,902> due to the large amount of claims budgeted and paid from last year due to the 1700 South water line break.

Capital Outlay: The proposed Water budget of capital outlay fiscal year 2015 - 2016 includes a <7.30%> decrease of \$151,000 from last year for a total budget of \$1,918,400. This includes \$590,700 in vehicle replacements and \$550,000 for field equipment. Pump, telemetry and office furniture and equipment total budget is \$471,000. Treatment plant equipment upgrades of \$601,000. The proposed budget for other non-motive equipment totals \$176,700.

Capital Improvement Program: The Department's proposed CIP budget for fiscal year 2015 – 2016 is \$8.5 million less than the previous year. Capital project summary by facility types are listed below:

Proposed CIP Budget for Fiscal Year 2014-2015	
Type of Project	Budget Amount
Replacement of water lines and hydrants	\$5,827,000
Service Line Replacement & new connection	3,000,000
Land purchases	1,500,000
Treatment plants	800,000
Wells	500,000
Landscaping	369,000
Pumping Plant Upgrades	335,000
Reservoirs	325,000
Maintenance buildings	310,800
Radio reading system	250,000
Culverts, flumes & bridges	177,000
Meter change out program	100,000
Water stock purchases	30,000
Total 2015-2016 CIP Budget	\$ 13,523,800

The proposed capital budget is scaled back some, based on better criteria to replace or repair critical system needs. This approach will take another year or so to fully review the system. There are no major projects that stand out this year

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

SEWER UTILITY ENTERPRISE FUND

SUMMARY OF MAJOR SEWER BUDGET ISSUES

Below are the budget categories that impact the fiscal year 2015-16 and affect strategic future planning issues for the next decade:

- Strategic Capital Improvement Plan based on anticipated Federal and State Nutrient Rules and needed structural upgrades near \$224 million.
- Bonding over the five years beginning in the 2016-2017 fiscal year of \$252.7 million to comply with key facility replacement costs and phosphorus rule Compliance.
- Rate Increase of 8% this year followed by 30% for three years to meet to implement phosphorus removal discharge compliance and bond coverage requirements.
- The Sewer Fund has budgeted \$200,000 for inspection and location to support coordination of the Google Fiber Network installation with existing sewer lines and rights of way.

Reclamation Plant Facility Replacement and Phosphorus Nutrient Removal

The current budget year has \$3.6 million planned for improvements to the Reclamation Plant, a \$1.9 million upgrade for emergency power for the pump station and \$1.3 million for pre-design for the first phase of the nutrient project and influent pump station rebuild. The Department is anticipating \$103.7 million in reclamation plant improvements during fiscal years 2016-17 through 2019-20—or 3 times the estimate for last year's budget—with potentially \$178 million in identified reclamation plant nutrient compliance projects that will be required starting in 2020-21 for the first phase and later EPA nutrient standards through 2025 as they are adopted nation and state wide.

Rate Change of 8% for 2015-16 with 30% on the Horizon

The Sewer Utility is anticipating substantial capital needs with rates that will mirror those needs. The Sewer Utility has and continues to identify various collection lines, lift stations and other facilities, especially at the reclamation plant, that through age, need replacement. The rate increase is largely driven by the State EPA requirements that are taking effect. In order to fund the Sewer Utility's anticipated needs for capital improvements, the Department proposes an 8% increase in sewer rates in 2015-16 with larger increases to sewer rates to follow in subsequent years if Federal mandates are adopted as State regulations. The 8% rate increase will generate \$1.67 million for the Utility. The following table shows the proposed rate increases for 6 years:

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

Suggested Future Rate Increases	
2015/16	8%
2016/17	30%
2017/18	30%
2018/19	30%
2019/20	25%
2020/21	10%

\$252.7 Million in Bond Issues Anticipated

In addition to the proposed rate increases, the Department anticipates raising \$252.7 million of funds for the Sewer Utility through the issuance of five bonds. The anticipated bond issuances are as follows:

Anticipated Bonding	
2015/16	\$0
2016/17	\$33,495,000
2017/18	\$32,480,000
2018/19	\$33,495,000
2019/20	\$35,525,000
2020/21	\$117,740,000

The department forecasts that it will need a bond to fund \$184.2 million in identified projects anticipated at the reclamation plant and \$65.9 million in identified collection line projects.

Sewer Collection Line Rehabilitation

This budget includes \$7.7 million for collection line improvements in 2015-16 (on par with last year) as the Department's focus on line replacement improves with asset management criteria. A \$3.7 million Orange Street Trunk line Phase III project, is 48% of the amount budgeted for collection line improvements in 2015-16. The remaining \$4.0 million or 52% is spread over 40 collection line improvement projects the Utility has budgeted. Collection line improvements represent 53% of the 2015-16 Sewer Utility capital improvements budget.

Internal Collection Line Cleaning reduces operations cost \$491k

The Sewer Utility plans on discontinuing the outsourcing of cleaning large diameter sewer collection lines. The large diameter sewer collection lines will now be cleaned by department employees. Accordingly, the budget eliminates a <\$491,750> contract for the previously outsourced services, includes one additional sewer collection employee, and includes \$996,000 for the addition

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

of large diameter pipe cleaning equipment. The department projects this service expansion will be significantly more cost effective than outsourcing, after the initial investment year.

Remediation of Final Segment of the Northwest Oil Drain Canal

Discovered in 2003 to be contaminated, the Northwest Oil Drain Canal near the Sewer Reclamation Plant is undergoing an ongoing environmental remediation mandated by the EPA. The Department continues to do its part to remediate the Canal in accordance with an agreement between the oil companies, EPA and the Department. The Sewer Utility is budgeting \$3 million in 2015-16 for the ongoing remediation. Stormwater is budgeting to contribute \$1.6 million in 2015-16 to this project. The Department continues to collaborate with Chevron and British Petroleum receiving reimbursement of 2/3 of the project costs from the oil companies.

Sewer Infrastructure Background

The sewer collection system (653 miles in 2014) is a very challenging environment; hydrogen sulfide gases, sediment, roots and other factors affect the competency of the collection lines. Because of the environment of the collection system there is a continual need to repair and replace bad pipe segments. More than 50% of the sewer collection system is more than 85 years old (Figure 3). Sewer Utility Capital Improvement Program's goal is to rehabilitate at least 1% of the aged collection system every year (Figure 4).

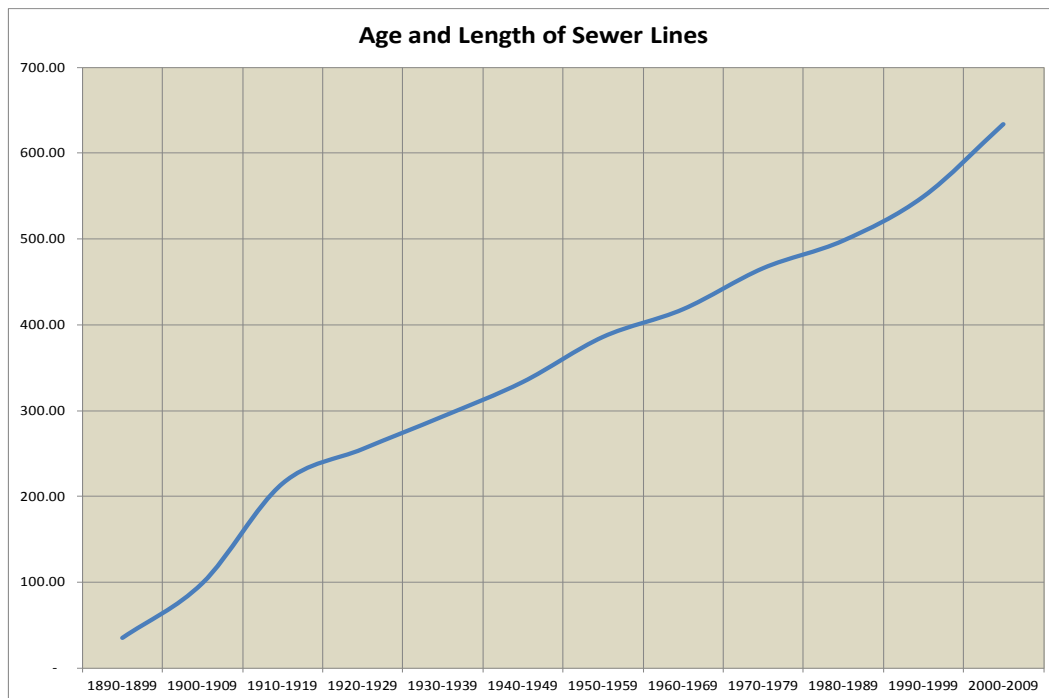


Figure 3. Pipeline Age & miles for the Salt Lake City Sewer Collection System

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

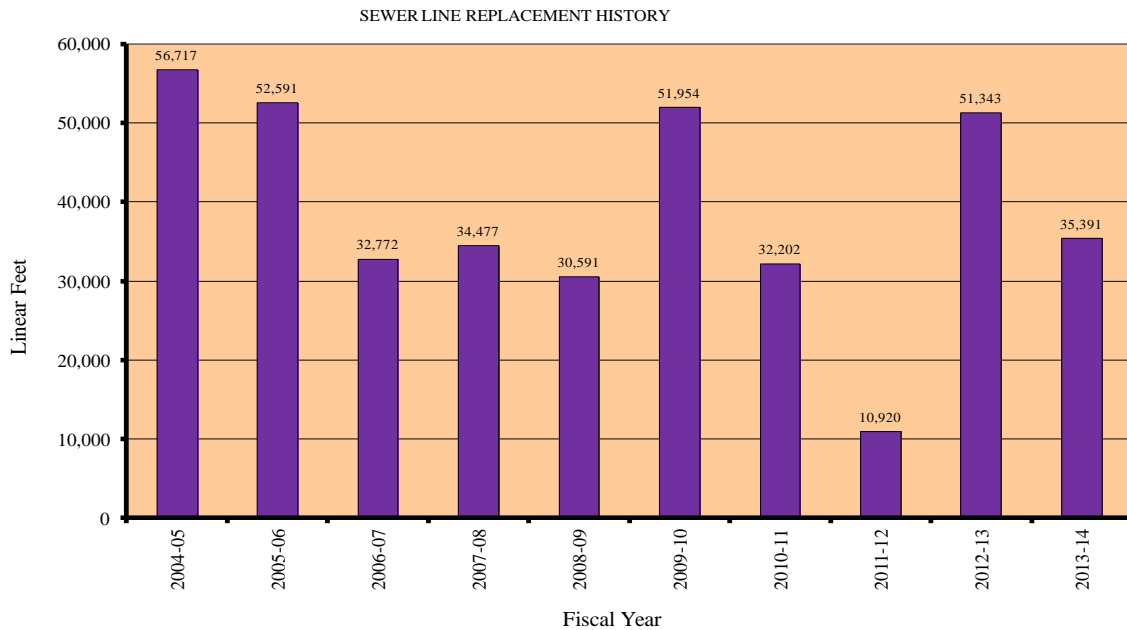


Figure 4. Sewer System Restoration Program in linear feet

Analysis of Estimated Revenue

The revenue budget is proposed to decrease <\$18,403,254> or <34.89%> to \$34,340,151 for 2015-16 from the \$52,743,405 in the 2014-15 budget. An analysis of the estimated revenue contained in the Department's Recommended Budget is as follows:

Revenue (Sewer)	Amended Budget 2014-2015	Proposed Budget 2015-2016	Difference	Percent
Sewer services fees	\$20,835,360	\$22,502,189	\$1,666,829	8.00%
Interest	250,000	250,000	0	0.00%
Permits	120,000	120,000	0	0.00%
Other	135,000	135,000	0	0.00%
Impact fees	350,000	350,000	0	0.00%
Contribution by developers	3,500,000	3,500,000	0	0.00%
Sale of property	20,000	20,000	0	0.00%
From (to) reserves	27,533,045	7,462,962	(20,070,083)	-72.89%
TOTAL	\$ 52,743,405	\$ 34,340,151	(\$18,403,254)	-34.89%

Explanation of revenue

Sewer service fees: Sewer service fees are expected to increase \$1,666,829 or 8% to \$22.5 million from \$20.8 million because of a proposed rate increase of 8%. The rate increase is needed to finance the capital improvement program.

Interest Income: Expected to remain constant with no change.

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

Permit fees: Permits are expected to remain constant with no change.

Other income: No Change.

Impact Fees: No changes in impact fees are budgeted

Contribution by developers: No change.

Reserve Funds: Reserve funds of \$7,462,962 will be required to provide the additional financing gap needed to finance the Sewer Utility's budgeted capital projects. These funds are from prior years' earnings and the 2013 Bond Issue reducing the utility's cash reserves. Budgeted use of reserve funds is down <72.89%> or \$20.1 million from the 2014-15 budget.

Analysis of Estimated Expenditures

The expenditure budget for the Utility is proposed to decrease <\$18,403,254> or <34.89%> to \$34,340,151 for 2015-16 from the \$52,743,151 in the 2014-15 budget. As shown below, the decrease is driven by the proposed reduction in the capital improvement program. The proposed budget for fiscal year 2015-16 by major category is as follows:

Major Expenditure Category (Sewer)	Amended Budget 2014-2015	Proposed Budget 2015-2016	Difference	Percent
Personnel services	\$8,507,009	\$8,841,535	\$334,526	3.93%
Materials and supplies	1,243,660	1,376,810	133,150	10.71%
Charges for services	5,260,845	5,008,306	(252,539)	-4.80%
Debt services	3,135,000	3,135,000	0	0.00%
Capital improvements	32,985,890	14,510,200	(18,475,690)	-56.01%
Capital outlay	1,611,001	1,468,300	(142,701)	-8.86%
TOTAL	\$52,743,405	\$34,340,151	(\$18,403,254)	-34.89%

Explanation of Expenditures

Personnel Services: The proposed budget increases \$334,526 from the prior year budget for a 2% COLA with no anticipated change in health insurance and retirement benefits costs. The Utility's budget for 2015-16 also anticipates the addition of one sewer collection lead employee and one pretreatment employee.

Materials & Supplies: The Sewer Utility's budget for this category increases \$133,150. These changes are:

- Chemicals increase \$114,000
- City building supplies increase \$9,500
- Non-motive parts increase \$7,000

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

Charges for Services: The budget for charges and services decreases <\$252,539> in the following areas:

- Increase of \$99,000 for payment in lieu of taxes
- Increase of \$22,850 in utilities
- Increase of \$20,000 in fees to the General Fund for administrative services
- Increase of \$10,000 for City fleet services
- Increase of \$8,100 for Travel and training
- Decrease in risk management premiums of <\$132,389>
- Decrease in professional and contract services of <\$687,500> reducing the outsourcing of large diameter sewer pipe cleaning services and including \$200,000 related to Google Fiber Network installation.
- Increase in other charges and services of \$7,400

Debt Service: - The annual debt service budget remains unchanged in 2015-16. Future bonds will increase debt payments when they occur.

Capital Outlay: - The proposed capital outlay budget decreases by <\$142,701> in 2015-16 to \$1,468,300, a decrease of <8.86%>. The 2015-16 capital outlay budget includes \$781,000 for a pipe cleaning truck, \$120,000 for a semi tractor, and \$92,500 for other equipment for cleaning large diameter collection pipes. The Department budgeted \$49,500 for vehicles, \$154,300 for treatment plant equipment, \$10,000 for telemetering equipment, \$20,000 for office furniture, and \$230,000 for other non motive equipment.

Capital Improvements: - The proposed capital improvement program includes rehabilitation of more than 42,625 feet of collection pipes—1.2% of the collection system—upgrades and expansions at the reclamation plant, and the ongoing remediation to the Northwest Oil Drain. The general project types budgeted for fiscal 2015-16 are listed on the following page:

Proposed Sewer CIP Budget for Fiscal Year 2015-2016	
Type of Project	Budget Amount
Collection Lines	\$7,715,200
Treatment Plant	3,645,000
Oil Drain Canal Remediation	3,000,000
Lift Stations	150,000
Maintenance and repair shops	0
Land	0
Total 2015-2016 Capital Improvement Program	\$14,510,200

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

STORMWATER UTILITY ENTERPRISE FUND

SUMMARY OF MAJOR STORMWATER BUDGET ISSUES

Below are the suggested budget summary proposals for 2015-16:

No Rate Change

Stormwater continues a modest capital improvement program with projected revenue considered sufficient to handle capital and operational needs for several years without a rate increase.

Stormwater Collection System Improvements

The Stormwater Capital Improvement budget includes \$425,000 for lift stations and \$3,492,500 in collection lines including \$231,500 for riparian corridor projects and \$3.3 million for 10 other collection line improvement projects.

Riparian Corridor Stream Projects

The amount budgeted for Riparian corridor projects total \$231,500 and are 4% of the Utility's capital improvements budget. Riparian projects planned for 2015-16 are Parley's Park, Wasatch Hollow Park, and several design projects.

Northwest Oil Drain Canal Remediation

The Stormwater Utility continues to be involved in the Department's efforts to ensure compliance with the EPA in regard to the Northwest Oil Drain Canal and has budgeted a \$1.6 million for the Storm Utility's anticipated project costs (\$3 million in the Sewer Utility portion). The Department anticipates spending \$4.6 million of which \$3.1 million will be reimbursed; Chevron and British Petroleum combined reimburse the Department 2/3 of the cost incurred.

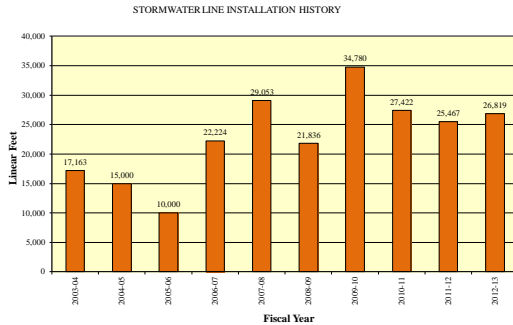
Google Fiber Network

The Stormwater Fund budget includes \$100,000 for engineering inspection and location to coordinate network installation with existing stormwater lines and rights of way.

Stormwater Infrastructure Background

The last Drainage Master Plan was completed in 1993. The projects identified in the Master Plan are currently being constructed. In the last ten years 39.4 miles of storm drain pipe has been installed (Figure 5). Some of the major projects are listed in Figure 6.

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET



2000 200 So Pump Station Jordan River...	\$850k
2006 900 South Storm Drain.....	\$16m
2007 CWA #2 Pump Station.....	\$1.2m
2008 City Creek Diversion	\$4m
2009 Upgrade Oil Drain Station.....	\$700k
— Westside Drainage Channels.....	(ongoing)
— Replace Cross Drains in Av.....	(ongoing)
2012 Folsom Storm drain	\$8m
2013 500 South pump station	\$1m

Figure 6. Recent Major Drainage Projects 10 Years.

Figure 5. New Drainage Pipe Installed in the Last 10 Years

Analysis of Estimated Revenue

An analysis of the estimated revenue anticipated in the budget for the Stormwater Fund is as follows:

Revenue (Storm)	Amended Budget 2014-2015	Proposed Budget 2015-2016	Difference	Percent
Operating sales	\$8,050,000	\$8,050,000	\$0	0.00%
Interest	100,000	100,000	0	0.00%
Impact fees	200,000	200,000	0	0.00%
Contributions by developers	516,000	516,000	0	0.00%
Other	1,000	1,000	0	0.00%
From (to) reserves	6,161,278	3,203,398	(2,957,880)	-48.01%
TOTAL	\$15,028,278	\$12,070,398	(\$2,957,880)	-19.68%

Explanation of revenue

Operating Sales: No change.

Interest Income: No change.

Impact Fees: No change.

Contributions by Developers: No change.

Other Fees: No change.

Reserve Funds: Reserve funds of \$3,203,398 will be required to provide financing needed for the Utility's capital improvement program. These reserve funds, from prior years' earnings and from recent bond issues, directly reduce the Utility's cash reserves. Budgeted use of reserve funds is down <48.01%> or \$3.0 million from the 2014-15 budget.

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

Analysis of Estimated Expenditures

The expenditure budget for the Department is proposed to decrease <\$2,957,880> or <19.68%> from the 2014-2015 budget. The proposed budget for fiscal year 2015-16 by major expenditure category is as follows:

Major Expenditure Category (Storm)	Amended Budget 2014-2015	Proposed Budget 2015-2016	Difference	Percent
Personnel services	\$2,244,986	\$2,290,764	\$45,778	2.04%
Materials and supplies	134,850	147,500	12,650	9.38%
Charges for services	2,654,434	3,050,134	395,700	14.91%
Debt service	1,020,000	1,020,000	0	0.00%
Capital improvements	8,411,008	5,527,500	(2,883,508)	-34.28%
Capital equipment	563,000	34,500	(528,500)	-93.87%
TOTAL	\$15,028,278	\$12,070,398	(\$2,957,880)	-19.68%

Explanation of Expenditures

Personnel Services: The proposed budget increases \$45,778 or 2.04% for a 2% COLA with no anticipated change in health insurance and retirement benefits costs. The budget anticipates no increase in personnel for the Stormwater Utility.

Materials & Supplies: Chemicals increase \$6,000, computer supplies increase \$2,650, and asphalt, sand and gravel increase \$4,000.

Charges & Services: This category increase \$395,700. The increase is related to the following charges and services:

- Professional and contract services increase \$390,750
 - New engineering inspection and utility location costs of \$100,000 related to the Google Fiber Network installation.
 - Decreases in other professional and technical services of <\$29,250>
 - New consultant studies for \$320,000
 1. Tracy Aviary educational program \$150,000
 2. lift Station Corrosion Study \$25,000
 3. Water Quality permits \$75,000
 4. Public outreach and canal inspection \$45,000
 5. Sharepoint software \$25,000
- Other charge and services increase \$3,450 .

Debt Service: The amount of budgeted debt service is expected to remain at \$1,020,000.

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

Capital Equipment: The proposed capital equipment budget decreases \$528,500 to \$34,500 a significant decrease from 2014-15's capital equipment budget of \$563,000. The capital equipment budget decreased because a \$360,000 vector truck and a \$166,000 excavator were budgeted in 2014-15.

Capital Improvements: The proposed capital improvement budget of \$5,527,500 is \$2,883,508 less than 2014-15. The capital improvement budget for 2015 – 2016 includes major categories of projects as follows:

Proposed CIP Budget for Fiscal Year 2015-2016	
Type of Project	Budget Amount
Collection Lines	\$ 3,261,000
Riparian Corridor Improvements	231,500
Lift Stations	425,000
Landscaping	1,610,000
Total 2015-2016 CIP Budget	\$5,527,500

Stormwater Utility's capital improvement budget for 2015-16 anticipates \$325,000 construction on the Swede Town Lift Station, \$356,000 for a storm drain on 2100 East, \$345,000 for a new storm drain on 5500 West, an \$800,000 widening of the Brighton Drain, a \$750,000 culvert at Sunnyside Avenue, and five riparian corridor projects including \$115,000 for Parleys Park, \$60,000 for Wasatch Hollow Park, and \$56,000 for design projects. The landscaping budget includes \$1.6 million for the Northwest Oil Drain remediation.

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

STREET LIGHTING UTILITY ENTERPRISE FUND

SUMMARY OF MAJOR STREET LIGHTING BUDGET ISSUES

Below are the suggested budget summary proposals for 2015-16:

No Rate Change

The rates were established the beginning of January 2013 for \$3.73 per month for an average residential customer, or Equivalent Residential Unit (ERU), and are expected to remain unchanged for this fiscal year. There is an understanding that the fee would be re-evaluated with the City Council after 5 years in 2018.

Street Lighting Capital Program

The Street Lighting Capital Program focuses on replacing aging infrastructure with energy efficient upgrades. Improvements totaling \$950,000 are planned in the 2015-16 fiscal with increases to \$1 million anticipated in subsequent years.

Street Lighting Infrastructure Background

Of the 15,362 lights that the city maintains 4,662 or 30% are now considered to be highly energy efficient. We are in the third year of a ten year goal to convert all of the lights to high energy efficiency lamps. This means that this coming fiscal year would see another 1,500 lights converted. The estimated energy savings will be about \$45,000 a year.

Analysis of Estimated Revenue

An analysis of the estimated revenue anticipated in the budget for the Street Lighting Fund is as follows.

Revenue (Lights)	Amended Budget 2014-2015	Proposed Budget 2015-2016	Difference	Percent
Operating sales	\$3,200,000	\$3,200,000	0	0.00%
Interest	30,000	30,000	0	0.00%
Other	2,000	2,000	0	0.00%
Bonds / Grants	0	0	0	0.00%
From (to) reserves	(26,047)	(25,903)	144	0.55%
TOTAL	\$3,205,953	\$3,206,097	144	0.00%

Explanation of revenue

Operating Sales: Operating sales are expected to remain unchanged from the prior year amended budget.

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

Interest Income: Interest rates and Street Light Utility's cash balance are not anticipated to change; accordingly, budgeted interest income is unchanged from FY 2014-2015.

Other Fees: Other fees are budgeted to remain unchanged.

Bonds: No bond issues are currently proposed.

Reserve Funds: The budget anticipates adding \$25,903 to the reserve utility's fund in 2015-16.

Analysis of Estimated Expenditures

The Department proposes an expenditure budget of \$3,206,097 for the Street Lighting Utility. The proposed budget for fiscal year 2015-16 by major expenditure category is shown below:

Major Expenditure Category (Lights)	Amended Budget 2014-2015	Proposed Budget 2015-2016	Difference	Percent
Personnel services	\$232,128	\$232,272	144	0.06%
Materials and supplies	0	0	0	0.00%
Charges for services	2,023,825	2,023,825	0	0.00%
Debt service	0	0	0	0.00%
Capital improvements	950,000	950,000	0	0.00%
Capital equipment	0	0	0	0.00%
TOTAL	\$ 3,205,953	\$ 3,206,097	144	0.00%

Explanation of expenditures

Personnel Services: The proposed budget increases \$144 or 0.06%. A 2% COLA with no increase for health insurance and retirement benefit costs result in a slight increase to budgeted Personnel service expenditures.

Materials & Supplies: No materials and supplies are anticipated as Utility has a contract to maintain Streetlights.

Charges & Services: The proposed budget for charges and services remains unchanged at \$2,023,825. :

Debt Service: The Utility has no outstanding bonds or debt. Accordingly, no debt service is budgeted.

Capital Equipment: No expenditures for capital equipment are planned.

Capital Improvements: The proposed CIP budget is \$950,000. The capital improvement budget for 2015 – 2016 is as follows:

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

Proposed CIP Budget for Fiscal Year 2015-2016	
Type of Project	Budget Amount
Street lighting replacement program	\$950,000
Total 2015-2016 CIP Budget	\$950,000

The capital improvement program includes \$96,000 to upgrade lighting on arterial and collector streets, \$100,000 to upgrade the base level, \$276,000 to replace high wattage lamps, and \$478,000 to focus on specific locations including \$240,000 for the 9th and 9th neighborhood, \$120,000 for 600 North interchange and the 500 and 600 South interchange.

2015/2016 PUBLIC UTILITIES RECOMMENDED BUDGET

Proposed CIP Budget for Fiscal Year 2015-2016	
Type of Project	Budget Amount
Street lighting replacement program	\$950,000
Total 2015-2016 CIP Budget	\$950,000

The capital improvement program includes \$96,000 to upgrade lighting on arterial and collector streets, \$100,000 to upgrade the base level, \$276,000 to replace high wattage lamps, and \$478,000 to focus on specific locations including \$240,000 for the 9th and 9th neighborhood, \$120,000 for 600 North interchange and the 500 and 600 South interchange.

Executive Summary

Water Rate Increase of 4% / Sewer Rate Increase of 8%

Additional Employees

Expansion of the Sewer Pretreatment Program adding (1) Pretreatment Investigator, adding one new Lead person Collection Worker to perform large diameter sewer line cleaning, and additional Seasonal Workers to help with weed abatement and maintenance services in the watershed.

New Deputy Director Position

Request to promote our Water Resource Manager position to a new Deputy Director position to assist in the Department's succession planning

Proposed Water Rate Increases by Metropolitan Water District

2015-16	11%	2018-19	4%
2016-17	10%	2019-20	4%
2017-18	7%	2020-21	4%

Major Construction Projects:

PRV Replacement and Power Generation Turbine at 500 South and 1000 East \$1.0 million
Design Costs for Influent Pump Station and Nutrient Design - \$1.3 million
Emergency Generator Upgrade Reclamation Plant - \$1.9 million
Orange Street Sewer Line Phase III - \$3.4 million
Oil Drain Canal EPA Remediation - \$4.6 million
Street Lighting Efficiency Projects - \$950,000

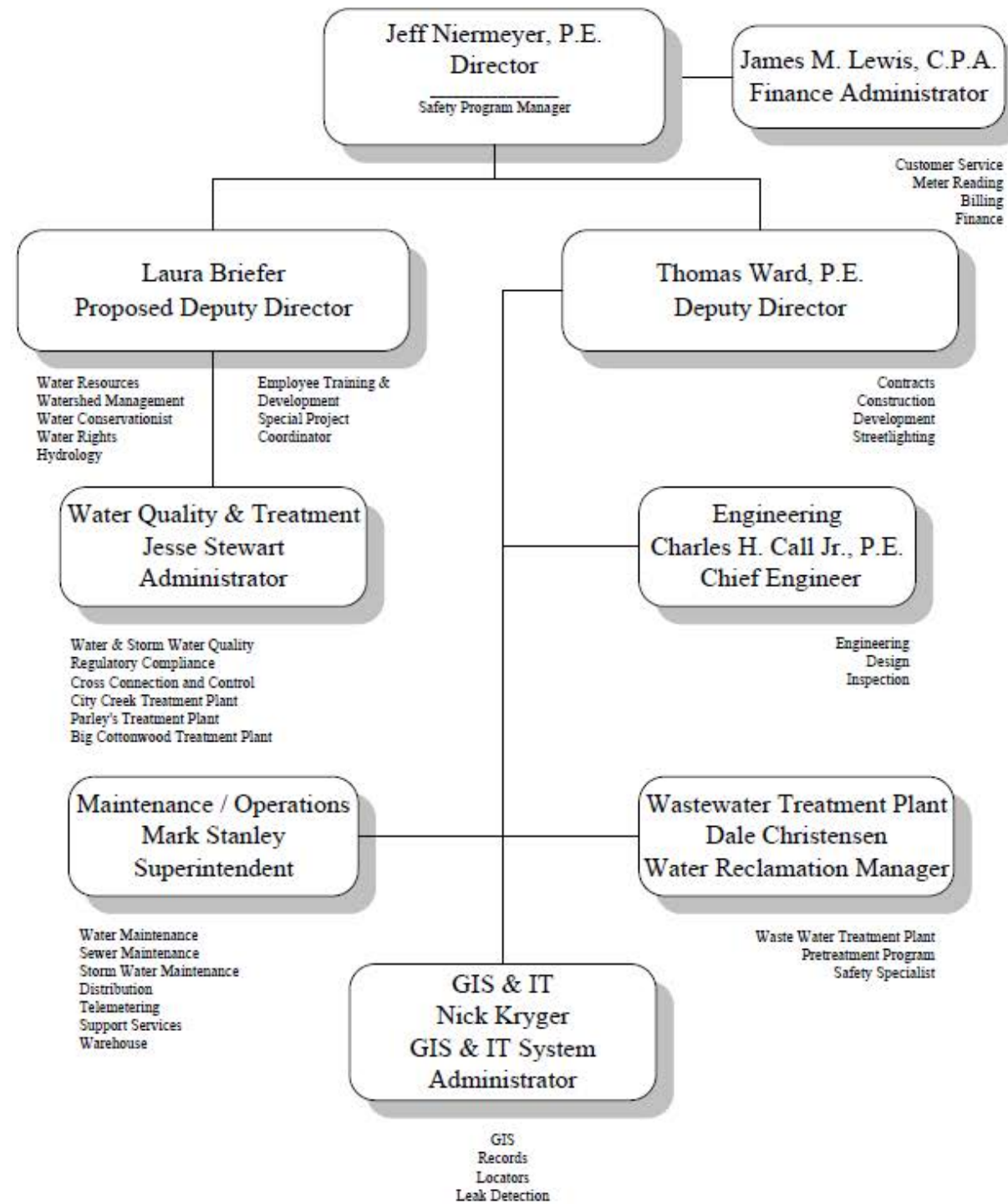
Proposed Future EPA Regulations for nutrient removal at sewer treatment plant

Google Fiber Network coordination estimate cost of \$600,000 per year

Requires 2 blue stake inspectors and engineers for a two year period
Department will hire temps to replace employees assigned to the Google coordination

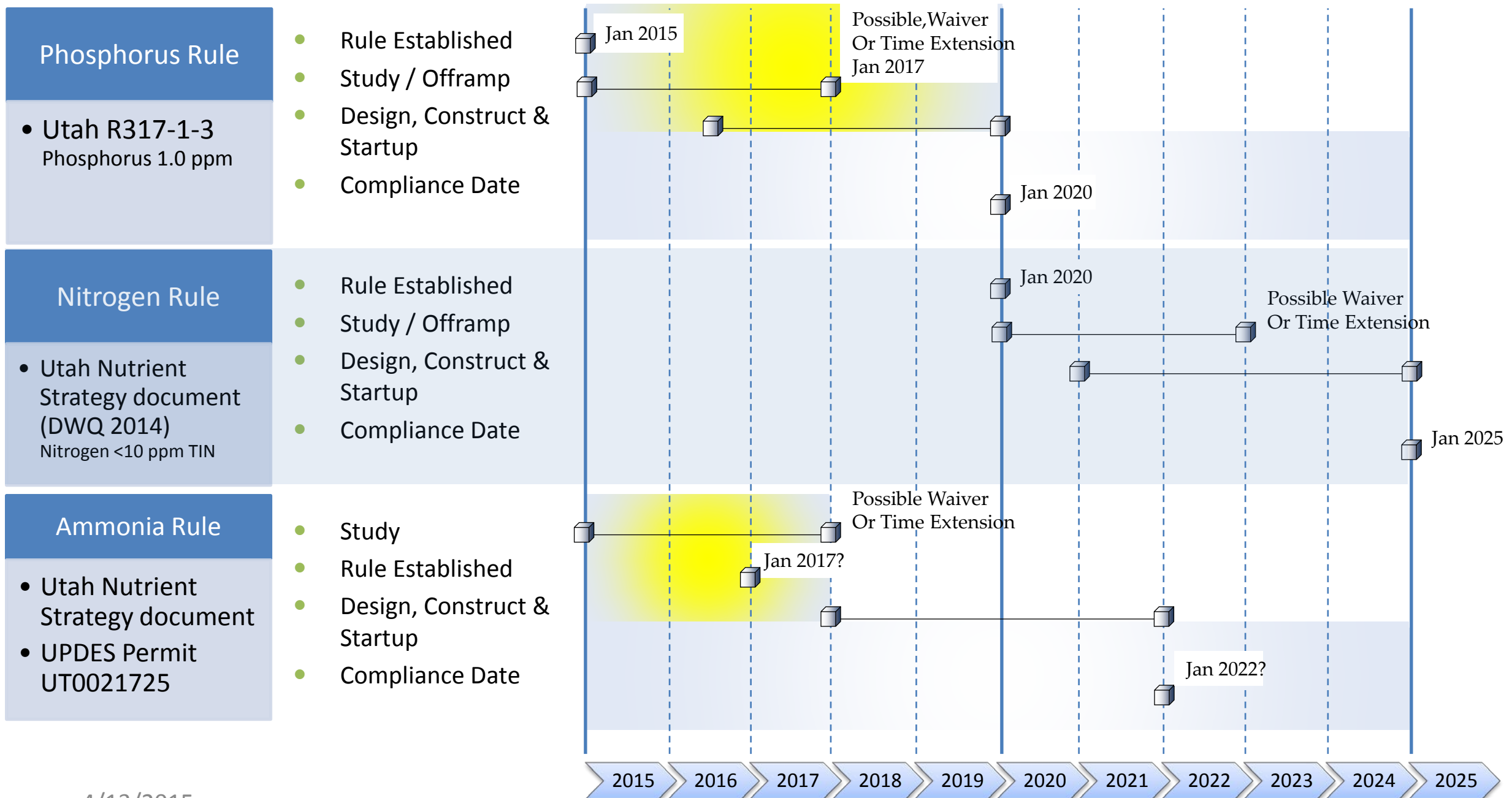
PUBLIC UTILITIES

Organizational Structure
Fiscal Year 2015-16



SLC Water Reclamation Facility

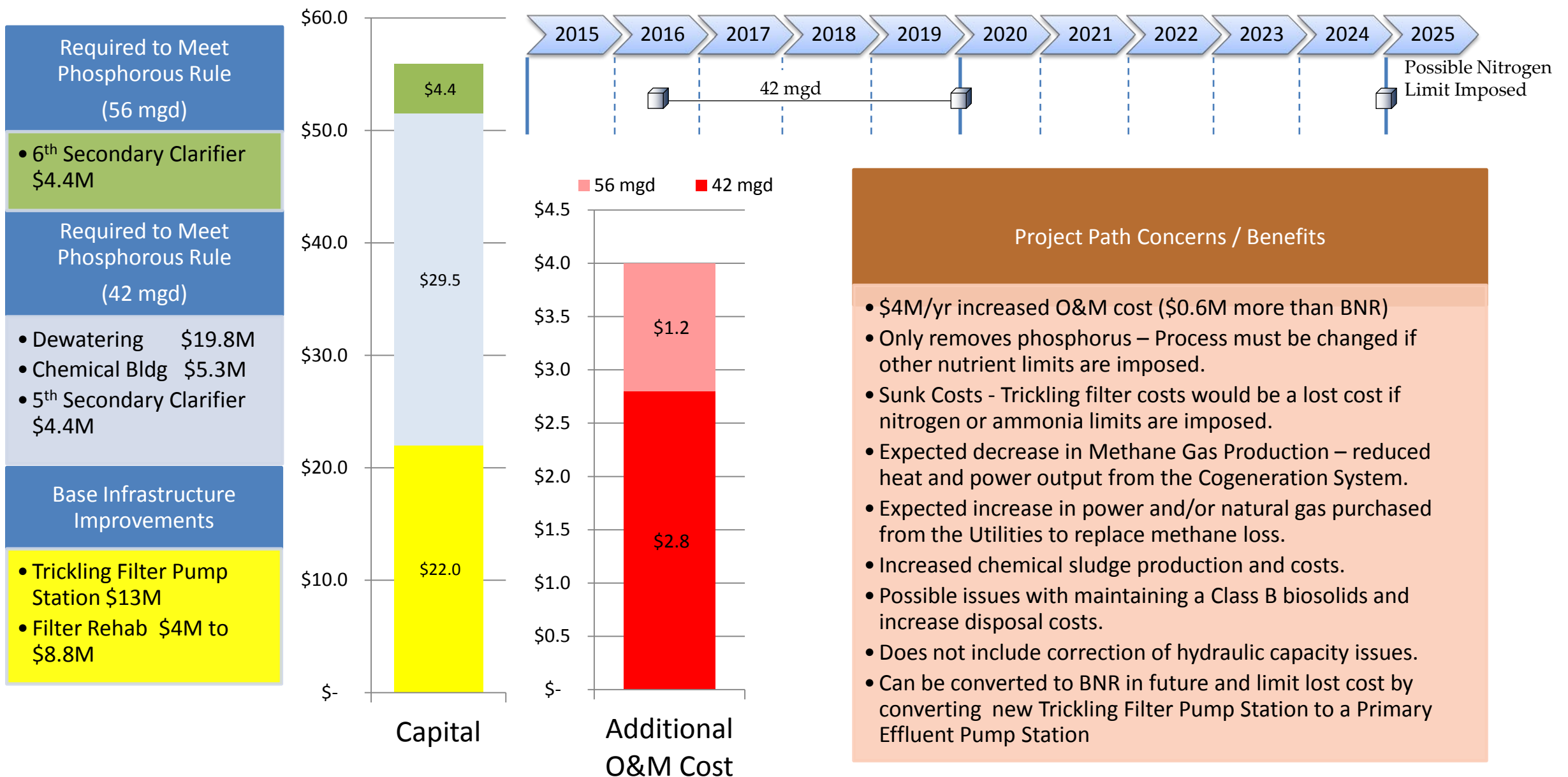
Nutrient Regulatory Path



SLC Water Reclamation Facility

Nutrient Removal Option 1

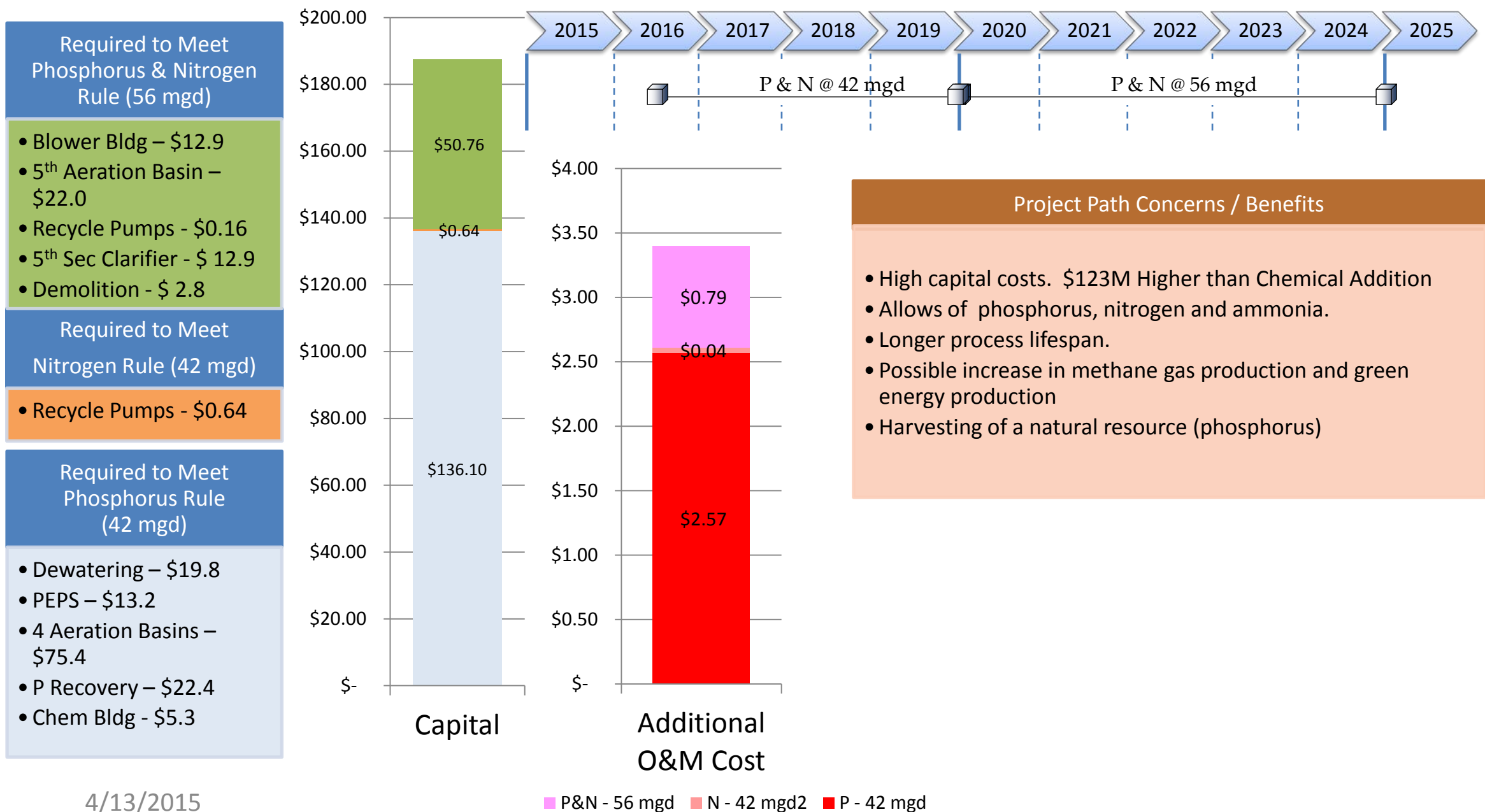
Chemical Addition (Phosphorous Only) \$56M



SLC Water Reclamation Facility

Nutrient Removal Option 2

Biological Nutrient Removal (BNR) \$187M



Sacramento, California Sewer Treatment Plant to Get \$2 Billion Upgrade

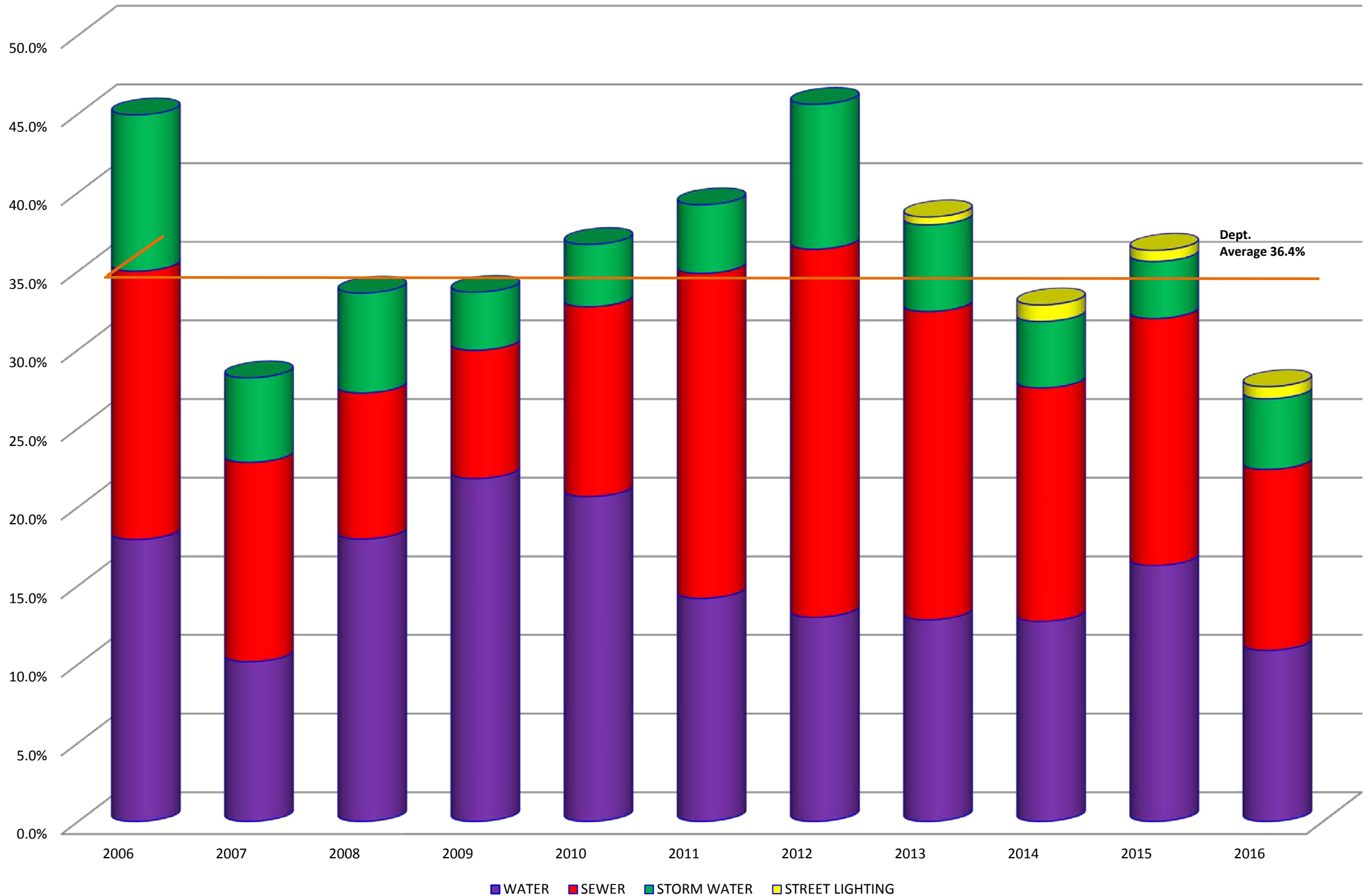


- Work is underway to upgrade the [sewage treatment](#) plant in Sacramento, California, at a cost of up to \$2 billion.
- A key part of the upgrade will be construction of a biological nutrient removal facility, consisting of a series of open-air tanks filled with bacteria and other microbes that ingest ammonia.
- An \$18 million pilot facility built by the Sacramento Regional Sanitation District, which operates the sewage treatment plant, showed that the proposed upgrade will meet the state's requirement for ammonia reduction.
- Local people have already seen their monthly bills rise from \$26 to \$29 to help pay for the project, and two further increases of \$3 are planned in the next two years. Eventually, bills are expected to rise to between \$41 and \$45 a month.
- Under the deadlines set by the state, the ammonia-removal facility should be in operation by 2021 and the disinfectant process by 2023.

Proposed Rate Increases

Year	Water	Sewer	Stormwater	Street Lighting
2015-16	4%	8%	0%	0%
2016-17	4%	30%	0%	Five Year Review
2017-18	4%	30%	0%	0%
2018-19	4%	30%	0%	0%
2019-20	4%	25%	0%	0%
2020-21	4%	10%	0%	0%
2021-22	4%	8%	0%	0%
2022-23	4%	4%	0%	0%
2023-24	4%	4%	0%	0%
<u>2024-25</u>	<u>4%</u>	<u>4%</u>	<u>0%</u>	<u>0%</u>
Ten Yr. Total	40%	153%	0%	0%

Public Utilities CIP Budget as a Percent of Department Requested Budget



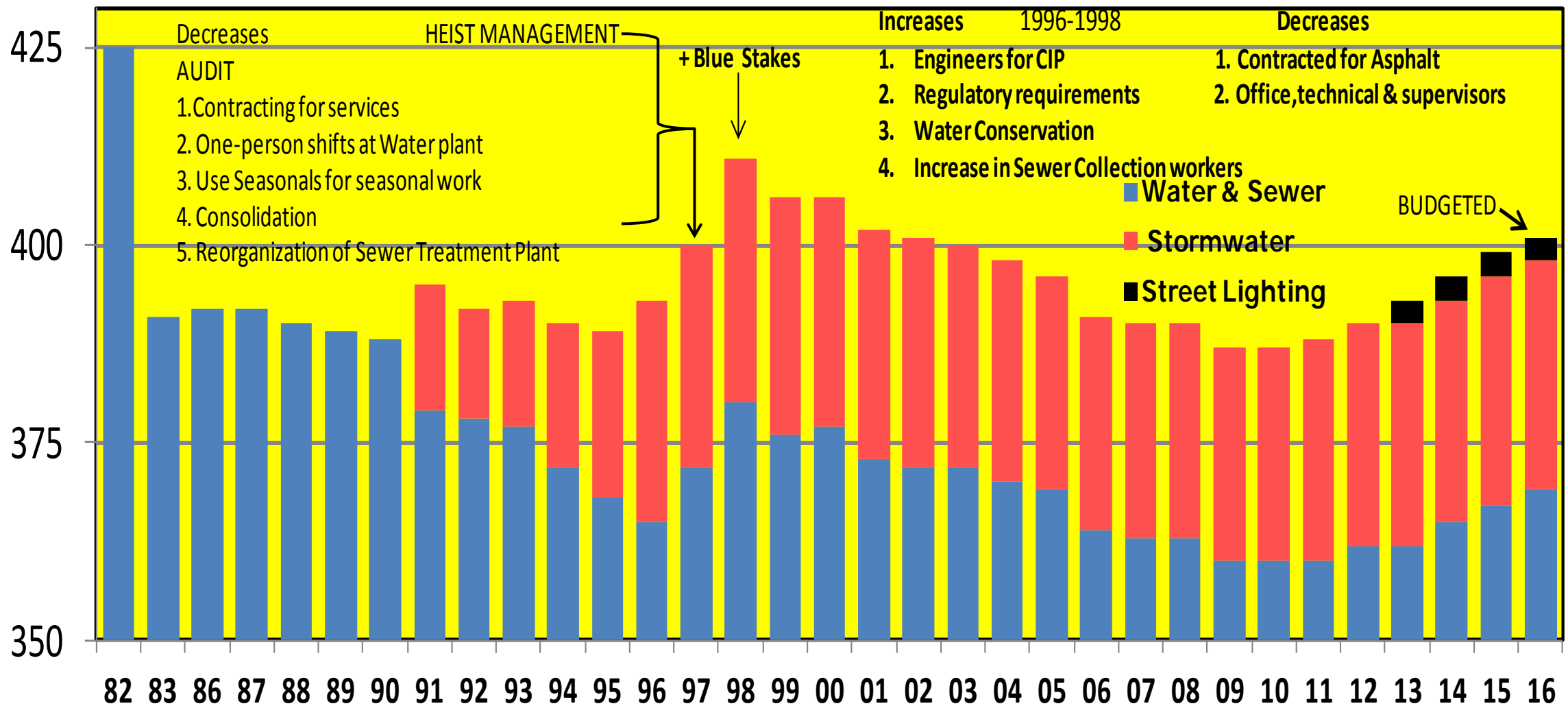
Proposed Personnel Adjustments 2015/16

Agency	Water	Sewer	Storm	Street Lights	Total
Prior FY Begin Balance FTEs	258.8	108.35	29.35	3	399.50
Changes for Proposed Budget:					
a) Sewer Collection Lead Wk		1			1
b) Sewer Pretreatment Investigator		1			1
Total increase of 2 FTEs for Department		2			2
Agency Totals for 2015/16	258.8	110.35	29.35	3	401.50

PUBLIC UTILITIES

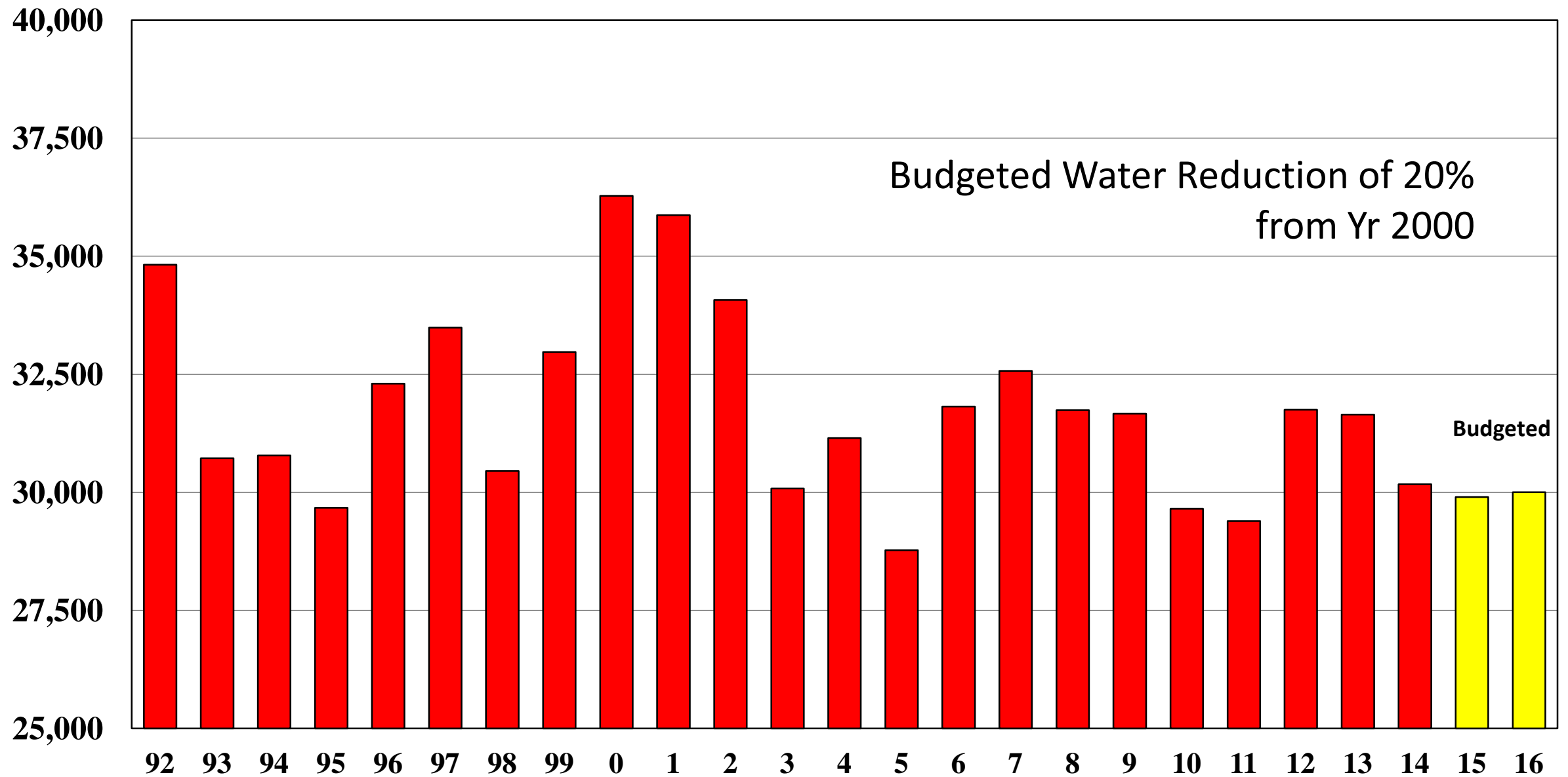
NUMBER OF EMPLOYEES BY FISCAL YEAR

of Employees

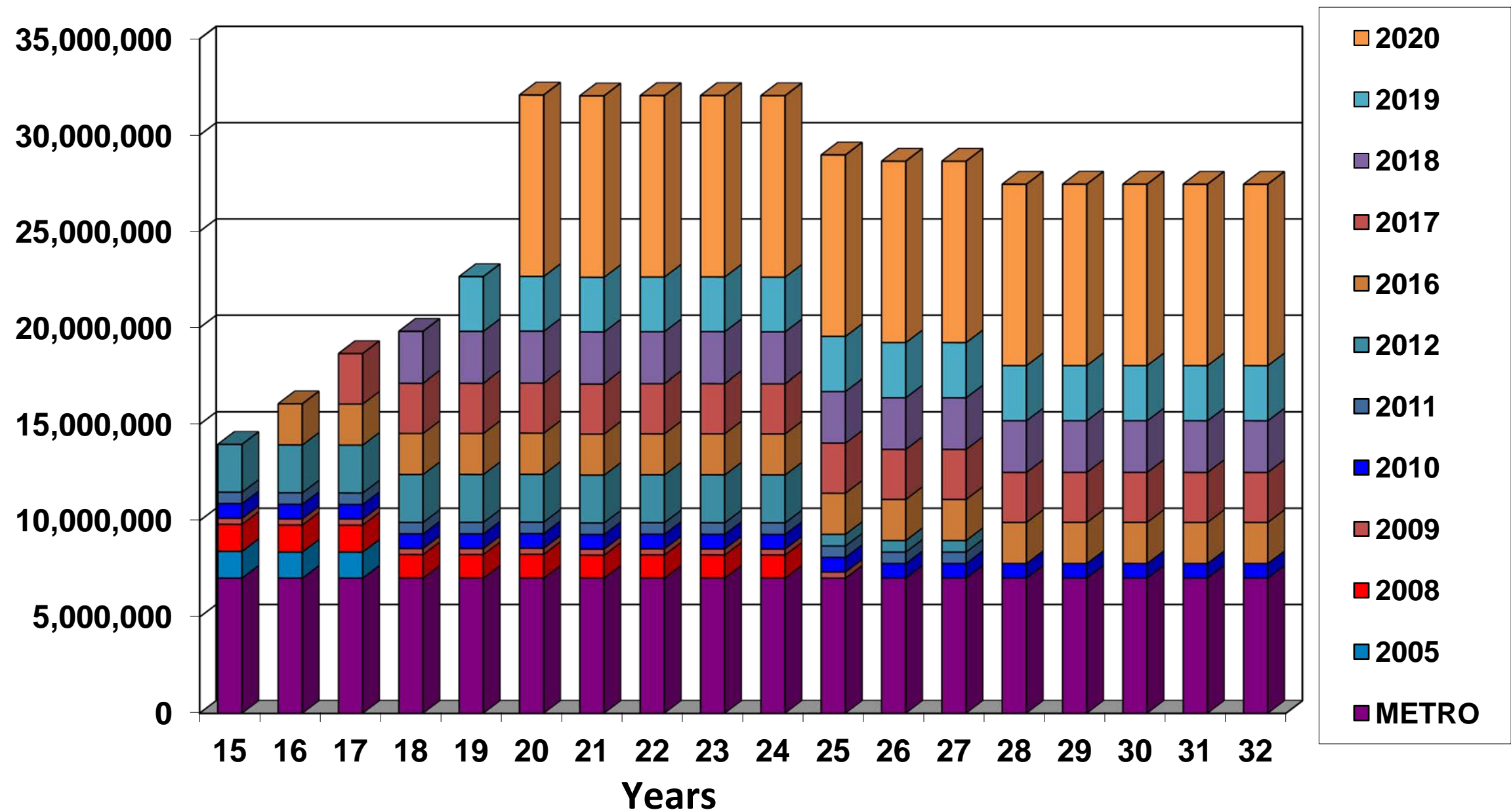


Water & Sewer Storm Street lighting																																		
	425	425	391	392	392	390	389	388	379	378	377	372	368	365	372	380	376	377	373	372	372	370	369	364	363	363	360	360	360	362	363	365	367	369
									16	14	16	18	21	28	28	31	30	29	29	29	28	28	27	27	27	27	27	27	27	28	28	28	29	29
# of Water Connections	77,959	78,606	80,861	81,586	80,860	82,640	83,129	84,098	84,526	85,921	86,860	86,665	87,233	88,514	89,191	90,893	89,176	90,218	90,766	91,283	91,751	92,855	92,844	90,748	90,912	90,920	90,976	90,958	90,624	90,251	90,849	90,435	?	

MILLION GALLONS DELIVERED BY YEAR

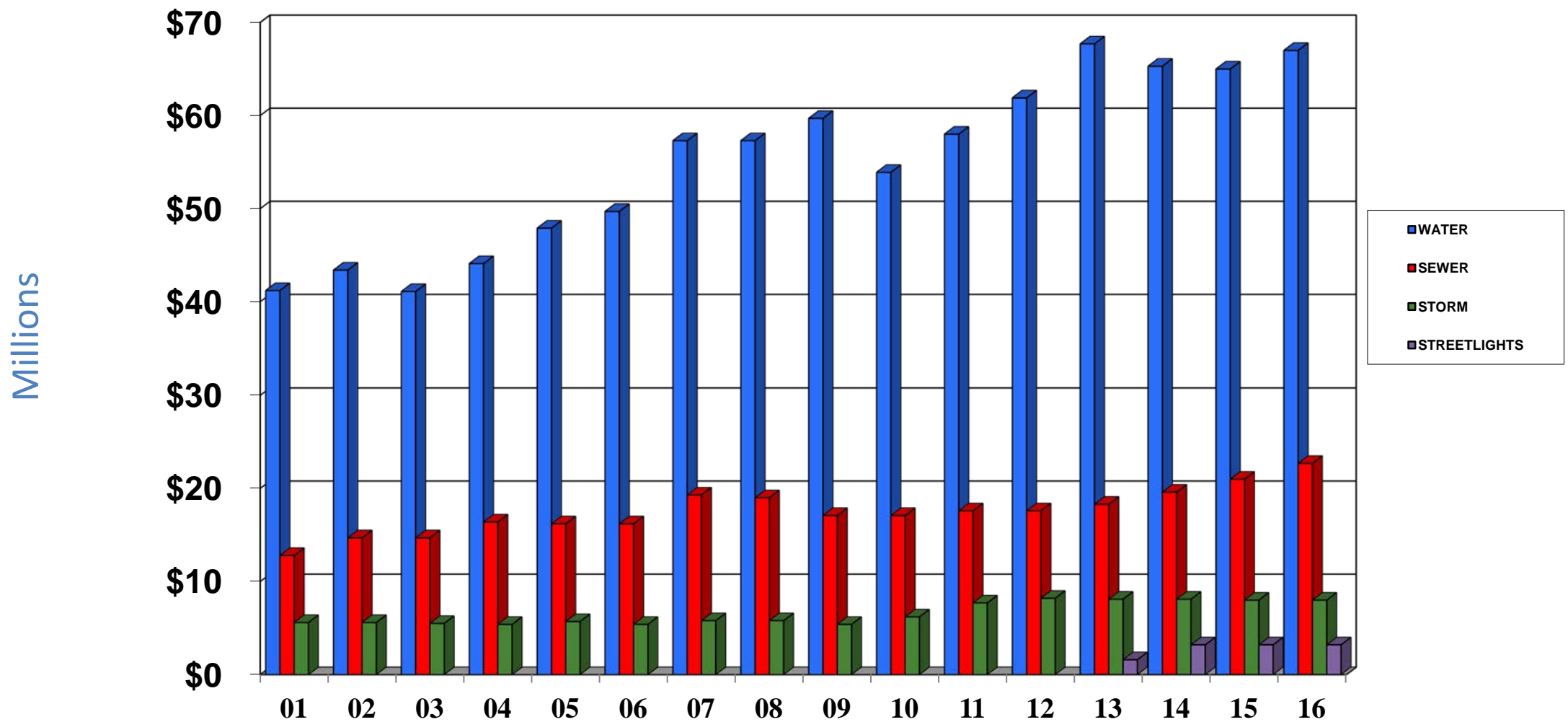


Public Utilities Proposed Debt Service Schedule and Metropolitan Water Assessment

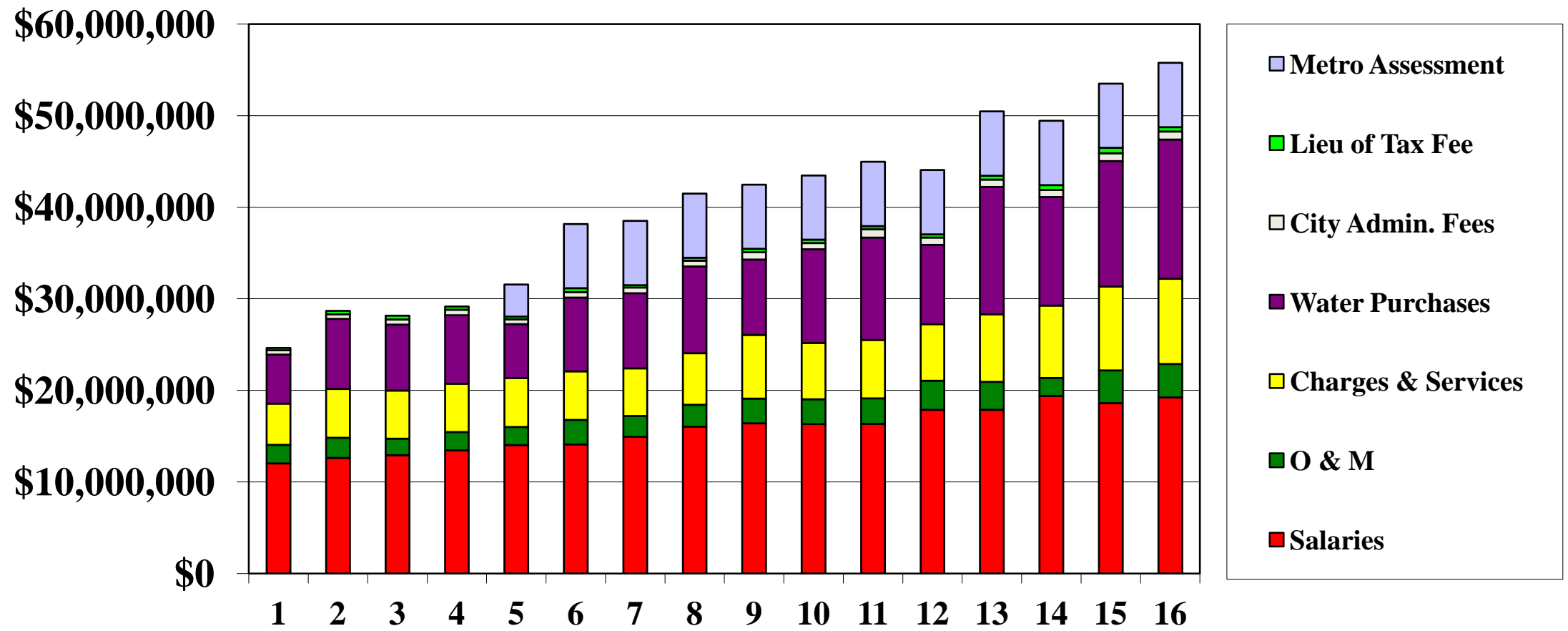


Public Utilities

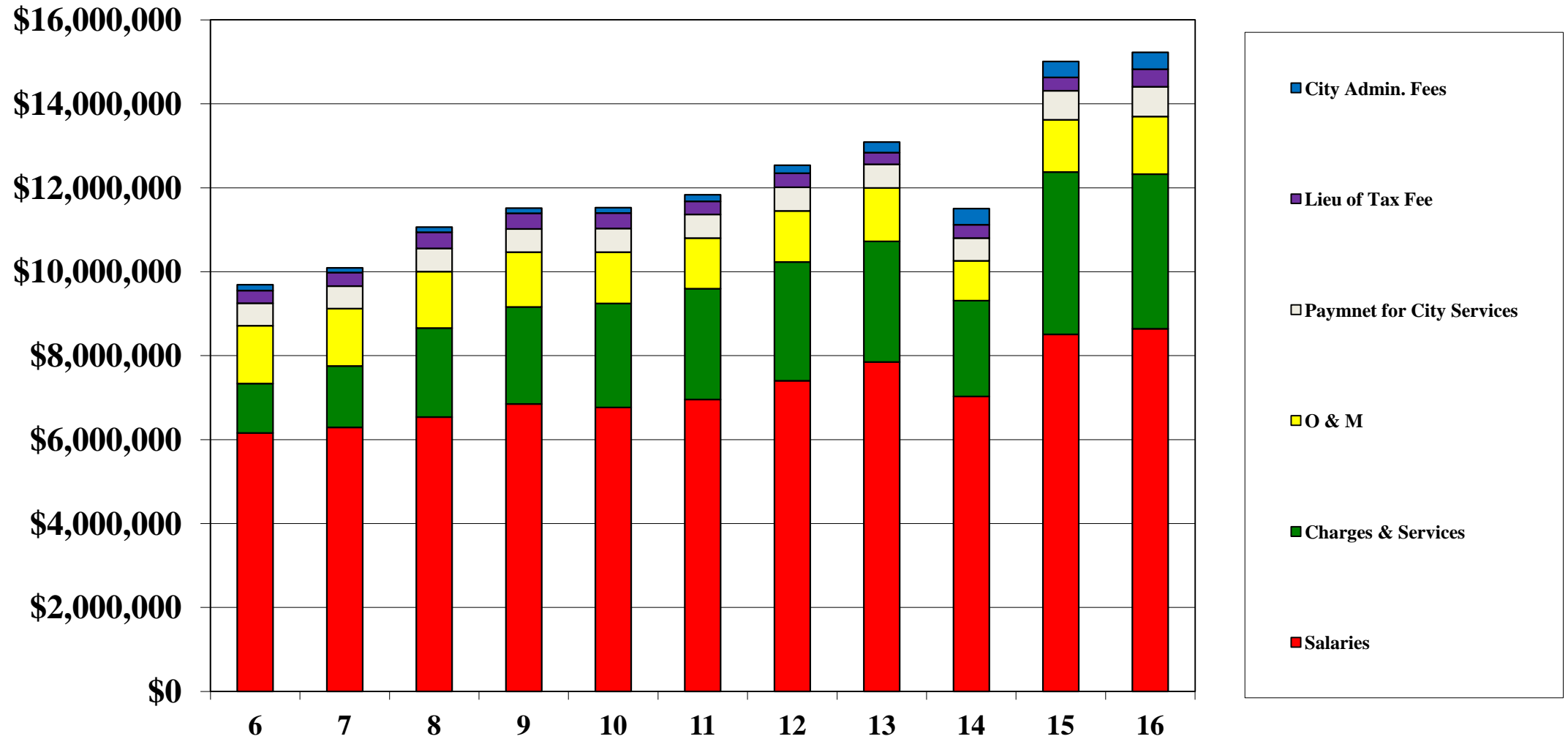
Operating Revenue



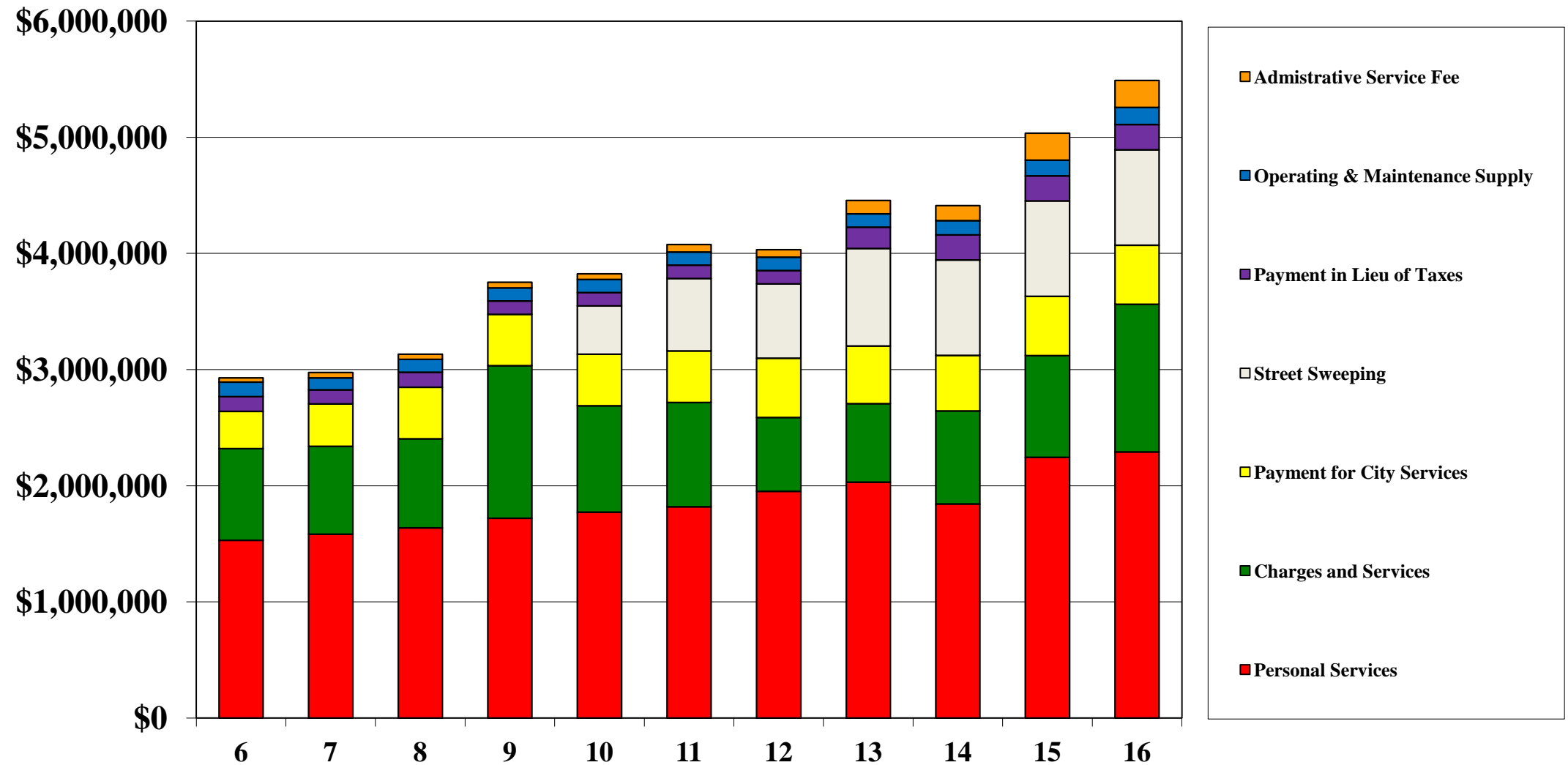
WATER UTILITY OPERATING COSTS



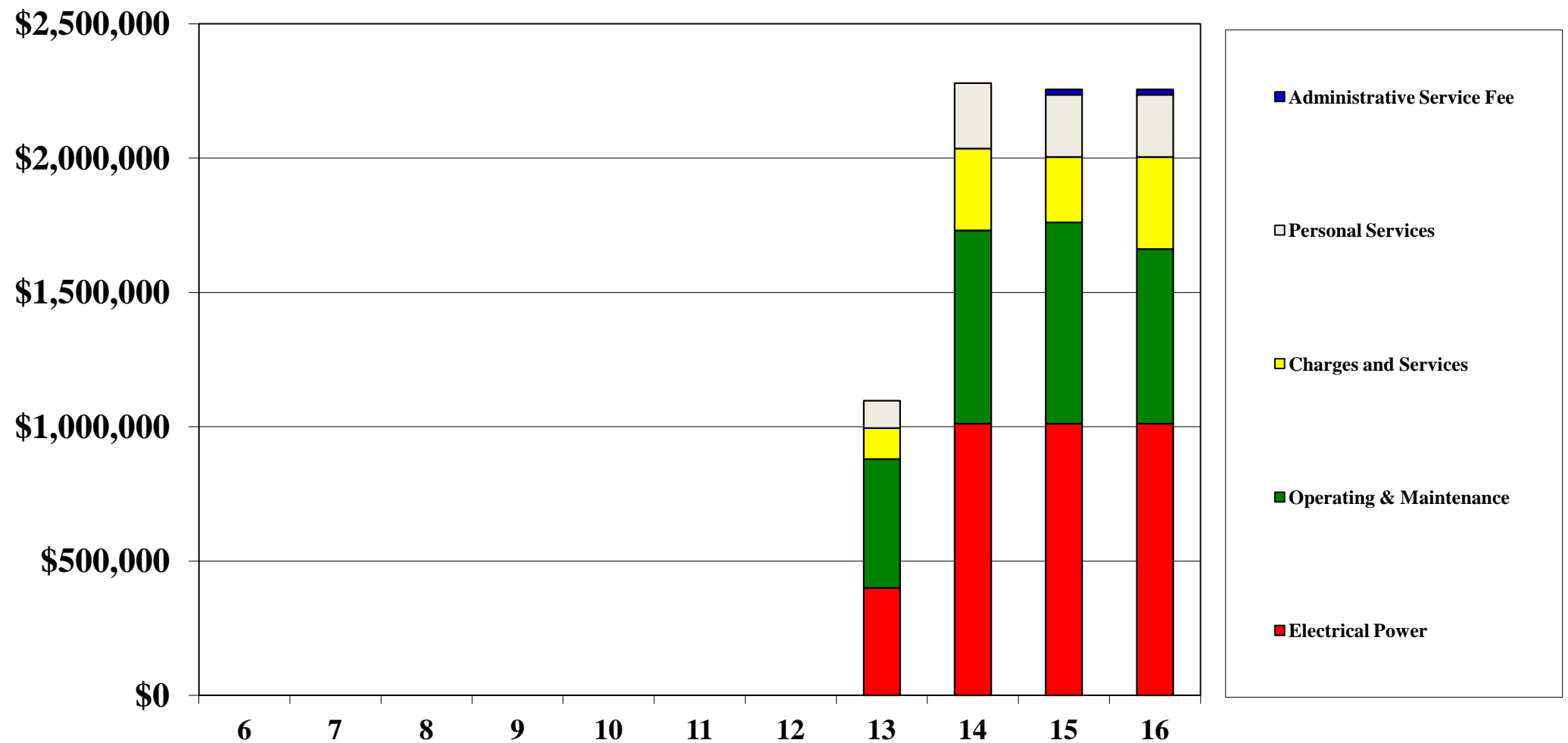
SEWER UTILITY OPERATING COSTS



STORM WATER UTILITY OPERATING COSTS



STREET LIGHTING UTILITY OPERATING COSTS



Major Budget Changes Water

- **Salaries:** Cola 2% , Insurance 0%, Retirement 0% and step upgrades **\$ 627,274**
- **Increase Operation & Maint.:** **\$ 79,275**
 Water Treatment Plant Maintenance \$29,000, Laundry & Linen \$3,000, Computer Supplies \$19,350, Parts and Tools \$12,825, GIS Aerial Mapping \$9,900, Water Standard \$3,700, Other increases \$1,530.
- **Increase in Metropolitan Water District** **\$ 1,509,488**
 Rate increase of 11% which equals an increase of \$28.60 per acre foot (from \$260 to \$288.60 per acre foot water)
- **Increase in Utilities** **\$ 32,500**
- **Increase in Administrative Fees** **\$ 30,000**
- **Chemical Analysis** **\$ 15,950**
- **Decrease in Intra-departmental charges** **\$ <108,619>**

Major Budget Changes Water---CONT.

<ul style="list-style-type: none"> • Increase in Special Consultants <ul style="list-style-type: none"> • Assessments on Canals and Wells \$200,000, Water Data Management System \$100,000, SharePoint Consultant \$50,000, Wire to Water Efficiency Study \$100,000, Canyon Mountain Accord \$150,000, Public outreach and Grant match \$35,000, Impact fee study \$25,000, Secondary Water Supply and Wasatch Legacy \$159,000, and Admin Building Pre-Design \$50,000 	<ul style="list-style-type: none"> • \$ 869,000
<ul style="list-style-type: none"> • Decrease in Professional and Technical Services – Studies Completed- Google Fiber <ul style="list-style-type: none"> • Cost of Google Fiber network \$300k for GIS blue stakes and locators. 	<ul style="list-style-type: none"> • \$ <687,950>
<ul style="list-style-type: none"> • Travel and Conferences 	<ul style="list-style-type: none"> • \$ 9,590
<ul style="list-style-type: none"> • Increase in IMS charges 	<ul style="list-style-type: none"> • \$ 75,000
<ul style="list-style-type: none"> • Risk Management and Claims & Damages 	<ul style="list-style-type: none"> • \$ <59,902>
<ul style="list-style-type: none"> • Decrease in Payment in lieu of taxes 	<ul style="list-style-type: none"> • \$ <112,000>
<ul style="list-style-type: none"> • Decrease in Equipment and Barricade Rental 	<ul style="list-style-type: none"> • \$ <u><10,000></u>
<ul style="list-style-type: none"> • Total increases (4.1% increase in O&M) 	<ul style="list-style-type: none"> • \$ 2,169,606

Major Budget Changes Sewer

• Salaries	• \$ 334,526
• Cola 2% , Insurance 0%, Retirement 0%, step upgrades, and 1 new collection lead worker and 1 new pretreatment employee	
• Materials/Supplies	• \$ 133,150
• Increase in chemical costs \$114,000 due to implementation of Waste Activated Sludge System, City Building Supplies \$9,500, Parts \$7,000, and other increases \$2,650	
• Increase in Automotive Repair	• \$ 10,000
• Increased in Utility Costs	• \$ 22,850
• Decrease in Risk Management Charges	• \$ <132,389>
• Increase in Travel and Training	• \$ 8,100
• Increased in Administrative Service Fee	• \$ 20,000
• Decrease in Professional Services	• \$ <287,500>
• This budget proposes to purchase equipment and supplies and perform the large diameter pipe cleaning in house rather than contract out for services. Cost of Google Fiber \$200K install	
Increase in Payment in Lieu of Taxes	• \$ 99,000
Other Various Increases	• \$ <u>7,400</u>
• Total increases (1.5% increase in O&M)	• \$ 215,137

Major Budget Changes Stormwater

- **Salaries:** Cola 2% , Insurance 0%, Retirement 0%, and step upgrades • \$ 45,778
- **Increase Operation & Maint.:**
 - Chemical \$6,000, computer supplies \$2,650, Asphalt and sand and gravel \$4,000 • \$ 12,650
- **Increase in Travel & Training** • \$ 1,500
- **Other Professional Services**
 - Environmental Education (Tracy Aviary) for \$150,000, Google Fiber installation for \$100,000, Lift Station corrosion study \$25,000, Permit Requirements \$75,000 and Others \$40,750 • \$ 390,750
- **Other Increases** • \$ 3,450
- **Total increase (9% increase in O&M)** • \$ 454,128

Major Budget Changes Street Lighting

- **Salaries:** Cola 2% , Insurance 0%, Retirement 0%,
Assignment of lower paying positions • \$ 144
- Total increase • \$ 144

Proposed Studies for the Department 2015-16

Proposed Consulting Studies for 2015-2016	Cost Center	Water	Sewer	Stormwater	Street Lighting	Total	Administrator
Tracy Aviary – Education Program	5310700			150,000		150,000	Jesse Stewart
MS 4 Permit – Storm water quality	5310700			50,000		50,000	Jesse Stewart
TMDL - Storm water quality	5310700			25,000		25,000	Jesse Stewart
Stormwater Lift Station Corrosion Study	5310700			25,000		25,000	Chuck Call
Sewer Permit Discharge Study	5211200		100,000			100,000	Dale Christensen
Grant Match	5103500	20,000				20,000	Laura Briefer
Admin Bldg Upgrade Predesign-Design (HVAC, plumbing, capacity, LEEDS)	5103200	50,000	50,000	20,000		120,000	Tom Ward
Wire to Water Efficiency Study	5103200	100,000	5,000	5,000		110,000	Tom Ward
Water Data Management System	5103200	100,000				100,000	Laura Briefer
SharePoint Implementation Program	5103200	50,000	25,000	25,000		100,000	Nick Kryger
Water & Sewer Impact Fee	5103200	25,000	15,000	10,000		50,000	Kurt Spjute
Construction Out Reach - Public Engagement	5103200	15,000	10,000	5,000		30,000	Tom Ward
Collection Design Guidance Development	5103200		20,000			20,000	Tom Ward
Water Process Optimization	5101800	60,000				60,000	Jesse Stewart
Wasatch Legacy Project - Forest Service (Silver Lake)	5100600	40,000				40,000	Laura Briefer
Utah Conservation Corps Crew - Weed Work	5100600	9,000				9,000	Laura Briefer
Well Evaluation	5100300	100,000				100,000	Mark Stanley
Mountain Accord	5100200	150,000				150,000	Laura Briefer
Secondary Water Supply	5100200	100,000				100,000	Laura Briefer
Irrigation Canal Assessment	5100100	50,000				50,000	Mark Stanley
Irrigation Canal Inspection	5100100			5,000		5,000	Mark Stanley
Totals		\$23869,000	225,000	\$320,000	\$ 0	\$ 1,414,000	

Salt Lake City Public Utilities

Google Fiber Costs:

GIS Blue Stake Locators:		Salary	Benefits		
		Annual	Annual	Total Annual	Monthly Costs
Employee 1		\$ 48,986.67	\$ 19,880.00	\$ 68,866.67	\$ 5,738.89
Employee 2		48,980.00	19,880.00	68,860.00	5,738.33
Inspectors					
Employee 1		57,920.00	25,556.00	83,476.00	6,956.33
Employee 2		60,768.00	28,988.00	89,756.00	7,479.67
Engineer III					
Employee 1		\$ 63,536.00	\$ 20,620.00	\$ 84,156.00	\$ 7,013.00
Totals				\$ 395,114.67	\$ 32,926.22
		Unit Cost	Units		
IPADs 64 Gig		\$ 650.00		5 \$ 3,250.00	271.00
Annual Maintenance Costs			240	5 1,200.00	100
Equipment Costs				\$ 4,450.00	371.00
Vehicles					
Class 2 Vehicles		GMC/Ford f250			
4 vehicles			16.70 per hr	138,944.00	11,578.67
Cost of Google to Assist Fiber installation for the Department				\$ 538,508.67	\$ 44,875.89

Comparison of Proposed Monthly City Service Fee Options

City				
Meter Size	Existing ^(a, b)	Option A	Option B	PUAC Recommended Option C
<i>inches</i>		4% or \$0.37	8% or \$0.73	0%
¾ & 1	\$9.14	\$9.51	\$9.87	\$9.14
1 ½	10.80	11.23	11.66	10.80
2	11.72	12.19	12.66	11.72
3	19.67	20.46	21.24	19.67
4	21.06	21.90	22.74	21.06
6	30.40	31.62	32.83	30.40
8	54.65	56.84	59.02	54.65
10	101.36	105.41	109.47	101.36
<p><i>(a) Includes water purchases fee</i> <i>(b) Base fee by meter size varies based on meter replacement cost ratios to a ¾" meter</i></p>				

Comparison of Proposed Monthly County Service Fee Options

County				
Meter Size	Existing ^(a, b)	Option A	Option B	PUAC Recommended Option C
<i>inches</i>		4% or \$0.48	8% or \$0.96	0%
$\frac{3}{4}$ & 1	\$12.06	\$12.54	\$13.02	\$12.06
1 $\frac{1}{2}$	14.18	14.75	15.31	14.18
2	15.43	16.05	16.66	15.43
3	26.17	27.22	28.26	26.17
4	28.04	29.16	30.28	28.04
6	40.65	42.28	43.90	40.65
8	72.41	76.31	79.28	72.41
10	136.45	141.91	147.37	136.45

(a) Includes water purchases fee

(b) Base fee by meter size varies based on meter replacement cost ratios to a $\frac{3}{4}$ " meter

Comparison of Existing and Proposed Rate Options - City

City				
Description	Current ^(a,b)	Option A	Option B	PUAC Recommended Option C
<i>Winter Period</i>				
Nov. – March	\$1.08	\$1.13	\$1.12	\$1.16
<i>Summer Period</i>				
<i>April – October</i>				
Block 1 – 1 - 10 ccf	\$1.08	\$1.13	\$1.12	\$1.16
Block 2 11 – 30 ccf	1.61	\$1.67	\$1.66	\$1.66
Block 3 31 - 70 ccf	2.23	\$2.32	\$2.31	\$2.31
Block 4 > 71 ccf	2.34	\$2.44	\$2.42	\$2.43
(a) County rates are 1.35 times City (b) Single family residential tier 1: 0 to 10 ccf Duplex tier 1: 0 to 13 ccf Triplex tier 1: 0 to 16 ccf				

Comparison of Existing and Proposed Rate Options - County

County				
Description	Current ^(a,b)	Option A	Option B	PUAC Recommended Option C
<i>Winter Period</i>				
Nov. – March	\$1.46	\$1.53	\$1.51	\$1.57
<i>Summer Period</i>				
<i>April – October</i>				
Block 1 – 1 - 10 ccf	\$1.46	\$1.53	\$1.51	\$1.57
Block 2 11 – 30 ccf	\$2.16	\$2.26	\$2.24	2.24
Block 3 31 - 70 ccf	\$3.10	\$3.13	\$3.12	3.12
Block 4 > 71 ccf	\$3.15	\$3.29	\$3.27	3.28

(a) County rates are 1.35 times City (b) Single family residential tier 1: 0 to 10 ccf Duplex tier 1: 0 to 13 ccf
Triplex tier 1: 0 to 16 ccf

Water Rate Increase

Annual Impact on City Selected Customers

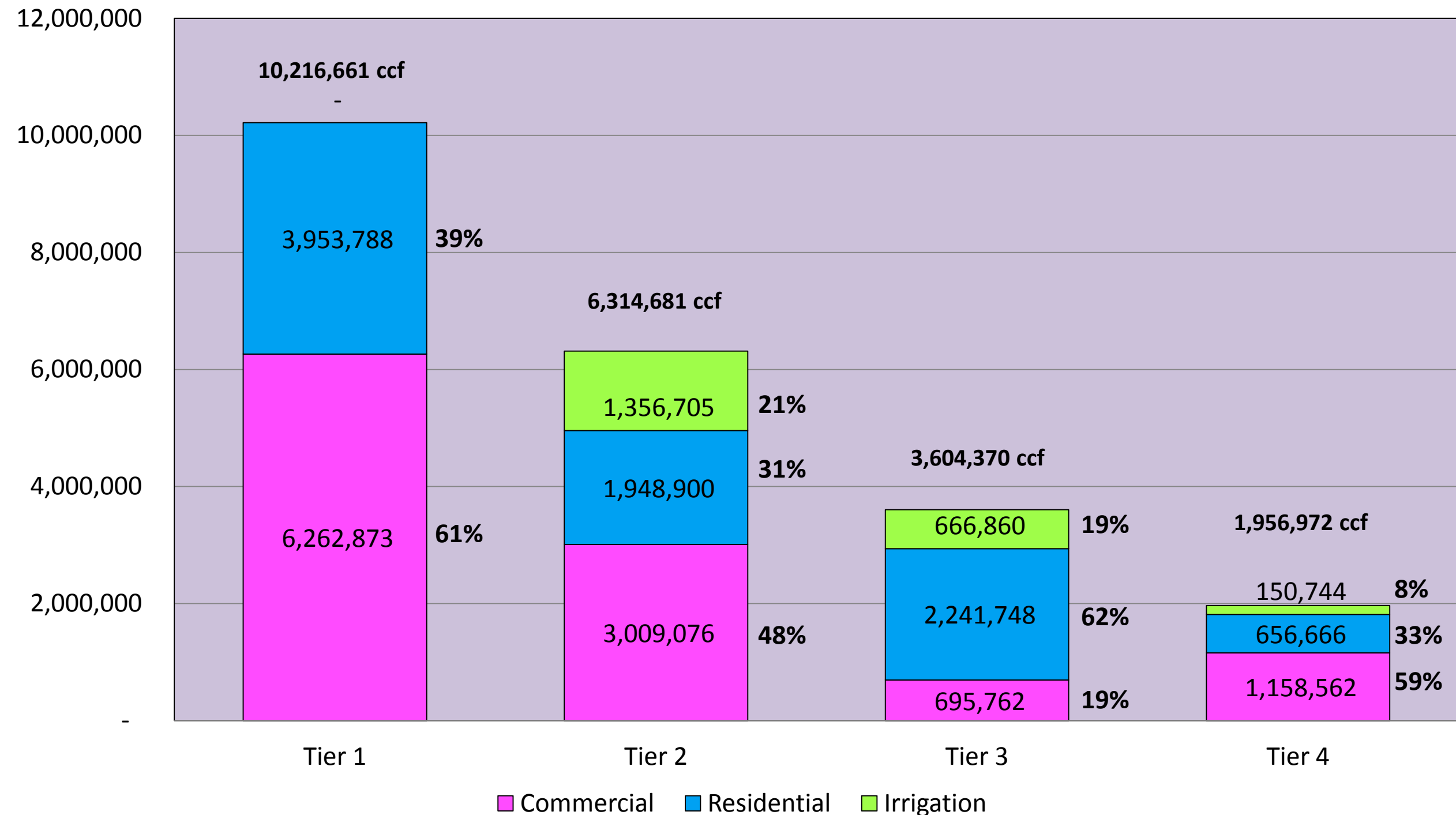
ACCOUNT TYPE	Current Rates ANNUAL CHARGES	Proposed 4% RATE INCREASE Option A	Proposed 4% RATE INCREASE Option B	Proposed 4% RATE INCREASE No increase in Service Fee PUAC Option C
SMALL RESIDENTIAL	\$ 213.36 96 ccf	\$ 222.60 4.3%	\$ 225.96 5.9%	\$221.04 3.6%
AVERAGE RESIDENTIAL	\$481.08 255 ccf	\$ 500.85 4.1%	\$ 502.62 4.5%	\$ 498.78 3.7%
LARGE RESIDENTIAL	\$ 1,804.88 838 ccf	\$ 1,879.99 4.2%	\$ 1,872.18 3.7%	\$ 1,872.01 3.7%
INDUSTRIAL	\$ 119,195.99 96.476 ccf	\$123,698.31 3.8%	\$122,860.14 3.1%	\$ 125,101.36 5.0%
Commercial	\$ 13,323.26 11,597 ccf	\$ 13,921.17 4.5%	\$ 13,810.84 3.7%	\$ 14,213.79 6.7%
LARGE IRRIGATION ACCOUNT	\$ 204,463.49 126,945 ccf	\$ 212,083.48 3.7%	\$ 210,817.32 3.1%	\$ 210,810.74 3.1%

Water Rate Increase

Annual Impact on County Selected Customers

ACCOUNT TYPE	Current Rates ANNUAL CHARGES	Proposed 4% RATE INCREASE Option A	Proposed 4% RATE INCREASE Option B	Proposed 4% RATE INCREASE No increase in Service Fee PUAC Option C
SMALL RESIDENTIAL	\$ 285.11 96 ccf	\$ 296.28 3.9%	\$ 300.17 5.3%	\$ 294.65 3.3%
AVERAGE RESIDENTIAL	\$648.90 255 ccf	\$ 672.98 3.7%	\$ 674.61 4.0%	\$ 669.98 3.2%
LARGE RESIDENTIAL	\$ 2,448.15 838 ccf	\$ 2,533.40 3.5%	\$ 2,524.88 3.1%	\$ 2,523.89 3.1%
INDUSTRIAL	\$ 165,482.02 96.476 ccf	\$173,013.27 4.6%	\$171,368.09 3.6%	\$ 174,800.63 5.6%
Commercial	\$17,985.66 11,597 ccf	\$ 18,795.52 4.5%	\$ 18,617.50 3.5%	\$ 19,182.66 6.7 %
LARGE IRRIGATION ACCOUNT	\$ 274,283.24 126,945 ccf	\$ 286,981.03 4.6%	\$ 284,445.42 3.7%	\$ 284,438.84 3.7%

Salt Lake City Public Utilities Rate Tier Consumption Comparison



Public Utilities Department
Local Area Water Rate comparison - November 2014
(Highest to Lowest Ranking)

RANKING	CITY OR DISTRICT NAME	MONTHLY MINIMUM CHARGE	MINIMUM ALLOWANCE IN GALLONS	RATE OVER MINIMUM ALLOWANCE	PER GALLONS	MONTHLY FLOURIDE CHARGE	WINTER @ 7,480 GAL PER MONTH	SUMMER @ 23,936 GAL PER MONTH	TOTAL WINTER CHARGES*	TOTAL SUMMER CHARGES*	YEARLY TAX ON \$200,000 PROPERTY	TOTAL CHARGES
1	PARK CITY - GRADUATED RATES (1)	44.07	0	5.49 - 8.80	1,000		101.82	238.16	712.71	1190.78		1903.49
2	MAGNA - GRADUATED RATES (2)	14.88	6,000	1.42 - 1.59	1,000	0.83	17.81	42.19	142.49	168.75	430.72	741.96
3	SOUTH JORDAN CITY - GRADUATED RATES (3)	34.88	0	1.64 - 1.84	1,000		47.15	76.92	377.18	307.69		684.87
4	DRAPER CITY - GRADUATED RATES(4)	20.25	0	1.96 - 3.54	1,000		38.23	93.48	305.87	373.93		679.81
5	KEARNS IMPROVEMENT DIST-GRADUATED RATES (5)	11.10	0	2.20 - 2.77	1,000		27.56	71.70	220.45	286.81	125.12	632.38
6	SANDY CITY - OUTSIDE OF CITY	29.54	6,000	1.57 - 2.63	1,000		31.86	76.71	223.05	383.56		606.60
7	OGDEN CITY - GRADUATED RATES (6)	19.65	0	1.69 - 2.58	1,000		33.61	76.06	268.87	304.26		573.13
	SALT LAKE CITY – OUTSIDE OF CITY - PROPOSED	12.06	0	1.57-3.28	1,000		27.76	87.60	222.08	350.40		572.48
8	SANDY CITY - INSIDE OF CITY (10)	20.40	6,000	1.43 - 2.42	1,000		22.52	63.81	157.61	319.03	84.00	560.64
9	SALT LAKE CITY - OUTSIDE OF CITY	12.06	0	1.46 - 3.01	748		26.66	75.88	213.28	303.52		516.80
10	AMERICAN FORK (7)	20.50	6,000	2.00 - 3.31	1,000		23.46	75.01	187.68	300.03		487.71
	SALT LAKE CITY – INSIDE OF CITY - PROPOSED (10)	9.14	0	1.16-2.43	1,000		20.74	65.06	165.92	260.24	78.20	504.35
11	PLEASANT GROVE - GRADUATED RATES (8)	15.60	5,000	2.08 - 4.34	1,000		20.76	79.98	166.07	319.93		486.00
12	CITY OF SOUTH SALT LAKE	19.00	5,000	2.25	1,000	2.00	26.58	63.61	212.64	254.42		467.06
13	SALT LAKE CITY - INSIDE OF CITY (10)	9.14	0	1.08 - 2.23	748		19.94	56.60	159.52	226.40	78.20	464.12
14	WEST JORDAN CITY (9)	23.11	0	1.04 - 1.50	1,000		30.99	52.67	247.96	210.70		458.65
15	GRANGER - HUNTER IMPROVEMENT DISTRICT	12.00	0	1.45	1,000		22.85	46.71	182.77	186.83	69.20	438.80
16	JVWCD	2.50	0	1.49 - 1.86	1,000		13.65	47.02	109.16	188.08	79.80	377.05
17	BOUNTIFUL CITY - RESIDENTIAL HIGH ELEVATION	16.25	5,000	1.65	1,000		20.34	47.49	162.74	189.98		352.71
18	RIVERTON CITY	21.32	10,000	1.33	1,000		21.32	39.85	170.56	159.42		329.98
19	TAYLORSVILLE/BENNION IMPROVEMENT DISTRICT	5.00	0	1.62	1,000		17.12	43.78	136.94	175.11	16.40	328.45
20	MURRAY CITY	7.21	0	0.89 - 1.28	748		16.11	48.17	128.88	192.68		321.56
21	BOUNTIFUL CITY - RESIDENTIAL LOW ELEVATION	14.75	5,000	1.49	1,000		18.45	42.96	147.56	171.86		319.42
22	PROVO	10.59	0	0.60 - 1.00	1,000		15.08	34.53	120.62	138.10		258.73
23	OREM	12.66	0	0.58	1,000		17.00	26.54	135.99	106.17		242.16

* BASED ON EIGHT MONTHS WINTER AND FOUR MONTHS SUMMER EXCEPT PARK CITY & SANDY WHICH ARE SEVEN MONTHS WINTER AND FIVE MONTHS SUMMER

(1) RATES ARE \$5.49/THOUSAND FOR 0-5,000 GALLONS, \$8.80/THOUSAND FOR 5,001-30,000 GAL IN SUMMER AND \$7.72/THOUSAND IN WINTER

(2) RATES ARE \$14.88 FOR 0-6,000 GALLONS, \$1.42/THOUSAND FOR 6,001-18,000 GALLONS, & \$1.59/THOUSAND FOR 18,001-35,000 GALLONS

(3) RATES ARE \$1.64/THOUSAND FOR 0-10,000 GALLONS AND \$1.84/THOUSAND FOR 10,001-28,000 GAL

(4) RATES ARE \$1.96/THOUSAND FOR 0-5,000 GALLONS, \$3.30/THOUSAND FOR 5,001-20,000 GAL, & \$3.54/THOUSAND FOR 20,001-50,000 GAL.

(5) RATES ARE \$2.20/THOUSAND FOR 0-10,000 GALLONS & \$2.77/THOUSAND FOR 10,001-25,000 GALLONS

(6) RATES ARE \$1.69/THOUSAND FOR 0-6,000 GALLONS & \$2.58/THOUSAND FOR 6,001-42,000 GAL.

(7) RATES ARE \$20.50 FOR 0-6,000 GALLONS, \$2.00/THOUSAND FOR 6,001-8,000 GAL, \$2.50/THOUSAND FOR 8,001-10,000 GAL, \$3.00/THOUSAND FOR 10,001-12,000 GAL & \$3.31/THOUSAND OVER 12,000 GAL

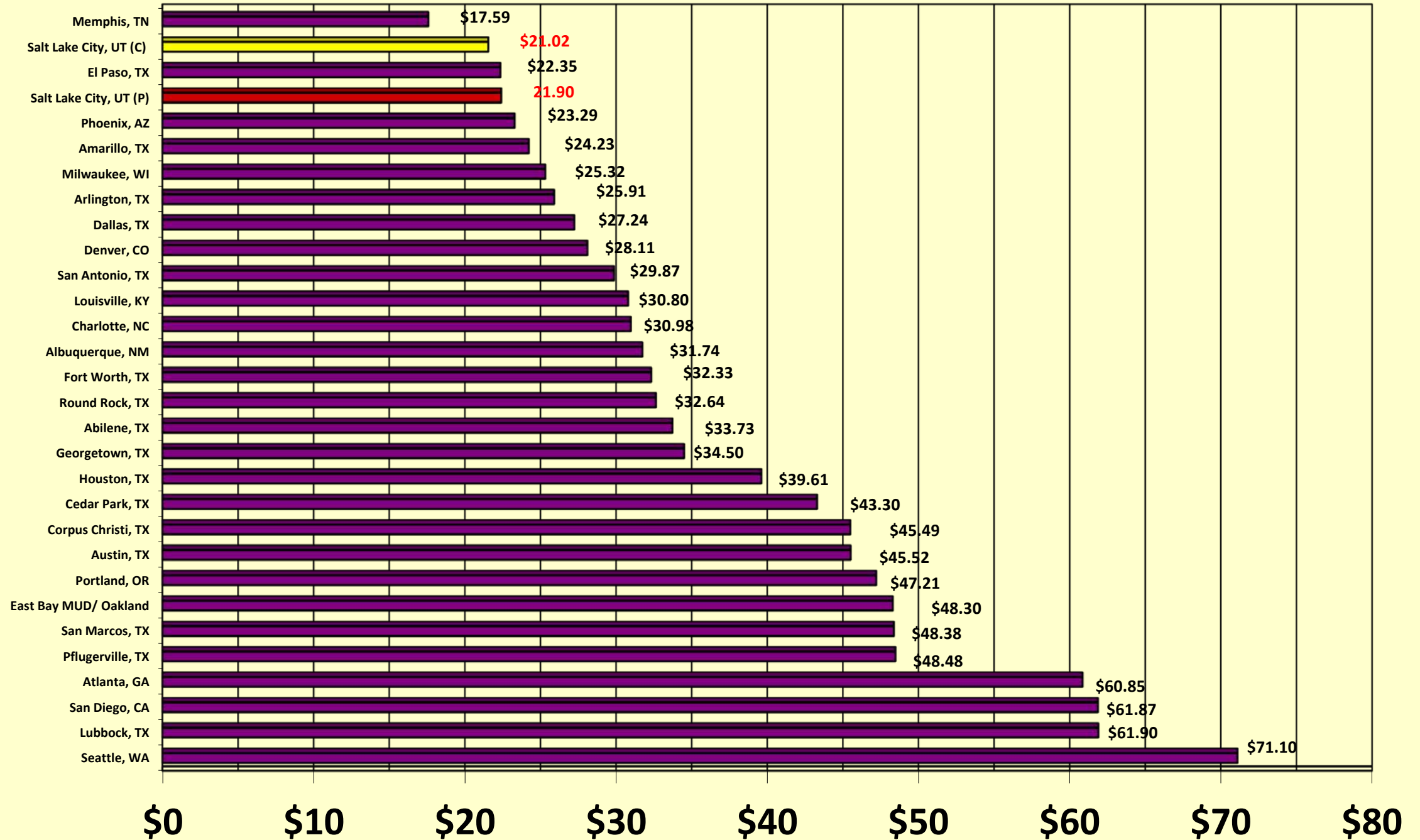
(8) RATES ARE \$15.60 FOR 0-5,000 GALLONS, \$2.08/THOUSAND FOR 5,001-10,000 GALLONS, \$3.04/THOUSAND FOR 10,001-15,000 GALLONS, & \$4.34/THOUSAND FOR 15,001-50,000 GALLONS

(9) RATES ARE \$1.04/THOUSAND FOR 0-7,000 GALLONS, \$1.26/THOUSAND FOR 7,001-20,000 GAL & \$1.50/THOUSAND FOR 20,001-50,000 GAL

(10) INCULDES METROPOLITAN WATER PROPERTY TAX

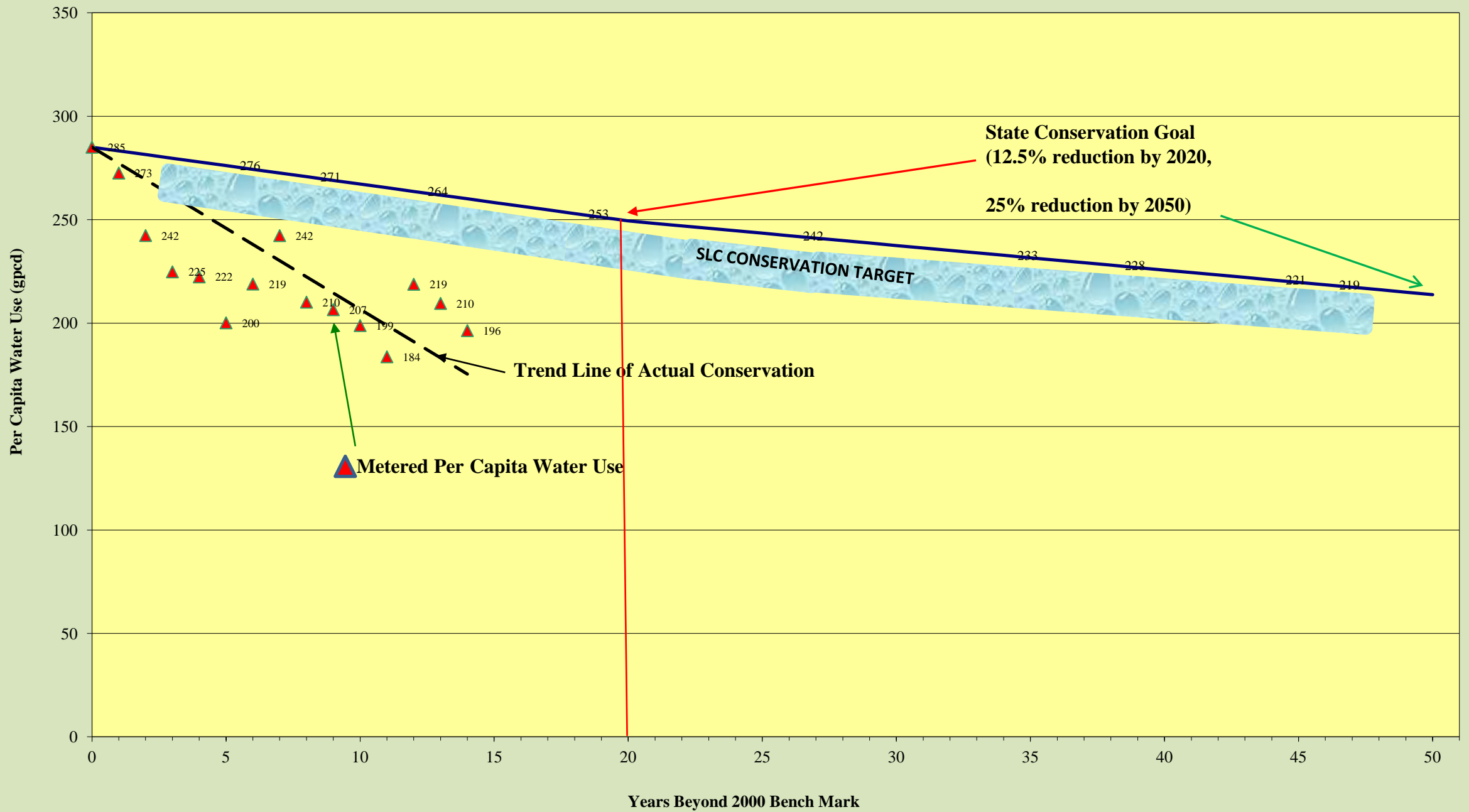
AVERAGE MONTHLY BILL COMPARISON-WATER RESIDENTIAL CLASS

SLC Rates Current – Other City as of Feb 2014 (Average of 8,000 gallons a month)



Salt Lake City Conservation Trend

Documentation of Conservation Performance



Sewer Rate Increase

Annual Impact on City Selected Customers

ACCOUNT TYPE	Average Winter Water Usage (CCF)	CURRENT RATES \$1.65 ccf	Proposed 8% RATE NCREASE \$1.78 ccf	Difference \$0.13 ccf
SMALL RESIDENTIAL	4	\$79.20	\$84.44	\$6.24 8% increase
AVERAGE RESIDENTIAL	8	\$158.40	\$170.88	\$12.48 8% increase
Dairy 7,6	Based on BOD and TSS	\$239,224	\$258,362	\$19,138 8% increase
Industrial 2,4	Based on BOD and TSS	\$67,310	\$72,695	\$5,385 8% increase
Commercial 2,1	Based on BOD and TSS	\$788.30	\$851.36	\$63.06 8% increase
LARGE RESIDENTIAL	15	\$297.00	\$320.40	\$23.40 8% increase

LOCAL SEWER RATE COMPARISONS

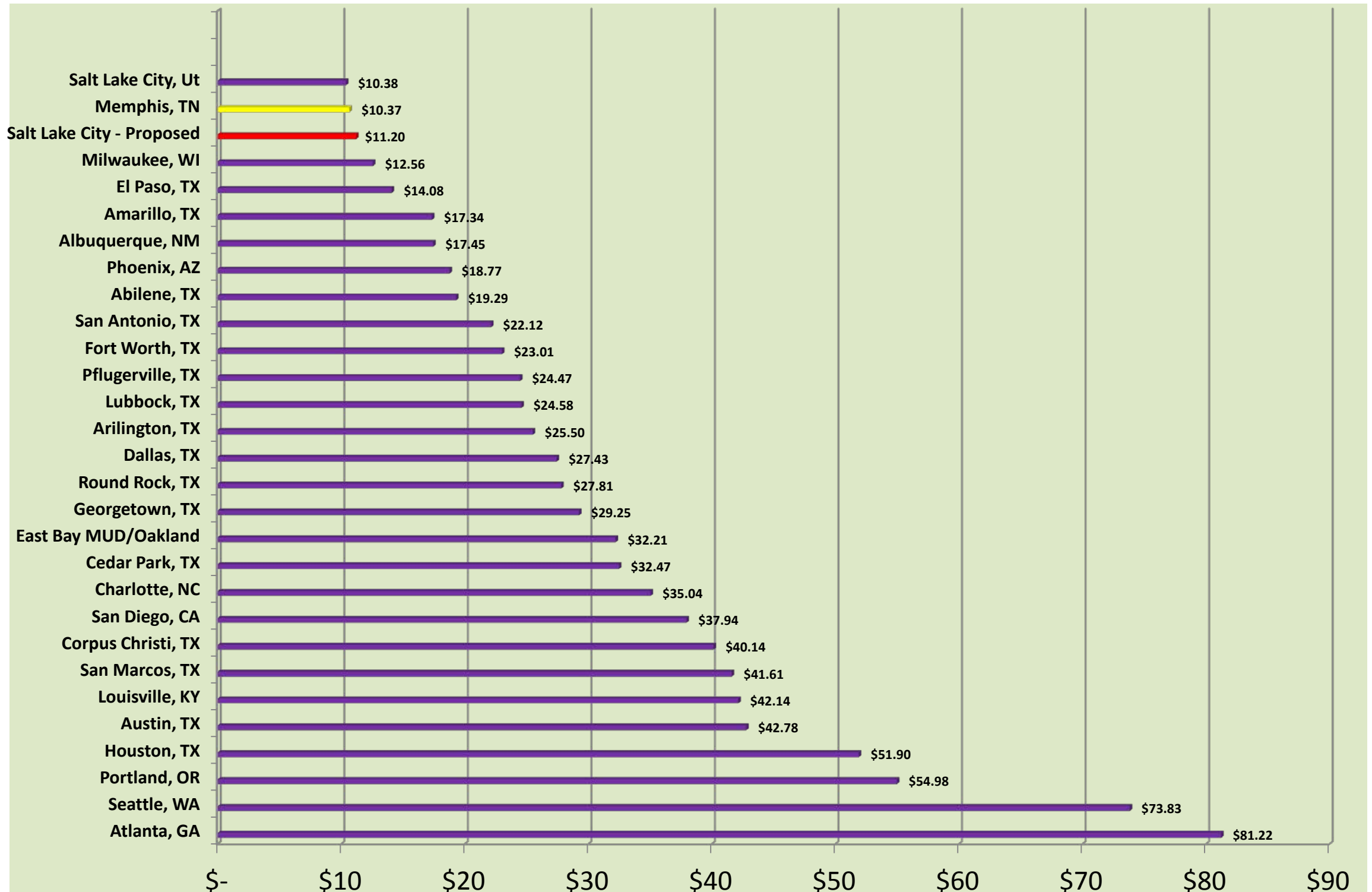
		ANNUAL
RANKING	CITY OR DISTRICT NAME	CHARGE *
1	SOUTH DAVIS SEWER DISTRICT	\$120.20
2	SALT LAKE CITY (CURRENT)	158.40
3	MT OLYMPUS IMPROVEMENT DISTRICT	167.20
4	SALT LAKE CITY (PROPOSED 8%)	170.88
5	TAYLORSVILLE-BENNION IMPROVEMENT DISTRICT **	192.73
6	COTTONWOOD IMPROVEMENT DISTRICT	201.20
7	CITY OF SOUTH SALT LAKE	236.97
8	WEST JORDAN CITY **	273.34
9	GRANGER - HUNTER IMPROVEMENT DISTRICT	285.20
10	MIDVALLEY IMPROVEMENT DISTRICT	300.80
11	MURRAY CITY **	308.30
12	OGDEN CITY	342.96
13	KEARNS IMPROVEMENT DISTRICT **	366.00
14	SANDY SUBURBAN IMPROVEMENT DISTRICT	369.48
15	SOUTH VALLEY IMPROVEMENT DISTRICT	374.20

* Annual cost based on 12 months @5,984 gallons per month average winter consumption. Flat rate based on monthly rate multiplied by 12. Total annual includes Property Levy's based on \$200 k charged to 10 of the 15 cities.

** Includes monthly base rate`

Average Monthly Bill Comparison – Wastewater Residential

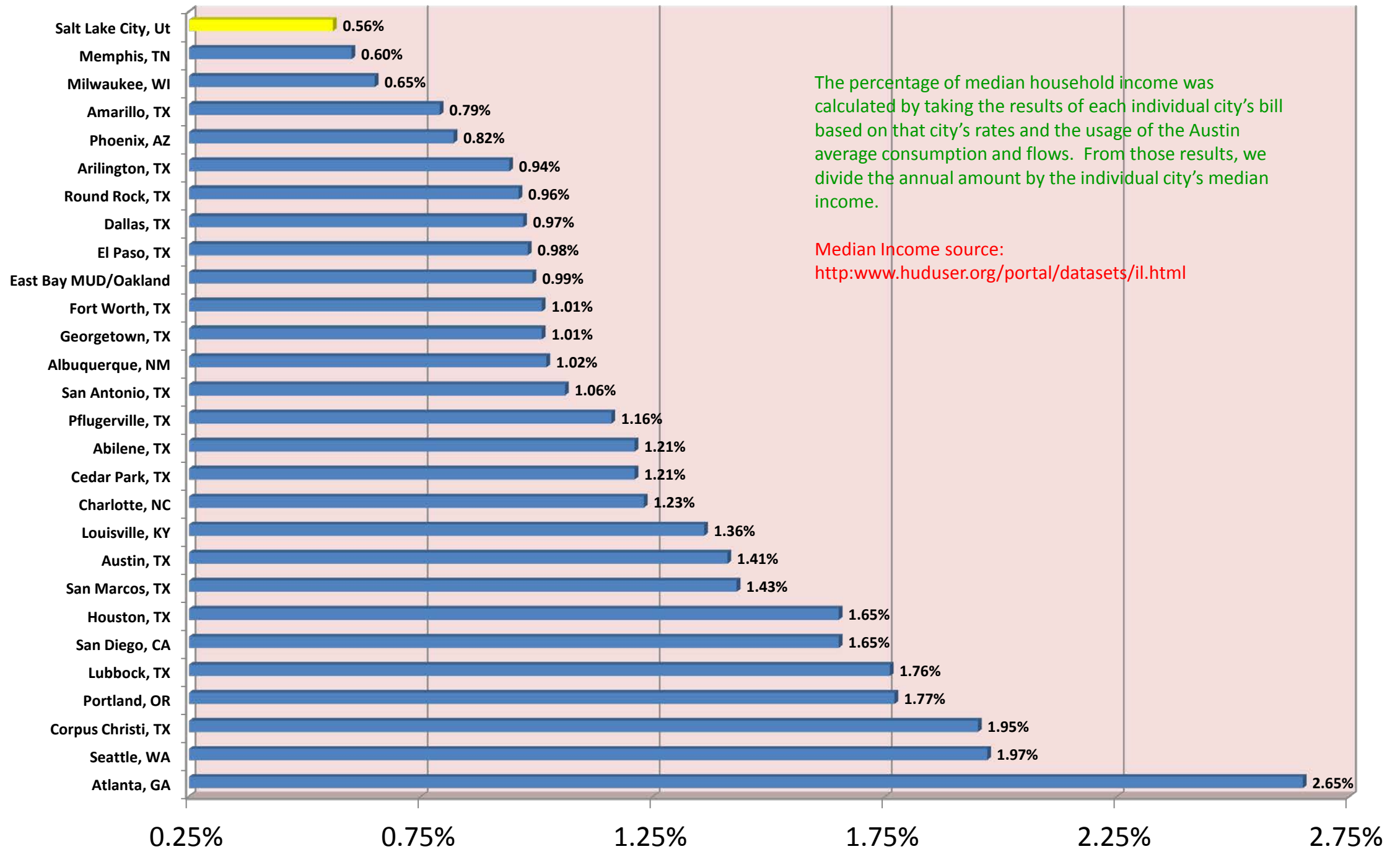
SLC Rates Current – Other City as of Feb 2014 (Average of 4,700 gallons a month)



Residential Water & Wastewater Bill

Percent of Median Household Income

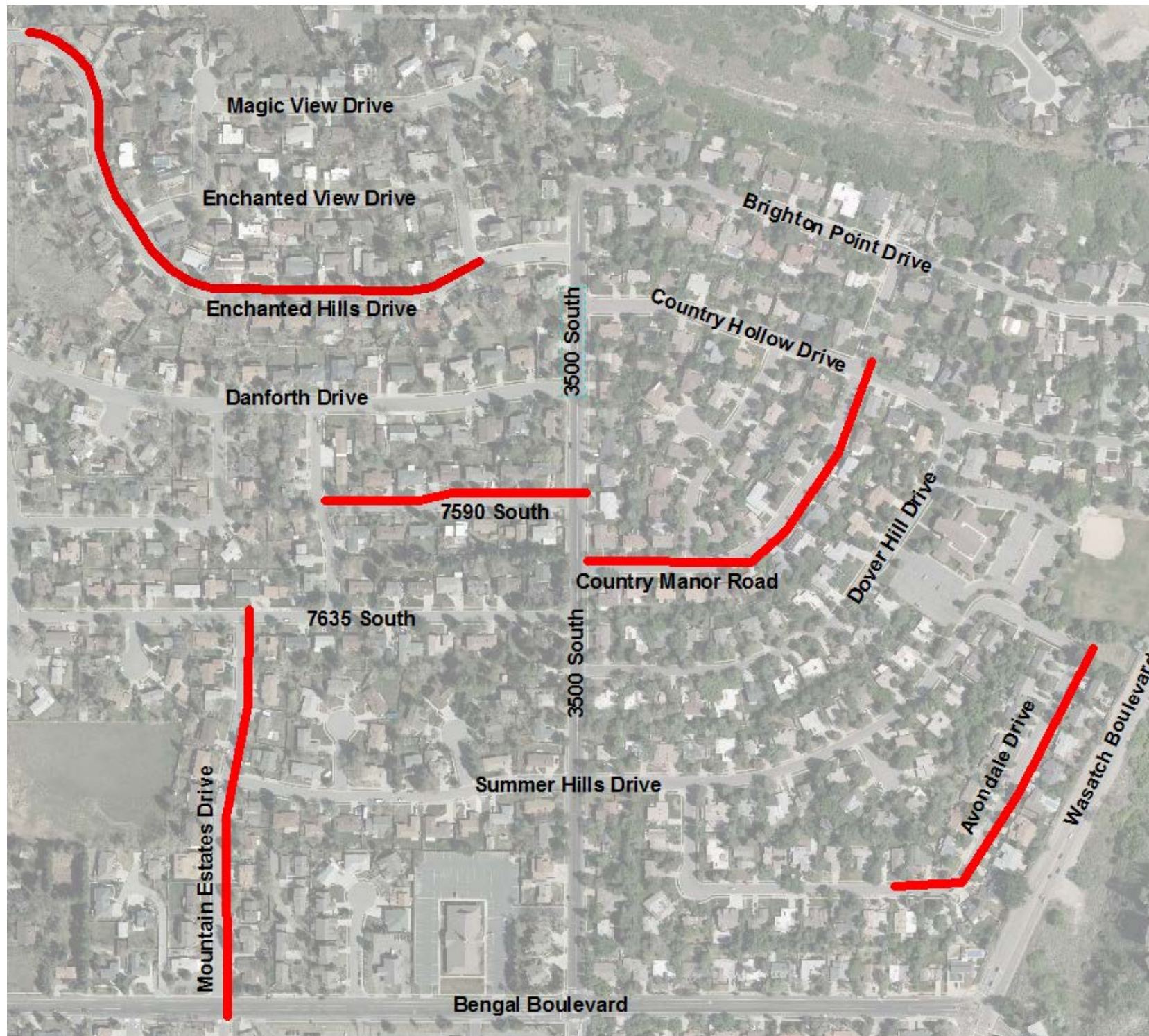
(Austin Average Consumption & Flows)



CAPITAL IMPROVEMENT HIGHLIGHTS

- 1. Water Line Replacement Projects \$5.8 million**
- 2. Sewer Line Replacement Projects \$4.4 million**
- 3. Upgrade of Pressure reduction Valve to include electrical generation turbines at 500 South and 1000 East – \$1,000,000**
- 4. Upgrade to Water Treatment Plants - \$800,000**
- 5. Reclamation Plant Upgrade Emergency Generators at the Pump Station \$1.9 million**
- 6. Sewer line replacement on Orange Street Phase III \$3.3 million**
- 7. Pre-design of the Nutrient Treatment Options \$800,000**
- 8. Pre-design of the Influent Pump Station \$500,000**
- 9. Oil Drain EPA Remediation Canal – Phase V**
\$4.6 million budget for next year with \$3 million reimbursed by local oil companies, which involves removal of contaminated soil.
- 10. Storm drain Riparian Corridor Projects – \$235,000**
- 11. Street Lighting Efficiency Projects - \$950,000**

Water Main Replacement Projects 2015-16 for \$2.25 million



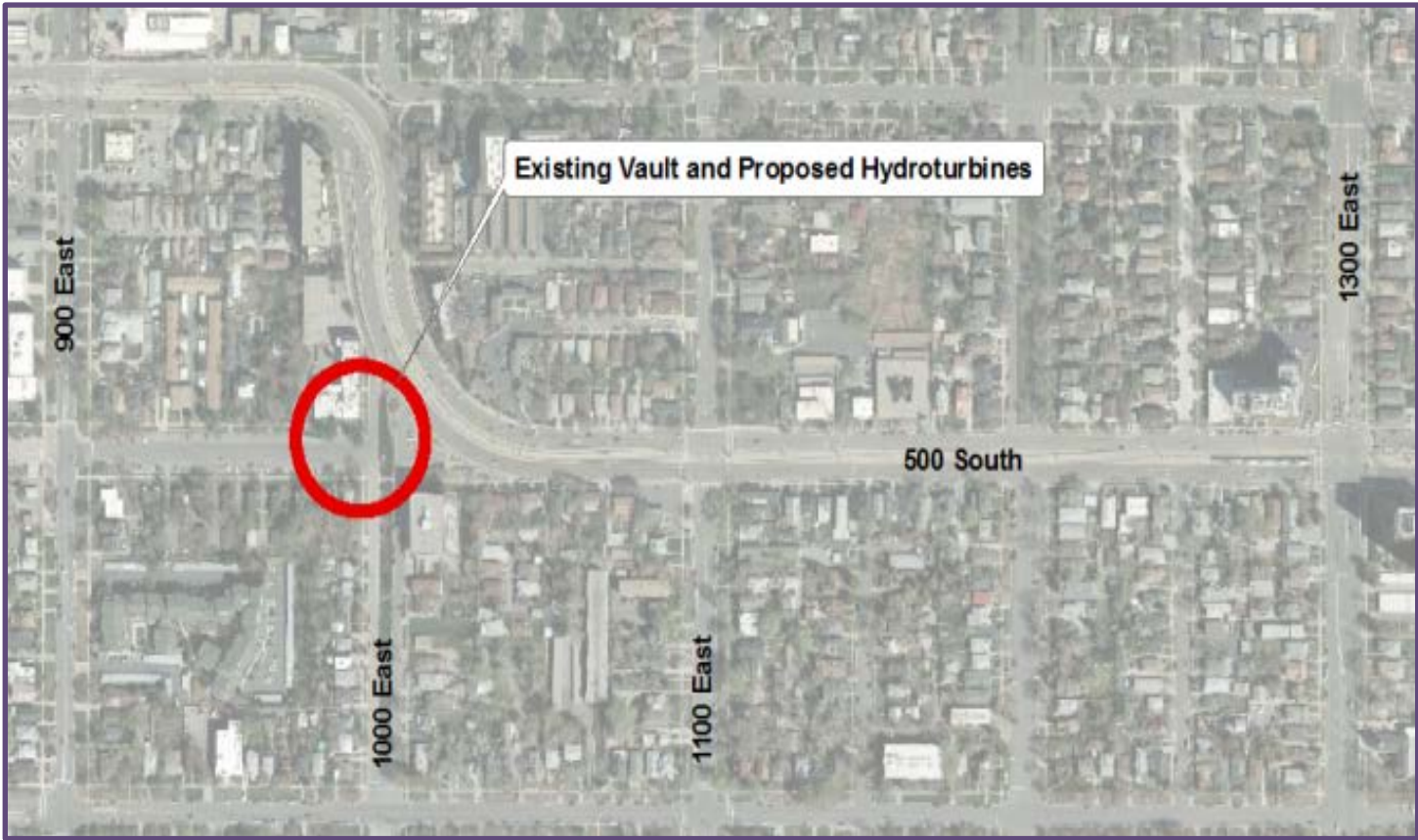
The Water Utility plans on upgrading \$2.25 million in water lines with a major portion of these lines located in the Cottonwood Heights area as illustrated.

Water Main Replacement on 1700 South & New Power Generation Turbine



**1700 South –State St to 700 East
Water line for \$700k**

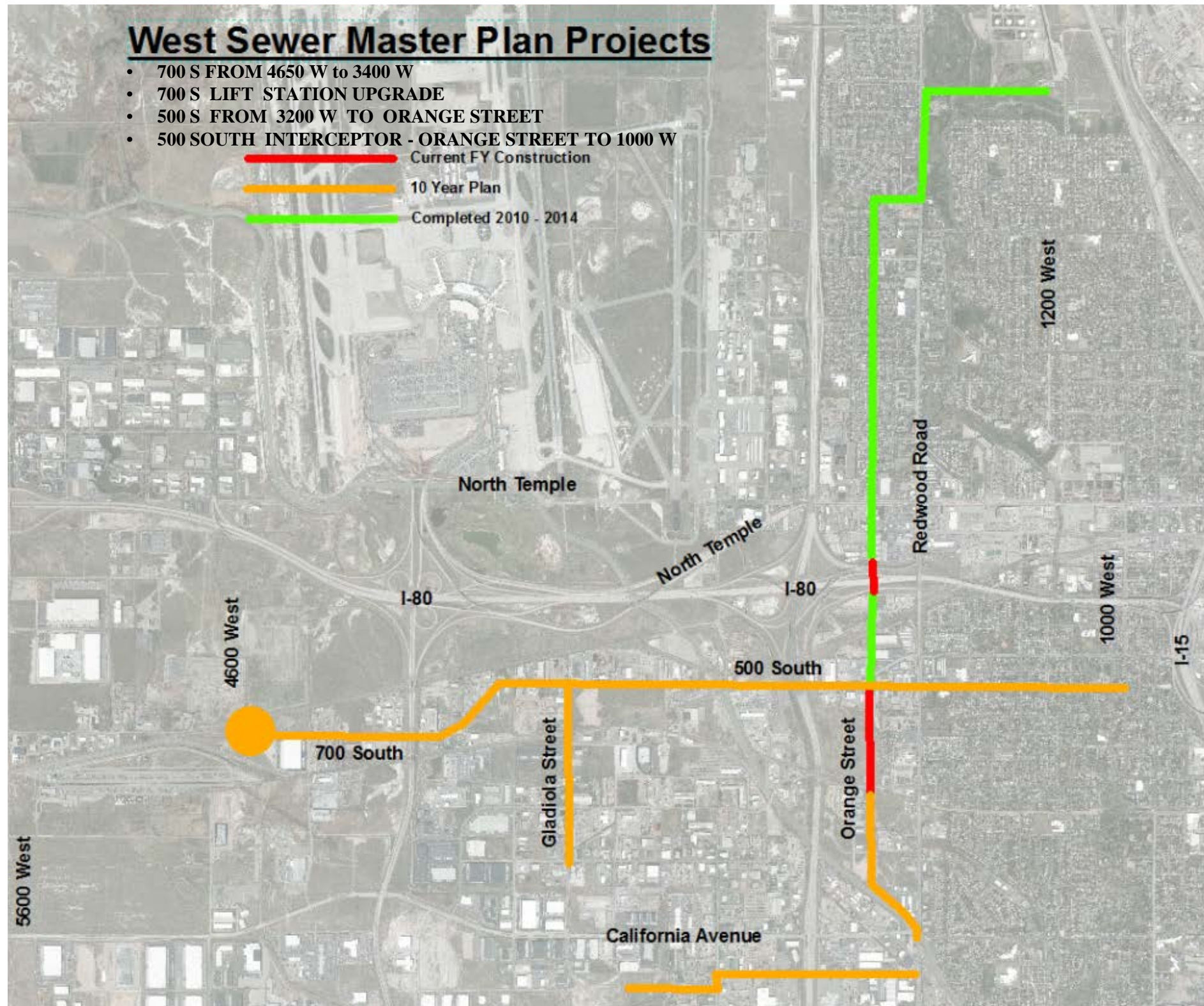
In conjunction with the City’s road construction project the current 6” main has had several breaks and is in poor condition. Coordination between Community & Economic Development should ensure minimal public disruption.



New Pressure Regulators and Potential Hydropower Micro-Turbine Vault near University of Utah

The vault and regulators at 5th South and 10th East control water flow and reduce pressure from the high elevation east bench canyons to the downtown pressure zone. We are including provisions for a hydroelectric power micro-turbine to harness renewable energy as water flows from high elevation to lower elevation.

Major Sewer Projects \$3.9 million



The 2010 Sewer Master Plan identified several projects to provide capacity and mitigate surcharging within the Orange Street Trunk Line that occurs during combined I&I wet weather (inflow) and wet year (high groundwater infiltration) events. These projects include the 500 South Diversion pipeline that will divert excess flow from the Orange Street sewer east to the City's 1200 West trunk sewer, which has excess capacity. Other budgeted Master Plan projects that are affected by west side development include the future 4600 W 700 S diversion, I&I characterization study, flow reduction program, and upgrades to lift stations within the collection area of the City. These projects are for growth on the west side as well as to ensure adequate system capacity for the airport.

Northwest Oil Drain Canal Remediation \$3 million Sewer - \$1.6 million Storm

The Northwest Oil Drain (NWOD) Canal is part of Salt Lake City's system of critical infrastructure, serving stormwater management purposes, as well as receiving treated wastewater from Salt Lake City's Water Reclamation Facility. The Canal was constructed in the late 1920's.

The NWOD Canal was impacted by historical discharges, resulting in petroleum hydrocarbon contamination of the canal. In 2003, the Federal EPA issued an Administrative Order on Consent, requiring Salt Lake City, British Petroleum (BP), Chevron, and Salt Lake County, to remove the contamination from five segments of the canal.



Salt Lake County was responsible for Segments 4 and 5, while Salt Lake City, BP, and Chevron were responsible for Segments 1, 2, and 3. A first attempt at canal remediation for Segments 1, 2, and 3 from 2004-2006 did not remove all of the contamination, as required by the EPA (this failure is also the subject of current litigation against previous contractors). The second remediation began in 2011.

Segments 1, 2, and a portion of Segment 3 were remediated to the satisfaction of the EPA from 2011-2014. The remainder of Segment 3 will be addressed summer and fall 2015, and is the subject of this year's proposed budget line item.

SEWER RECLAMATION PLANT NUTRIENT REGULATORY UPGRADE

Phosphorus Nutrient Phase 2015-2020

- a) Bio-Solids Mechanical Dewatering \$20.6 million
- b) Chemical Storage and Feed \$5.94 million
- c) Secondary Clarifier (Ras Pumps) \$10.2 million

Nitrogen Nutrient Phase II 2019-2023

- a) Aeration Basins \$117.8 million
- b) Blower Building \$15.8 million
- c) Phosphorus Recovery \$20.4 million

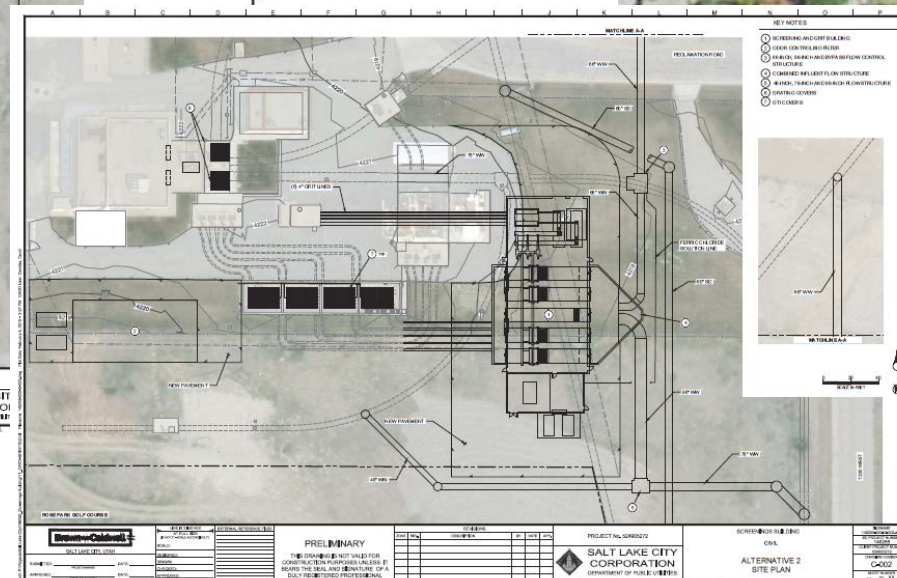
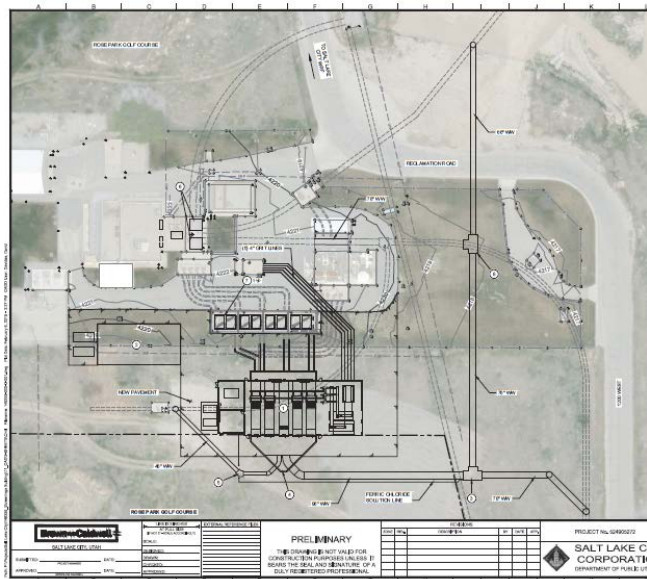
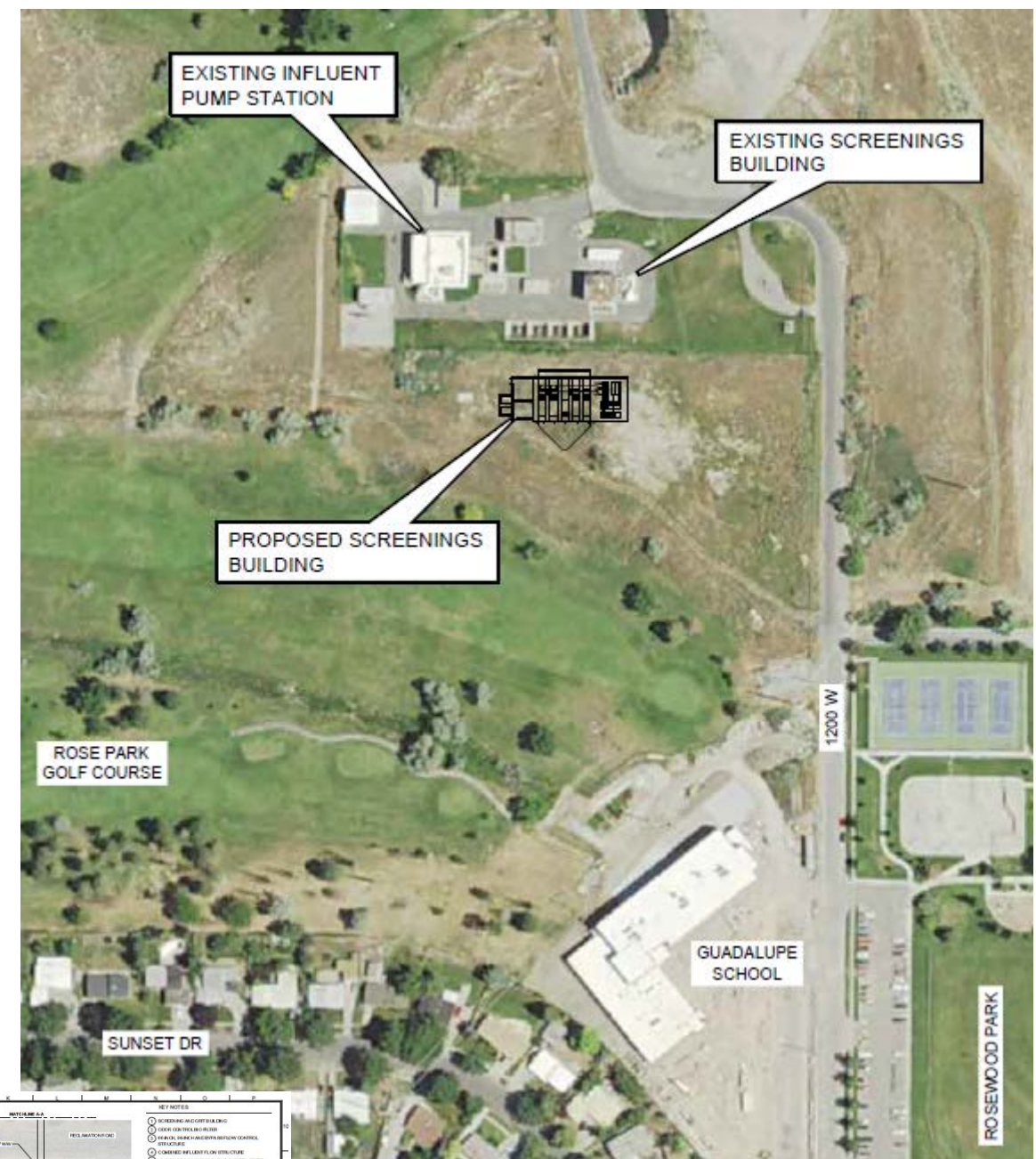
Nutrient Phase III 2025-2030

- a) Tertiary Filters \$111.2 million
- b) Demolition of Old Trickling Filters \$3.7 million



Water Reclamation Facility Existing Headwork Screens & Odor Control Rehabilitation Project - \$27 Million

- Replaces and improves existing 50 year old screening building and odor control at headworks that receives all sewage collected by the City.
- Existing facility must remain operational until new structure built south or east of existing facility.
- Next step is Public Outreach and Stakeholder input for final design in 2015. Construction 2016/17.
- A bond issue will help pay for the construction



Swede Town Storm Water Lift Station \$325k

Responding to recent neighborhood developments, this area requires a new station to pump excess water to another storm drain to avoid flooding potential when the existing 18 inch line capacity is reached.



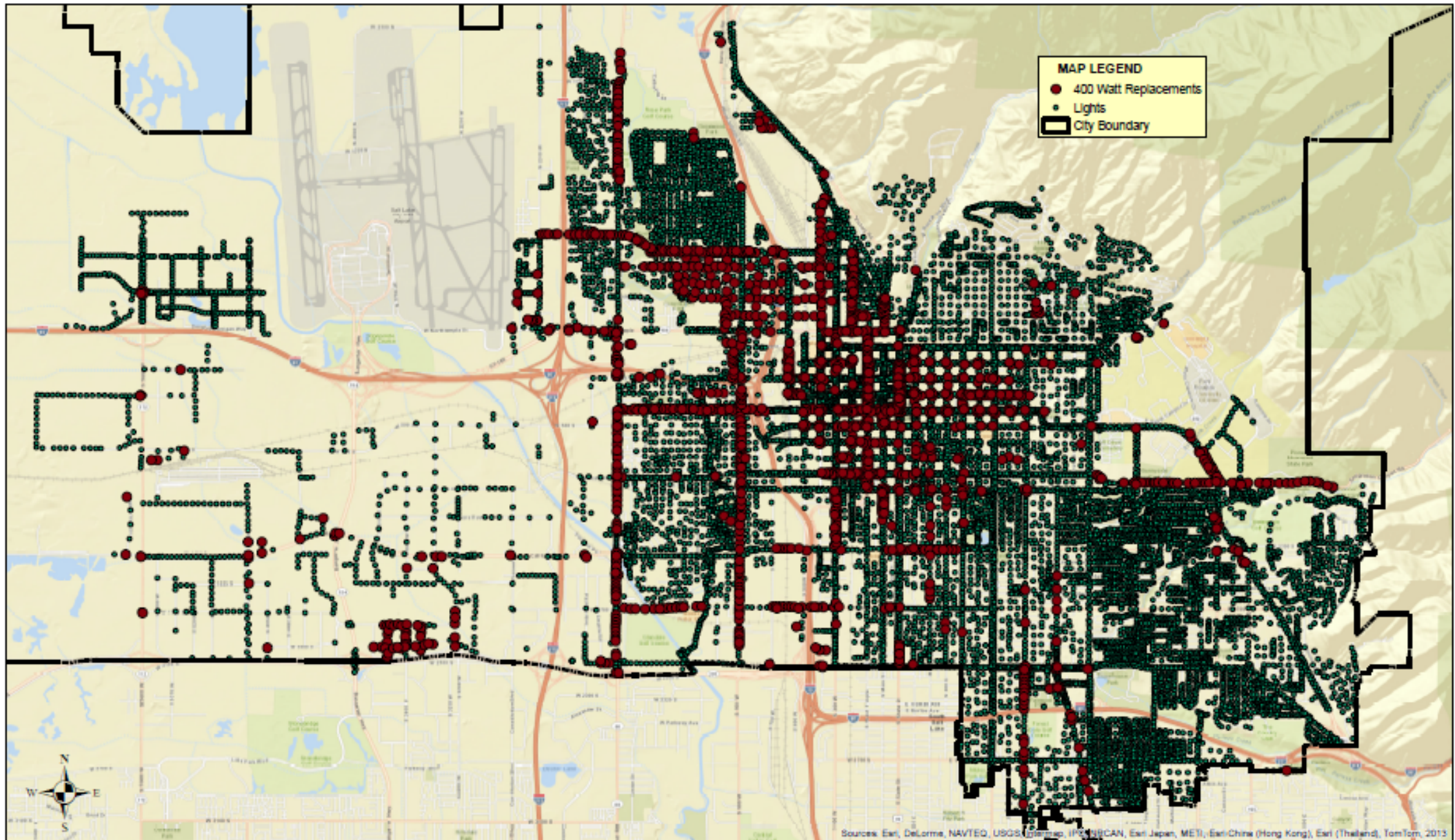
Riparian Corridor Storm Drain Projects



Various stream beds are listed for Riparian Corridor projects as planned for 2015. These include upper and lower Parley's Park and Wasatch Hollow Park for \$231,000.



Street Lighting Projects for next year will focus on replacing 400 watt bulbs with energy efficient upgrades that will continue to reduce the energy bills in our system. Red ● are locations for anticipated upgrades.



400 Watt Streetlight Replacements



**PUBLIC UTILITIES
FEES AND CHARGES PAID TO THE GENERAL FUND
FOR SERVICES RENDERED
OR COLLECTED BY CITY ORDINANCE**

DESCRIPTION OF SERVICES	June 30, 2014 ACTUALS WATER	June 30, 2014 ACTUALS SEWER	June 30, 2014 ACTUALS STORM	June 30, 2014 ACTUALS STREETLIGHT	ACTUAL Public Utilities June 30, 2014 TOTALS	FY 2014/2015 BUDGET	PROPOSED Fiscal Year 2015/2016 BUDGET
Administrative Service Fees (General Fund)							
Human Resources	\$ 213,412	\$ 108,668	\$ 46,311	\$ 1,820	\$ 370,211	\$ 373,900	\$ 422,000
City Attorney	203,671	41,595	4,590	861	250,717	229,200	285,800
Accounting/Finance	117,875	101,671	17,530	2,239	239,315	246,700	272,800
Purchasing & Contracts	65,198	50,539	4,509	1,767	122,013	154,200	139,100
City Recorders	35,381	4,283	4,941	922	45,527	55,900	51,900
Property Management	13,072	832	4,713	-	18,617	85,800	21,200
Budget and Policy	15,514	6,282	1,892	181	23,869	45,400	27,200
Non-discretionary IMS Costs	47,502	22,926	11,754	534	82,716	84,300	94,300
Treasurer's Office (cash mgt.)	12,683	5,410	2,041	-	20,134	29,200	22,900
City Council	14,551	2,619	2,328	1,746	21,244	14,900	24,200
Mayor	8,388	8,651	14,680	6,291	38,010	35,300	43,300
Community Affairs	1,560	920	1,520	680	4,680	5,200	5,300
Total Admin Fees	\$ 748,807	\$ 354,396	\$ 116,809	\$ 17,041	\$ 1,237,053	\$ 1,360,000	\$ 1,410,000
Tax or Fee Authorized							
Payment in Lieu-of-Taxes (General Fund)	\$ 519,963	\$ 318,549	\$ 215,946	\$ -	\$ 1,054,458	\$ 1,135,000	1,122,000
Franchise Fees (General Fund)	2,829,138	944,898	393,446	-	4,167,482	4,180,500	4,390,000
Sub Total	\$ 3,349,101	\$ 1,263,447	\$ 609,392	\$ -	\$ 5,221,940	\$ 5,315,500	\$ 5,512,000
Internal Service Fund Services							
Fleet Mgt. Services	\$ 1,152,012	\$ 373,538	\$ 196,818	\$ -	\$ 1,722,368	\$ 2,002,500	\$ 2,012,500
City Data Processing (IMS)	221,552	203,041	172,959	-	597,552	875,000	950,000
Telephone Charges	60,539	38,715	8,271	-	107,525	77,000	119,000
Risk Mgt. Administrative Fees (Gov. Immunity)	80,643	6,648	11,939	-	99,230	345,000	332,200
Risk Management Premiums & Charges	918,972	(51,647)	108,674	54,000	1,029,999	1,741,291	1,536,800
Sub Total	\$ 2,433,718	\$ 570,295	\$ 498,661	\$ 54,000	\$ 3,556,674	\$ 5,040,791	4,950,500
Special Associated Charges (indirect benefit)							
OneSolution Maintenance (network financial system)	\$ 41,416	\$ 32,111	\$ 2,029	\$ -	\$ 75,556	\$ 92,903	94,103
Street Sweeping	-	-	701,605	-	701,605	701,605	701,605
Neighborhood Clean-up	-	-	118,000	-	118,000	118,000	118,000
Emergency Management	-	-	-	-	-	30,000	30,000
Trails Coordinator	37,500	-	-	-	37,500	-	-
Sub Total	\$ 78,916	\$ 32,111	\$ 821,634	\$ -	\$ 932,661	\$ 942,508	\$ 943,708
TOTAL FEES, TAXES AND CHARGES	\$ 6,610,542	\$ 2,220,249	\$ 2,046,496	\$ 71,041	\$ 10,948,328	\$ 12,658,799	\$ 12,816,208

**WATER UTILITY
ENTERPRISE FUND
BUDGET SUMMARY
Fiscal Years 2016-18**

				Rate increase 4%	Rate increase 4%	Rate increase 4%
SOURCES	ACTUAL 2013-2014	AMENDED BUDGET 2014-15	PROJECTED ACTUAL 2014-15	PROPOSED BUDGET 2015-16	FORECAST BUDGET 2016-17	FORECAST BUDGET 2017-18
REVENUES						
METERED SALES	\$61,542,077	\$62,051,392	\$62,051,392	\$64,533,448	\$67,114,786	69,799,377
INTEREST INCOME	357,446	200,000	200,000	200,000	200,000	200,000
OTHER REVENUES	3,255,021	2,491,250	2,491,250	2,529,315	2,568,141	2,607,744
TOTAL REVENUES	\$65,154,544	\$64,742,642	\$64,742,642	\$67,262,763	\$69,882,927	72,607,121
OTHER SOURCES						
GRANTS & OTHER RELATED REVENUES	\$1,035,854	\$1,205,000	\$1,205,000	\$1,205,000	\$1,205,000	1,205,000
IMPACT FEES	1,054,559	500,000	500,000	500,000	500,000	500,000
OTHER SOURCES	639,336	50,000	50,000	50,000	50,000	50,000
BOND PROCEEDS	-	-	-	-	-	-
TOTAL OTHER SOURCES	\$2,729,749	\$1,755,000	\$1,755,000	\$1,755,000	\$1,755,000	1,755,000
TOTAL SOURCES	\$67,884,293	\$66,497,642	\$66,497,642	\$69,017,763	\$71,637,927	74,362,121
EXPENSES & OTHER USES						
EXPENDITURES						
PERSONNEL SERVICES	\$19,400,317	\$18,588,219	\$18,588,219	\$19,215,493	\$19,492,602	19,882,454
OPERATING & MAINTENANCE	3,345,352	3,586,435	3,586,435	3,665,710	3,718,624	3,792,979
TRAVEL & TRAINING	48,603	95,730	95,730	105,320	107,427	109,574
UTILITIES	2,370,185	2,359,951	2,359,951	2,392,451	2,440,299	2,489,101
PROF & CONTRACT SERVICES	2,426,445	3,622,800	3,622,800	3,793,850	3,563,727	3,322,880
DATA PROCESSING	221,552	500,000	500,000	575,000	586,500	598,230
FLEET MAINTENANCE	1,152,011	1,255,000	1,255,000	1,255,000	1,280,100	1,305,702
ADMINISTRATIVE SERVICE FEE	748,807	770,000	770,000	800,000	816,000	832,320
PAYMENT IN LIEU OF TAXES	519,963	600,000	600,000	488,000	497,760	507,715
METRO. WATER PURCH & TREAT	11,853,977	13,722,620	13,722,620	15,232,108	16,755,319	17,928,191
METRO ASSESSMENT (CAPITAL)	7,021,892	7,021,892	7,021,892	7,021,892	7,021,892	7,021,892
RISK MANAGEMENT	999,614	1,279,902	1,279,902	1,195,000	1,218,900	1,243,278
TRANSFERS TO GENERAL FUND	41,416	60,000	60,000	60,000	61,200	62,424
OTHER CHARGES AND SERVICES	(715,126)	43,060	43,060	(24,609)	(25,100)	(25,608)
TOTAL EXPENDITURES	\$49,435,008	\$53,505,609	\$53,505,609	\$55,775,215	\$57,535,250	59,071,132
OTHER USES						
CAPITAL OUTLAY	\$1,554,580	\$2,461,350	\$2,099,500	\$1,918,400	\$2,215,000	2,265,000
CAPITAL IMPROVEMENT BUDGET	11,527,825	25,726,372	23,976,544	13,523,800	16,926,000	13,761,000
DEBT SERVICES	2,564,781	2,794,000	2,794,000	2,758,000	2,754,000	1,224,000
TOTAL OTHER USES	\$15,647,186	\$30,981,722	\$28,870,044	\$18,200,200	\$21,895,000	17,250,000
TOTAL USES	\$65,082,194	\$84,487,331	\$82,375,653	\$73,975,415	\$79,430,250	76,321,132
EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES						
	\$2,802,099	(\$17,989,689)	(\$15,878,011)	(\$4,957,652)	(\$7,792,323)	(1,959,011)
OPERATING CASH BALANCES						
BEGINNING JULY 1	\$39,468,477	\$42,270,576	\$42,270,576	\$22,092,565	\$17,134,913	9,342,590
Watershed purchase fund			(\$4,300,000)			
ENDING JUNE 30	\$42,270,576	\$24,280,887	\$22,092,565	\$17,134,913	\$9,342,590	7,383,579
Cash Reserve Ratio	86%	45%	41%	31%	16%	12%
Cash reserve goal above 10%						

WATER UTILITY CASH FLOW

CashFlowWaterCIP2016.xlsx4/13/2015

	ACTUAL YEAR 2012-2013	ACTUAL YEAR 2013-2014	PROJECTED YEAR 2014-2015	BUDGET YEAR 2015-2016	BUDGET YEAR 2016-2017	BUDGET YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020
WATER SALES	66,081,970	62,699,688	62,051,392	64,533,448	67,114,786	69,799,377	72,591,352	75,495,006
OTHER INCOME	1,663,900	2,736,746	2,491,250	2,529,315	2,568,141	2,607,744	2,648,139	2,688,534
INTEREST INCOME	383,811	357,446	200,000	200,000	200,000	200,000	200,000	200,001
OPERATING INCOME	68,129,681	65,793,880	64,742,642	67,262,763	69,882,927	72,607,121	75,439,491	78,383,541
METROPOLITAN WATER ACCESSMENT	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)	(7,021,892)
METROPOLITAN WATER PURCHASES	(13,454,382)	(11,853,977)	(13,722,620)	(15,232,108)	(16,755,319)	(17,928,191)	(18,645,319)	(19,391,131)
OPERATING EXPENDITURES	(28,534,374)	(30,559,139)	(32,761,097)	(33,521,215)	(33,758,039)	(34,121,049)	(34,803,487)	(35,499,533)
NET INCOME EXCLUDING DEP.	19,119,033	16,358,872	11,237,033	11,487,548	12,347,677	13,535,989	14,968,793	16,470,985
OTHER RECEIPTS / BOND PROCEEDS	0		0	0	0	0	0	0
IMPACT FEES	838,040	1,054,559	500,000	500,000	500,000	500,000	500,000	500,000
OTHER CONTRIBUTIONS	4,503,809	1,035,854	1,255,000	1,255,000	1,255,000	1,255,000	1,255,000	1,255,000
CAPITAL OUTLAY	(1,574,979)	(1,528,972)	(2,099,500)	(1,918,400)	(2,215,000)	(2,265,000)	(2,170,000)	(2,120,000)
WATERSHED PURCHASES	(192,016)	(25,608)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)
DEBT SERVICE	(2,696,208)	(2,564,781)	(2,794,000)	(2,758,000)	(2,754,000)	(1,224,000)	(1,224,000)	(1,224,000)
DEBT SERVICE (NEW)	0	0	0	0	0	0	0	0
OTHER INCOME & EXPENSE	878,646	(2,028,948)	(4,638,500)	(4,421,400)	(4,714,000)	(3,234,000)	(3,139,000)	(3,089,000)
AVAILABLE FOR CAPITAL	19,997,679	14,329,924	6,598,533	7,066,148	7,633,677	10,301,989	11,829,793	13,381,985
CAPITAL IMPROVEMENTS	(10,434,451)	(11,527,825)	(22,476,544)	(12,023,800)	(15,426,000)	(12,261,000)	(8,584,000)	(9,043,000)
CASH INCREASE/(DECREASE)	9,563,228	2,802,099	(15,878,011)	(4,957,652)	(7,792,323)	(1,959,011)	3,245,793	4,338,985
BEGINING CASH BALANCE	29,905,249	39,468,477	42,270,576	22,092,565	17,134,913	9,342,590	7,383,579	10,629,372
WATERSHED PURCHASE FUND			(4,300,000)					
CASH INCREASE/(DECREASE)	9,563,228	2,802,099	(15,878,011)	(4,957,652)	(7,792,323)	(1,959,011)	3,245,793	4,338,985
Less: Impact fees (only growth related)		0						
ENDING BALANCES	39,468,477	42,270,576	22,092,565	17,134,913	9,342,590	7,383,579	10,629,372	14,968,357
WATER DEBT SERVICE COVERAGE	7.09	6.38	4.02	4.17	4.48	11.06	12.23	13.46
RATE CHANGE	1.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
ANNUAL RESIDENTIAL WATER								
BILL (1997=\$180.00)	374	389	404.91	421.10	438	455	474	493
Cash Reserve Ratio	81%	86%	41%	31%	16%	12%	18%	24%
Water Supplied in Million Gallons	33,000	30,000	30,000	30,000	30,000	30,000	30,000	30,001
Revenue per million gallons	2,002	2,090	2,068	2,151	2,237	2,327	2,420	2,516
Reserve Fund Requirement 10% of operating expen	4,901,065	4,943,501	5,350,561	5,577,522	5,753,525	5,907,113	6,047,070	6,191,256

WATER UTILITY CASH FLOW

CashFlowWaterCIP2016.xlsx3/3/2015

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	Criticality Rating	Condition Rating	Feet of Pipe Vehicle Replace	FISCAL YEARS						DELAYED
						PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	
51-03301-	2710.10	LAND										
03301		WATERSHED PROPERTY	2	1		\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	
03301		MP 3.8C - VICTORY ROAD - ENSIGN DOWNS PHASE II - PROPERTY PURCHASE - IF	4	0				500,000				
						1,500,000	1,500,000	2,000,000	1,500,000	1,500,000	1,500,000	-
51-03301-	2710.30	WATER RIGHTS & SUPPLY										
03301		WATER STOCK PURCHASES	2	2		30,000	30,000	30,000	30,000	30,000	30,000	
						30,000	30,000	30,000	30,000	30,000	30,000	-
51-01301-	2772.10	MAINTENANCE & REPAIR SHOPS - 2720.10										
00101	51360067	SLCPU FACILITY RE-LAMP	1	4		70,000						
00101	260359321.7	SLCPU FACILITY RE-LAMP	4	2		46,673						
00101	513000027	STORAGE SHED	3			10,000						
00601		CONCRETE PAD AND CARPORT-CITY CREEK CANYON					15,000					
00601		CITY CREEK CANYON - VAULT TOILET REPLACEMENT	3	4			40,000					
00601		LITTLE COTTONWOOD CANYON - VAULT TOILET REPLACEMENT	3	0					40,000			
02201		OVERHEAD DOOR REPLACEMENT-MACHINE SHOP					5,800					
03201	512167	ADMINISTRATION OFFICE HVAC, CARPET, RESTROOM	2	4		40,000	250,000					
03201	51262733	SILVER LAKE DISPLAY & UPGRADE (COST SHARING)				68,000						
						234,673	310,800	-	40,000	-	-	-
51-01301-	2772.10	TREATMENT PLANTS - 2720.30										
		CITY CREEK										
00701	5122615	DRAINAGE AND SLUDGE LINE SEPARATION AND REHAB	2	1								400,000
00701	5122621	SLIDE GATE-LEAF PREVENTION				43,000						
00701	5122624	SEDIMENTATION BASIN ROOF REPAIR	2	3								5,000,000
00701	5122626	SED BASINS - SEISMIC - COLLECTORS	2	2								8,000,000
00701	5122627	UV SYSTEM	3	0								500,000
00701	5122628	DRYING BED	3	2					50,000			1,000,000
00701	5122629	ENLARGE CLARIFIER	3	2								750,000
00701	5122633	FILTER GALLERY/ADMIN BLDG/SHOP FLOORING REPAIRS & PAINTING	3	3					90,000			
00701	5122641	REPAIR/REPLACE SEDIMENTATION BASINS	4	4								1,000,000
00701	5122642	REPLACE SODIUM HYPOCHLORITE GENERATION W/BACKUP SYSTEM	4	4		60,000					200,000	
00701	5122649	HYPOCHLORITE GENERATORS	5	4			25,000	300,000				
00701	5122657	ADD SECOND BRINE TANK	3	3		30,000						
00701		SCADA SYSTEM MASTER PLAN STUDY/UPGRADE CRITICAL COMPONENTS	3	3							150,000	
00701		IMPLEMENTATION OF SCADA MASTER PLAN	3	3								800,000
00701		ADD SECOND CLARIFIER	2	2								100,000
00701		SLUDGE COLLECTION JUNCTION BOX COVER/FLUORIDE SAMPLE LOCATION/CLARIFIER LADDER	3	4				55,000				
00701		ACTUATORS/SCADA (MULTIPLE LOCATIONS)	3	4				75,000				
00701		SP - PLANT LIGHTING (HIGH EFFICIENCY BULBS, SWITCHES LED'S)	3	3			45,000					
00701		NEW STORAGE SHEDS (UPPER CREEKSIDE/FILTER BUILDING)	2	3							50,000	
		PARLEY'S										
00801	5124497	PARLEY'S TP - CONDUIT FROM DAM TO OLD ICB TO PLANT	2	2							20,000	
00801	5124500	PARLEY'S HYDROELECTRIC FACILITIES				29,000						
00801	5124501	PARLEY'S TP - REFURBISH ALL FILTER VALVES	3	3				15,000				600,000
00801	5124504	SLUDGE BEDS - LINING & VALVES	2	2								900,000
00801	5124505	PRECURSOR/TASTE & ODOR CONTROL	3	2								1,000,000
00801	5124506	PARLEY'S TP - LABORATORY UPGRADE (BUILD)	2	4		25,000						250,000
00801	5124508	PARLEY'S TP - REPLACE ALL POST STORAGE TANK HYPO PLUMBING	1	1								10,000
00801	5124509	PARLEY'S TP - REPLACE STAIRS ON MT DELL DAM	2	2								20,000
00801	5124510	NEW IO-PLC FOR NEW INSTRUMENTS/FLUORIDE, INCL F2/HF SENSORS/ALARM	2	1								50,000
00801	5124511	REFURBISH ALL FILTER WASTE GATES	3	3								400,000
00801	5124512	REPLACE VALVES ON MT DELL DAM	1	1							500,000	
00801	5124514	SLUDGE BED STUDY	2	2								100,000
00801	5124515	WOMAN'S RESTROOM ADA UPGRADE	3	3							25,000	
00801	5124523	36" BYPASS VALVE IN LOWER VALVE HOUSE				1,000						
00801	5124524	UPGRADE FLOC SHAFTS AND MOTOR ALIGNMENT				84,920						
00801	5124525	SLUDGE COLLECTION AND CONVEYANCE SYSTEM										100,000

**WATER UTILITY
CASH FLOW**

CashFlowWaterCIP2016.xlsx3/3/2015

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	Criticality Rating	Condition Rating	Feet of Pipe Vehicle Replace	FISCAL YEARS					DELAYED	
						PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19		2019-20
00801	5124526	INFLUENT CONTROL BOX (ICB)										1,000,000
00801	5124527	TRAINING AREA REHAB									25,000	
00801	5124528	HYDROGENERATOR PLANT										5,000,000
00801	5124536	FILTER WASH AGITATOR ARMS	5	3	270,000							
00801	5124541	HYPOCHLORITE GENERATOR STORAGE RECONSTRUCTION/RELOCATION	4	4	2,600,000							
00801	5124542	SEAL CRACKS IN SETTLE WATER CHANNEL	4	3	30,000							
00801	5124543	BUILDING HEATING SYSTEM UPGRADE			21,018							
00801	5124547	ELEVATOR CONTROLS UPGRADE	4	3	150,000							
00801	5124547	SCADA SYSTEM MASTER PLAN STUDY/UPGRADE CRITICAL COMPONENTS	5	3				150,000				
00801	5124549	REPAINT PIPING IN METER BOX			38,000							
00801	51410067	PARELY'S TP - INSTALL CARBON FEED SYSTEM	3	3							50,000	
00801		RELOCATE BOAT RAMP AND BOAT HOUSE	2	3							200,000	
00801		IMPLEMENTATION OF SCADA MASTER PLAN	4	4							1,600,000	
00801		ISOLATION VALVE IN SETTLE WATER CHANNEL	4	3							30,000	
00801		MCC REPLACEMENT (BASEMENT, SECOND, AND THIRD FLOOR)	4	4		50,000						
00801		ICB ENTRY ROOF/COVER FOR PARKING AREA	1	4						50,000		
00801		REPLACE/REPAIR CLARIFIER MOTOR/DRIVE	4	4		55,000						
00801		ALARM SYSTEM/WATER LEVEL SENSORS (METER/BLOW-OFF BOXES)/CAMERA @ LITTLE DELL GATE	5	0			65,000					
00801		SP - PLANT LIGHTING (HIGH EFFICIENCY BULBS, SWITCHES LED'S)/REPLACE ADMINISTRATION BUILD	3	3		165,000						
00801		REPAIR AND PAINT BUILDING EXTERIOR	3	4							150,000	
00801		ELECTRICAL CONDUITS/PAVING TO BLOW-OFF BOX/ASPHALT EAST AND SOUTH OF FACILITY	3	3							170,000	
00801		REPLACE SLUDGE COLLECTION SYSTEM FLIGHTS/CHAINS (SPROCKETS)	4	4		50,000	500,000					
00801		CRACK REPAIR CLEAR WELL	4	4		20,000						
00801		REPLACE SLUDGE COLLECTION SYSTEM PIPING	4	4							2,000,000	
00801		REPLACE FLOCCULATORS	4	4						25,000		
		BIG COTTONWOOD										
00901	5126101	RELOCATE FILTER GALLER I/O PANELS FROM BAD ENVIRONMENT	2	2	50,000							
00901	51262750	CREEKSIDE INTAKE STRUCTURE UPGRADE	4	3	1,300,000							
00901	51262751	REPLACE FLASH MIXERS	4	3	80,000							
00901	51262752	REPLACE HIGH PRESSURE AND BACKASH PUMPS ON CLEARWELL LANDING	4	3	100,000							
00901	51262757	BC REFURBISH FILTER VALVES-PHASE 2			330,000							
00901	51262758	SCADA SYSTEM MASTER PLAN STUDY/UPGRADE CRITICAL COMPONENTS	5	3	150,000							
00901	51262759	SCADA MASTER PLAN/OPERATOR STATION UPGRADE IMPLEMENTATION	4	3			700,000	200,000				
00901	51262760	SEISMIC UPGRADE PLAN	3	3			75,000		400,000			4,000,000
00901	511400138	90 FOOT INTAKE REPLACEMENT	4	3								1,000,000
00901	514100138	90 FOOT CHANNEL FLOOR AND WALL REPLACEMENT FINAL DESIGN	4	3	45,000							
00901		REPAIR/LASER FLOCCULATION SHAFT DRIVES AND EQUIPMENT	4	4			150,000					
00901		FILTER SURFACE WASH PIPING REPLACEMENT	4	4		315,000						
00901		TREES REMOVED FROM AROUND THE DRYING BEDS	4	3				15,000	40,000			
00901		EFFLUENT FLOW METER/FINISHED WATER SAMPLE POINT	3	4								1,030,000
00901		SEDIMENTATION BASIN REBUILD	3	4								3,000,000
00901		SP - PLANT LIGHTING (HIGH EFFICIENCY BULBS, SWITCHES LED'S)	3	3		75,000						
00901		ASPHALT LOWER-END OF BUILDING TO DRYING BEDS	3	3								180,000
00901		2-10 MG FINISHED WATER STORAGE RESERVOIR	3	3								10,000,000
00901		POLE BARN WEST OF CLARIFIERS	2	3								80,000
						5,436,938	800,000	2,085,000	355,000	440,000	1,045,000	50,470,000
51-01301-	2772.10	PUMPING PLANTS AND PUMP HOUSES - 2720.35										
01301	513416327	MP 3.9 - NEW PUMP STATION - TETON TO MT. OLYMPUS/4500 SOUTH HIGH - IF	4	1								695,000
01301	51341672	7800 SOUTH UPGRADE	4	2	116,070							
01301	513416326	UPPER BOUNDARY REPLACE SPRING BOX	3	2	450,000							
01301	513416329	UV UPGRADE 6200 SOUTH PUMP STATION	3	3	30,000							300,000
01301	513416330	MILITARY PUMP STATION - FULL BACKUP POWER	4	3	30,000							500,000
01301	513416332	OAKHILLS PUMP STATION-MOTOR CONTROL CENTER/VFD/PUMP UPGRADE	3	3								500,000
01301	513416333	FONTAINE BLEU - VFD	3	3								250,000
01301	513416334	48TH AND 9TH BOOSTER - VFD	3	3								25,000
01301	513416338	CHEMICAL TANK REPLACEMENTS (Fluoride/Hypochlorite/Peroxide)	5	5	300,000	300,000						
01301	513416339	UPGRADE CARRIGAN COVE PUMP STATION	5	4	319,000							
01301	513416340	4500 SOUTH PUMP STATION (BACK UP)	5	0								500,000
01301	513416331	MP 3.11 - AUXILIARY POWER - EAST BENCH PRESSURE ZONE	4	3	50,000		500,000					

**WATER UTILITY
CASH FLOW**

CashFlowWaterCIP2016.xlsx3/3/2015

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	Criticality Rating	Condition Rating	Feet of Pipe Vehicle Replace	FISCAL YEARS						DELAYED
						PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	
01301	513416336	MP 3.12B - 7800 SOUTH AUXILIARY POWER	3	3					280,000			
01301	513416341	ASPHALT RAOD TO GRANITE OAKS PUMP STATION	3	3		80,000						
01301	513416342	BUILDING OVER THE EMIGRATION WELL	2	2		20,000						
01301		7800 SOUTH PUMP STATION - BUILDING REPAIRS	4	5			35,000					
						1,395,070	335,000	500,000	280,000	-	-	2,770,000
51-01301-	2773.10	CULVERTS FLUMES & BRIDGES - 2730.02										
01301	5129231	JSL CANAL - 1750 S EMIGRATION DIVERSION STRUCTURE REBUILD	4	3		15,000			150,000			
01301	5129232	JSL CANAL - MODIFY BIG SPILL TO HANDLE TEMPORARY PUMP	2	2		5,000						50,000
01301	5129233	JSL 3800 S REHAB FLOOR AND LEAKAGE	3	3		20,000				200,000		
01301	5129234	JSL CANAL/JORDAN RIVER STABILIZATION AT EAST JORDAN DUMP	4	4		20,000		200,000				
01301	5129235	JSL 4500 SOUTH TO OSAGE ORANGE DRIVE - CANAL BANK HYDRAULICS	3	3					20,000			
01301	5129242	PIPING DITCH ON JSL, OSAGE ORANGE STREET TO LINCOLN LANE							25,000	150,000		
01301	5129243	VARIOUS CANAL IMPROVEMENTS	4	1			50,000	50,000	50,000	50,000	50,000	
01301	5129244	JSL CANAL RAMP FLUME				100,000						
01301	5129246	REPLACE FLUME/AUTO DUMP AND JSL CANAL ENCLOSURE @ MILLCREEK	5	4		20,000	32,000	150,000				
01301	51430010	IRRIGATION SCADA IMPROVEMENTS	3	2		50,000	20,000					
01301	512505112	REPAIR/REPLACE UNDERMINED SPILL AT 20 EAST & MILLCREEK				20,000						
01301	513000022	JOINT DAM DIVERSION STRUCTURE					50,000					
01301	5129248	GREEN WALKER EXCHANGE IRRIGATION LINE REPAIR				50,000						
01301		JSL AT 3700 S, D/S TO SOUTH OF MURPHY'S LANE, U/S TO 3900 S, INSPECTION/REPAIR	5	4		20,000		200,000				
01301		INSPECTION AND REPAIR OF DYER'S WELL LINE	4	5			15,000					400,000
01301		JSL AT HOLLYWOOD AVE, CAPACITY STUDY/CONDUIT ENLARGEMENT	5	3					15,000	197,000		
01301		JSL ENCLOSURE FROM 1300 EAST TO MILLCREEK	5	3								1,000,000
01301		E JORDAN TOWER - IMPROVED ACCESS	3	5								72,000
01301		INSPECTION/REHAB OF SYSTEM D/S OF DUMP SOUTH OF I-80 ON JSL	4	4			10,000					
01301		ACCESS BRIDGE ACROSS JSL @ BIG COTTONWOOD CREEK (BIG SPILL)	5	3				86,000				
01301		JSL 1300 EAST CULVERT REPLACEMENT	4	3								200,000
01301		DESPAIN IRRIGATION SYSTEM IMPROVEMENTS	3	3				15,000				
01301		NEW IRRIGATION CONDUIT FROM JSL TO 1100 EAST ON HARVARD AVE	4	0								400,000
01301		SP - IMPROVEMENTS TO JSL DUMP AT I-80	3									350,000
						320,000	177,000	701,000	260,000	597,000	50,000	2,472,000
51-01301-	2773.10	DEEP PUMP WELLS - 2730.04										
01301	5132241	RED BUTTE	0	3								2,500,000
01301	5132245	WELL ASSESSMENT AND UPGRADES	3	3		150,000	200,000	200,000	200,000	200,000	200,000	
01301	5132246	TREATMENT OF PCE AT WELLS (SUGARHOUSE, 13TH E, 27TH S)	3	3								12,000,000
01301	5132248	SUGARHOUSE PARK WELL - VFD	0	3								60,000
01301	5132249	19TH AND 27TH SOUTH WELL - VFD	0	3								60,000
01301	5132250	6200 SOUTH WELL - VFD	0	3								50,000
01301		MP 3.4 - 4TH AVENUE WELL/BRICK TANK IMPROVEMENTS	5	5			50,000				350,000	
01301		MP 3.4 - 4TH AVENUE WELL ELECTRICAL IMPROVEMENTS	5	4		40,000	150,000					2,150,000
01301	5132255	ARTESIAN WELL 2 - REHAB	0	4								250,000
01301	5132259	1300 E WELL-GROUNDWATER CHARACTERIZATION/PCE RISK ASSESSMENT	4	5		260,000						
01301	5132260	MICK RILEY WELL RESTORATION	1	5								1,000,000
01301	5132261	WELL BUILDING STRUCTURE UPGRADES	0	2			100,000	100,000	100,000	100,000	100,000	300,000
01301	5132265	ELLISON WELL PUMP PANEL REPLACE AND ELECTRICAL UPGRADE				2,000						
01301	5132266	GREENFIELD VILLAGE WELL MOTORS REPAIR				15,464						
01301	51322334	WELL 14 - VFD	0	2								200,000
01301	51322336	WELL TREATMENT PROJECT - 1500 EAST WELL	4	4								1,000,000
						467,464	500,000	300,000	300,000	300,000	650,000	19,570,000
51-01301-	2773.10	STORAGE RESERVOIRS - 2730.06										
01301	5134455	RED PINE DAM REHABILITATION	4	3				30,000	325,000			
01301	5134457	NEW STAFF GAGE AT LITTLE DELL DAM	3	3					60,000			
01301	5134458	REHABILITATION OF MOUNTAIN DELL DAM	5	4				250,000				4,990,000
01301	5134460	LAKE MARY OUTLET GATE REPLACEMENT	5	4		100,000					100,000	
01301	5134466	PARLEY'S CANYON HYDROPOWER PROJECT	1	0							146,000	1,123,000
01301	5134467	MOUNTAIN DELL RESERVOIR- BYPASS PIPE LITTLE DELL TO PARLEY'S	4	0								2,660,000
01301	5134468	LITTLE DELL RESTORE PARLEY'S DIVERSION EXTERIOR COATING	4	4		5,000		230,000				
01301	5134469	LAKE MARY CONCRETE REPAIRS	5	4			15,000	50,000				

**WATER UTILITY
CASH FLOW**

CashFlowWaterCIP2016.xlsx3/3/2015

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	Criticality Rating	Condition Rating	Feet of Pipe Vehicle Replace	FISCAL YEARS						DELAYED
						PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	
01301		MP 3.14 - AUXILIARY POWER - GOLDEN HILLS	5	0					45,000			
01301	5134476	LITTLE MTN DELL/PARLEY'S CNYN - CHEVRON OIL SPILL PROTECTION	4			800,000						
01301	5134478	LITTLE DELL DAM - INSTALL NEW DRAINS ON THE PORTAL	3	3				15,000				
01301	51344330	LITTLE DELL DAM ACCESS ROAD REHABILITATION				1,000						
01301		LITTLE DELL DAM - REPLACE TOE-DRAIN GAGE	5	4			15,000					
01301		LITTLE DELL ROAD REPAIRS	3	4				90,000				
						906,000	30,000	575,000	520,000	-	246,000	8,773,000
51-01301-	2773.10	<u>DISTRIBUTION RESERVOIRS - 2730.07</u>										
01301	5134470	MISCELLANEOUS REPAIRS		1			50,000	50,000	50,000	50,000	50,000	50,000
01301	5134471	TANK PAINTING AND CORROSION CONTROL										1,000,000
01301	5134480	TANNER DRAIN LINE	5	5		174,950						
01301	5134485	NEFF'S TANKS CONCRETE WEEPING LINES	3	5		80,000						
01301	5134486	WOLCOTT TANK - ABANDON	2	3		42,000						
01301	513444159	MILITARY RESERVOIR REPAIR		1			20,000					11,000,000
01301		WQ - GRID BEES INSTALLATION					225,000					
						296,950	295,000	50,000	50,000	50,000	50,000	12,050,000
51-01301-	2773.10	<u>DISTRIBUTION MAINS & HYDRANTS - 2730.08</u>										
		<u>CITY, COUNTY, STATE AND MISC. DRIVEN PROJECTS</u>										
01301	5134489	MOUNTAIN DELL BYPASS & HYDROPOWER				75,564						
01301	51350561	1400 EAST BLAINE AVE 1760 S TO 1700 EAST				9,005						
01301	51400029	CONTINGENCY PROJECTS	3	1			200,000	200,000	200,000	200,000	200,000	600,000
01301	513505076	500/700 S REHAB - SURPLUS CANAL TO GLADIOLA STREET (3400 W)	3	1	4,000							100,000
01301	513505171	FOOTHILL DR 1200 S TO 1300 S				602,517						
01301	513505183	UDOT ROAD PROJECT SR-68 PROJECT F-0068-67-57				116,863						
01301		1700 SOUTH - STATE STREET TO 700 EAST					700,000					
01301		CITY ROADWAY RECONSTRUCTION PROJECT	3	3			75,000					
						803,949	975,000	200,000	200,000	200,000	200,000	700,000
		<u>WATER MAIN MISCELLANEOUS PROJECTS</u>										
01301	514504	REGULATOR REPLACEMENT				300,000	300,000	300,000	300,000	300,000	300,000	
01301	51400032	NEW WATER LINES - CONTRIBUTIONS BY DEVELOPERS	NEW			500,000	500,000	500,000	500,000	500,000	500,000	
01301	513700029	FIRE HYDRANT REPLACEMENTS				400,000	400,000	400,000	400,000	400,000	400,000	
01301	513800033	NEW MAINLINE VALVES - COUNTY				138,000	138,000	138,000	138,000	138,000	138,000	
01301	513800033	NEW MAINLINE VALVES - CITY				262,000	262,000	262,000	262,000	262,000	262,000	
						1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	1,600,000	-
		<u>WATER MAIN REPLACEMENTS</u>										
	514506	NEW REGULATORS AND VAULT (TURBINES) 500 SO AND 1000 E	5	4		70,000	1,000,000					
01301	51400031	NEW WATERMAINS 2014/15				8,000						
01301	513301968	G12-1 3100 EAST - UPLAND DRIVE (3760 S) TO DEL MAR DRIVE (3825 S)	3	4	575	106,000						
01301	513302008	BUTLER MIDDLE SCHOOL 2600 E 7800 S										
01301	513302011	G13-4 HIDDEN OAKS DR (3370 E) - RUSSELL PARK DR TO END OF ST	4	3	1,260	195,300						
01301	513302012	G13-4 GRAND OAKS DR (3465 E) - RUSSELL PARK RD TO 8635 S	4	3	1,285	200,000						
01301	513302013	G13-4 SCANDIA WY (8230 S)/NORDIC DR (8200 S) - FINLANDIA WY TO DANISH RD	4	3	1,025	159,000						
01301	513302014	G13-4 SUPERNAL WY (3615 E) - TOP OF THE WORLD DR TO LORA LEE CIR	4	3	810	126,000						
01301	513302015	G13-1 2520 EAST - HERITAGE WY (2760 S) TO BARBEY DR (2800 S)	4	3	345	48,300						
01301	513302015	G13-1 HERITAGE WAY (2760 S) - 2520 EAST TO APPROX. 2575 EAST	4	3	325	45,500						
01301	513302015	G13-1 BARBEY DRIVE (2800 S) - 2520 EAST TO 2700 EAST	4	3	1,320	184,800						
01301	513302015	G13-1 WAINWRIGHT RD (2605 E) - BARBEY DR (2800 S) TO 2900 S	4	3	960	134,400						
01301	513302015	G13-1 DEVEREAUX WY (2550 E)-WAINWRIGHT RD (2605 S) TO 2900 S	4	3	790	110,600						
01301	513302015	G13-1 2900 SOUTH - DEVEREAUX WAY (2550 E) TO 2700 EAST	4	3	715	100,100						
01301	513302017	900 EAST - 4900 SOUTH TO 5600 SOUTH	3	4	5,830							1,500,000
01301	513302018	G13-1 2880 SOUTH - 2700 SOUTH TO 2870 EAST	4	3	1,075	150,500						
01301	513302019	G13-1 2960/2965 SOUTH - 2790 EAST TO GRACE STREET (3100 E)	4	3	2,100	294,000						
01301	513302021	6200 SOUTH 2900 EAST TO 3000 EAST	4	0	1,600			95,000				
01301	513302022	EDWARD DRIVE REGULATED AND 4500 SOUTH LOW ZONE CONNECTION	4	3	750	270,000						
01301	513302031	G13-1 GRACE STREET (3100 E) - 2965 S TO LOUISE AVE (2020 S)	4	3	335	46,900						
01301	513302032	G14-1 MORNINGSIDE DR (4060 S/3075 E)-DELSA DR TO PINETREE DR	4	5	900		204,000					

**WATER UTILITY
CASH FLOW**

CashFlowWaterCIP2016.xlsx3/3/2015

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	Criticality Rating	Condition Rating	Feet of Pipe Vehicle Replace	FISCAL YEARS						DELAYED
						PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	
01301	513302033	G14-1 ENCHANTED HILLS DR (7510 S)-MAGIC HILLS DR TO END OF MAIN	4	3	1,700		358,000					
01301	513302034	G14-1 MOUNTAIN ESTATES DR (3355 E) - BENGAL BLVD TO 7635 SOUTH	4	3	1,100		250,000					
01301	513302035	G14-1 COUNTRY MANOR RD (7620 S)-3500 E TO COUNTRY HOLLOW DR	4	4	1,065		228,000					
01301	513302036	G14-4 7590 SOUTH - 3395 EAST TO 3500 EAST	4	4	710		156,000					
01301	513302037	G14-4 AVONDALE DR (3700 E) - 7650 S TO 3623 E	4	4	890		192,000					
01301	513302038	G14-4 BISCAYNE DR (2975 E) - BENGAL BLVD TO OAKVIEW CIR	4	3	620							158,000
01301	513302039	G14-4 2500 EAST - CHALET ROAD (8030 S) TO 8200 SOUTH	4	3	1,340			175,000				
01301	513302040	G15-5 2700 EAST - 4215 SOUTH TO MAURICE DRIVE (4345 S)	4	3	1,825	255,500						
01301	513302042	G14-5 4290 S (WELL HOUSE MAIN)-GLENNA DR (2575 E) TO 2700 E	4	3	400						92,000	
01301	513302045	G15-4 MARDONNA WY (3545 S) - SUNILAND DR TO MILLSTREAM DR	4	3	700					98,000		
01301	513302046	G15-4 SUNILAND DR (3550 E) - MILLSTREAM LN TO END OF SUNILAND CIR	4	3	670					94,000		
01301	513302047	G15-4 MILLSTREAM DR (3580 S)-MARDONNA WY TO EASTWOOD DR	4	3	1,300					182,000		
01301	513302049	BOWEN RESIDENCE 2480 EAST WALKER LANE				1,000						
01301	513302058	SHORT HILLS DRIVE (3375 E) - 8244 SOUTH TO 8307 SOUTH	4		280				35,000			
01301	513302059	3900 SOUTH - 900 EAST TO 939 EAST	3		365				50,000			
01301	513302074	2300 EAST I-215 WATERLINE REPLACEMENT				123,000						
01301	513302075	SKAGGS WATER MAIN EXTENSION				5,000						
01301	513302076	HAMPTON PLACE PUD 3600 SOUTH 2300 EAST				1,000						
01301	513302079	WALKER LANE HOLLADAY WATER LINE				86,000						
01301	513504638	G15-3 1400 EAST - 1700 SOUTH AND BLAINE AVENUE (1735 S)	4	3	354					50,000		
01301	513504717	G15-3 LOGAN AVENUE (1625 S) - BLAIR AVE TO DENVER ST	4	3		120,000						
01301	513504833	G15-1 900 WEST - 1300 SOUTH TO CALIFRONIA AVENUE (1348 S)	5	4	390		135,000					
01301	513504841	G14-3 400 SOUTH - EMERY ST (1170 W) TO GOSHEN ST (1040 W)	4	3	200	210,000						
01301	513504858	G14-2 DULUTH AVE (1550 N) - 900 WEST TO DEXTER ST (840 W)	4	3	355				47,000			
01301	513504990	G14-2 SOUTH TEMPLE - 1000 W TO JORDAN RIVER (APPROX 1120 W)	4	3	1,735	326,000						
01301	513505118	G13-3 MICHIGAN AVENUE (980 S) - 1300 EAST TO 1500 EAST	4	3	1,635	254,000						
01301	513505119	G13-3 200 EAST - 400 SOUTH TO 500 SOUTH (EAST SIDE)	4	3	685	110,000						
01301	513505120	G13-3 VIRGINIA ST (1345 E) - CRESTLINE CIR TO FIFTH AVE	4	3	720	111,600						
01301	513505121	G14-2 NEW STAR DR (1785 W) - NORTH STAR DR TO END OF STREET	4	3	925	136,000						
01301	513505122	G14-2 DUPONT AVE (1335 N) - AMERICAN BEAUTY DR TO 990 W	4	3	520				68,000			
01301	513505123	G14-2 900 WEST - DULUTH AVENUE (1550 N) TO 1500 NORTH	4	3	295					39,000		
01301	513505124	G14-2 BUCCANEER DRIVE (1160 W) - 1000 NORTH TO 1103 NORTH	4	3	690							90,000
01301	513505125	G15-1 WEST TEMPLE - 500 SOUTH TO 800 SOUTH (EAST SIDE)	4	4	2,240			469,000				
01301	513505126	G15-1 1400 SOUTH - 900 WEST TO 1000 WEST	4	4	600			132,000				
01301	513505127	G15-1 1000 WEST - 1400 SOUTH TO 1700 SOUTH	4	4	2,040			428,000				
01301	513505128	G15-2 WILTON WY (2900 E) - AMBASSADOR WY TO SHERWOOD DR	4	3	1,770							248,000
01301	513505129	G15-2 1700 S - FOOTHILL DR (2100 E) TO WASATCH DR (2520 E)	4	3	1,050							147,000
01301	513505130	G15-2 FOOTHILL DR-EMERSON AVE TO KENSINGTON AVE (EAST SIDE)	4	3	450				63,000			
01301	513505131	G15-3 LOGAN AVENUE (1620 S) - 1000 EAST TO 1100 EAST	4	3	800	120,000						
01301	513505132	G15-3 MILTON AVENUE (1595 S) - 1100 EAST TO 1200 EAST	4	3	825							116,000
01301	513505133	G15-3 1700 SOUTH - 1000 EAST TO 1100 EAST	4	3	800							112,000
01301	513505134	G15-3 BRYAN AVENUE (1565 S) - 900 EAST TO 1000 EAST	4	3	800							112,000
01301	513505151	G14-6 700 SOUTH - 608 WEST TO 642 WEST	5	-	400	1,000						
01301	513505153	G14-8 400 EAST - 1497 SOUTH TO 1530 SOUTH	4	-	440	1,000						
01301	513505154	G14-6 2250 NORTH - WARM SPRINGS RD (1035 W) TO BECK (1000 W)	5	5	320		25,000	270,000				
01301	513505155	WESTMINSTER AVENUE - LAURELHUST TO FOOTHILL	4	4	340				91,000			
01301	513505156	G14-6 200 SOUTH - 600 WEST TO JEREMY STREET	4	4	1,980			416,000				
01301	513505158	SUNNYSIDE AVENUE (850 S) - APPROX. 1742 EAST TO APPROX. 1752 EAST	3	-	300	122,000						
01301	513505160	BELMONT AVENUE (970 S) - 800 EAST TO WINDSOR STREET (850 E)	3	5	420	64,000						
01301	513505161	YALE AVENUE (1050 S) - 700 EAST TO LAKE STREET (740 E)	3	5	400	58,000						
01301	513505162	FLORAL STREET (130 E) - 200 SOUTH TO APPROX. 241 SOUTH	3	5	385	58,000						
01301	513505163	ALBERMARLE AVE (1370 S) - WEST TEMPLE TO JEFFERSON (140 W)	3	5	335	50,000						
01301	513505166	400 EAST - 1497 SOUTH TO 1530 SOUTH	4		235							20,000
01301	513505167	1400 EAST - GILMER AVE (1000 S) TO 1060 SOUTH	4		485							60,000
01301	513505172	BOYER 102 TOWER PARKING GARAGE				2,000						
01301	513505173	1300 SSOUTH VIADUCT 16 IN MAIN REPLACEMENT				345,000						
01301	513505177	BENDING RIVER WATER MAIN-EASEMENT				3,000						
01301	513505178	TERMINAL REDELVELOPMENT PROJECT				1,000						
01301	513505182	WEST STATION APARTMENTS				1,000						
01301	513505186	WASATCH ELEMENTARY 60 R STREET				5,000						
01301	513505187	SEASONS AT DENVER STREET				1,000						
01301		G12-1 EVERGREEN AVENUE (1903 TO 2300 EAST)	3	4	1,750	35,000	95,000					
01301		600 WEST - 600 NORTH TO RAILROAD CROSSING	5	4	365							243,000
01301		700 SOUTH - 500 WEST TO 700 WEST	5	4	1,200		25,000					428,000

**WATER UTILITY
CASH FLOW**

CashFlowWaterCIP2016.xlsx3/3/2015

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	Criticality Rating	Condition Rating	Feet of Pipe Vehicle Replace	FISCAL YEARS						DELAYED
						PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	
01301		STATE ST/NORTH TEMPLE - RECONNECT MAIN AWAY FROM COMM LINE	4	5				160,000				
01301		1000 NORTH - 1500 WEST TO REDWOOD ROAD	4	5	1,565		331,000					
01301		BECK STREET - 1805 NORTH TO 1180 NORTH	4	5	6,025				70,000			1,223,000
01301		CITY CREEK HIGHLINE	5	4	1,460				60,000	381,000		
01301		STATE STREET - 700 SOUTH TO 800 SOUTH	4	5	725				159,000			
01301		4620 SOUTH - HIGHLAND DRIVE TO END OF STREET	4	4	1,360							289,000
01301		J STREET - SUNRISE AVENUE TO NORTHCREST DRIVE	4	4	2,000			536,000				
01301		COBBLECREST RD - 6380 S TO 2300 E; HAUN AVE - 2300 E TO COBBLECREST	4	4	1,930							406,000
01301		INDIANA AVENUE (850 SOUTH) - 1800 WEST TO 1925 WEST	3	5	980			296,000				
01301		2300 EAST - 6200 SOUTH TO 6400 SOUTH	4	4	1,255				268,000			
01301		GREGSON AVENUE - 2465 EAST TO 2700 EAST	4	4	1,495				316,000			
01301		3390 SOUTH - 700 EAST TO RIVERIA DRIVE	4	4	345				120,000			
01301		REDWOOD ROAD - 500 SOUTH TO 1030 SOUTH	4	4	4,320			45,000				1,000,000
01301		800 SOUTH - 1200 EAST TO 1220 EAST	3	5	455				134,000			
01301		NORTH TEMPLE - 1800 WEST TO REDWOOD ROAD	4	4	710				156,000			
01301		PLEASANT VALLEY LINE	4	4	2,970							618,000
01301		420 N MAIN ST - 1" SERVICE REPLACEMENT - MAIN ST TO WALL ST	4	4	265					64,000		
01301		SCOTT AVENUE - 700 EAST TO SCOTT PARK LANE	3	4	460					105,000		
01301		STATE STREET - KELSEY AVENUE (1161 SOUTH) TO 1300 SOUTH	1	5	660						146,000	
01301		700 EAST - DRIGGS AVE (2370 S) TO WARNOCK AVE (2470 S)	1	5	665			22,000			275,000	
01301		900 EAST HILLVIEW (4060 SOUTH) - REPLACE DIP UNDER SEWER	1	5	20				36,000			
01301		500 SOUTH - 2130 WEST TO ORANGE STREET	1	4	600					217,000		
01301		NEW REGULATORS AND VALULTS (MULTIPLE LOCATIONS)					40,000					
		MASTER PLAN PROJECTS										
01301	5134464	MP 3.12A - 7800 SOUTH PRESSURE ZONE - 4.3 MILLION GALLON RESERVOIR	2	0								3,000,000
01301	51360060	MP 2.2 - ADDITIONAL SURFACE WATER DEVELOPMENT - SEE CONVEYANCE STUDY	2									12,000,000
01301	51360061	MILLCREEK WATER TREATMENT FACILITY	1									80,000,000
01301	51360062	MP 2.3 - WASTEWATER REFUSE	4	3								23,000,000
01301	513302020	3RD EAST PHASE II - MARCUS TO ARTESIAN BASIN	4	4	7,780	130,000		2,731,000				
01301	513302060	MP3.6A - 12" PIPELINE ON FT UNION (7800 S LOW ZONE)	4	3			213,000					
01301	513302061	MP 3.5C - 16" PIPELINE ON BENGAL BLVD	4	0	6,575							1,134,000
01301	513302062	MP 3.6B - 12" PIPELINE ON BRIGHTON WAY (7800 LOW ZONE)	4	0	1,300							200,000
01301	513302063	MP 3.5A - 12" PIPELINE ON HIGHLAND DR (6200 S HIGH ZONE)	3	3	1,580							222,000
01301	513302080	PARLEY'S CONDUIT REPAIR - UDOT				150,000						
01301	513416337	MP 3.16 - NORTH BENCH PUMP STATION	4									1,500,000
01301	513505088	CITY CREEK TREATMENT LINE TO MORRIS SRESERVOIR	5	4	2,660			120,000	767,000			
01301	513505098	MP 3.1A - EAST-WEST CONVEYANCE LINE-PARK RESERVOIR TO SUGARHOUSE PARK	4	1	23,000			60,000	400,000			5,000,000
01301	513505116	MILLCREEK TREATMENT PLANT LINE - TANK TO WASATCH BLVD (24')	4	3	3,000							750,000
01301	513505117	MP 3.1B - EAST-WEST CONVEYANCE LINE - SUGARHOUSE PARK TO 900 WEST	4		20,500							7,000,000
01301	513505159	MP 3.17 - 8" LOOP AT 2200 WEST/2200 NORTH	5	1	4,450					937,000		
01301	513505168	MP 3.8C - VICTORY ROAD - ENSIGN DOWNS PHASE II - IF	4	0		2,500,000			2,250,000			
01301	513505169	MP 3.1C - EAST-WEST CONVEYANCE LINE - 900 WEST TO 3400 WEST (PHASE 3)	1									12,000,000
01301		MP 2.1 - DEVELOP ADDITIONAL GROUND WATER SOURCES	2									18,000,000
01301		MP 3.19 - MILLCREEK WELL IMPROVEMENTS - 12" PIPELINE TO 2700 SOUTH	5	0	7,400							1,705,000
01301		MP 3.18 - 6400 SOUTH PRV STATION AND PIPELINE	4	0							305,000	
01301		MP 3.5B - 16" PIPELINE ON NEWPORT WAY/NANTUCKET DRIVE	4	0	2,285						394,000	
01301		MP 3.7 - ADD THROTTLING CONTROL VALVE INTO WILSON RESERVOIR	3	0							110,000	
01301		MP 3.3B - 4500 SOUTH TRANSMISSION MAIN	3	0	10,500						500,000	5,696,000
						7,635,500	3,252,000	5,685,000	5,360,000	2,167,000	1,822,000	177,977,000
		TOTAL DISTRIBUTION MAINS & HYDRANTS				\$ 10,039,449	\$ 5,827,000	\$ 7,485,000	\$ 7,160,000	\$ 3,967,000	\$ 3,622,000	\$ 178,677,000
		WATER SERVICE CONNECTIONS - 2730.09										
03201	513900087	WATER METER REPLACEMENT PROGRAM				100,000	100,000	200,000	200,000	200,000	200,000	
03301	513900089	NEW SERVICE CONNECTIONS				400,000	400,000	400,000	400,000	400,000	400,000	
01701	513900092	SERVICE LINE REPAIRS/REPLACEMENTS				1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	
02201	513900090	LARGE METER REPLACEMENTS				400,000	400,000	400,000	400,000	400,000	400,000	
02401	513900091	SMALL METER REPLACEMENTS				400,000	400,000	400,000	400,000	400,000	400,000	
03201		FIXED NET RADIO READING SYSTEM				250,000	250,000					
03201		METER CHANGE OUT PROGRAM										12,000,000
						3,350,000	3,350,000	3,200,000	3,200,000	3,200,000	3,200,000	12,000,000

**WATER UTILITY
CASH FLOW**

CashFlowWaterCIP2016.xlsx3/3/2015

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	Criticality Rating	Condition Rating	Feet of Pipe Vehicle Replace	FISCAL YEARS						DELAYED
						PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	
		LANDSCAPING - 2730.20										
03201	51360014	ADMINISTRATION BUILDING - CONSERVATION IMPROVEMENTS									150,000	
03201		MAINTENANCE ASPHALT PARKING LOT	4	5			175,000					
03201		ACCESS ROAD REHABILITATION LITTLE DELL DAM					150,000					
03201		LITTLE DELL RECREATION AREA PAVEMENT REPAIR	3	4			44,000		44,000			
03201		AFFLECK PARK CAMPGROUND ENTRANCE ROAD REPAIR	3	4					22,000			
						-	369,000	-	66,000	-	150,000	-
		TOTAL CAPITAL IMPROVEMENTS				\$ 23,976,544	\$ 13,523,800	\$ 16,926,000	\$ 13,761,000	\$ 10,084,000	\$ 10,543,000	\$ 286,782,000
					REPLACING							
	2750.10	AUTOMOBILES & TRUCKS			VEHICLE #							
00601		1/4 TON COLORADO 4X4 EXT CAB			3050 31079		54,000					
00601		3/4 TON 4X4 EXT CAB			31098		28,000					
00701		3/4 TON 4X4 LB PU (1) SNOW PLOW FOR CANYON	5			28,000						
00801		1/2 TON PU 4X4 REB CAB SHORT BED			3412		26,700					
01401		SUV AWD HYBRID (1)	3		31003	32,000						
01401		1 TON 4X4 SRW EXT CAB W/SERVIC BODY (1)	5		31038	35,000						
01401		3/4 TON C&C 4X4 CAB w/SERVICE BODY			31009,05		72,000					
01601		3/4 TON PU 4X4 EXT CAB			36730		28,000					
01601		TRUCK 4X4 LONG BED (1)			36640	32,000						
01601		SUV AWD HYBRID (1)	3		36730		28,000					
01701		1/4 TON PU 4X4 EXT CAB W/SHELL (1)	3		31082	30,000						
01701		10 WHEEL DUMP (2)	5	31091, 31092, 31062, 31104		290,000	310,000					
02201		1 TON C&C 4X4 DRW LANDSCAPING			31013	32,000						
02501		1 TON 4X4 SRW EXT CAB W/SERVIC BODY (1)			31096, 31097	35,000						
02601		1/4 TON COLORADO REB CAB (2)			36700 31048		44,000					
02601		1/4 TON PU LONG BED (2)			31020	72,000						
02801		TRUCK-COLLECTORS			31125	25,000						
02301		VARIOUS						1,200,000	1,200,000	1,200,000	1,200,000	
						611,000	590,700	1,200,000	1,200,000	1,200,000	1,200,000	-
	2750.30	FIELD MAINT EQUIPMENT - MOTIVE										
		LITTLE DELL DAM - SIDE SLOPE REMOTE CONTROL MOWER	5	4			70,000					
00101		DRAG (BUCKET) MACHINES (1)	5			108,000						
00101		TRACTOR / MOWER	3			120,000						
00601		TRAILER (2)				8,000						
00601		ELECTRIC SALTER				11,000						
00601		SIDE BY SIDE (1)				12,000						
00601		ENCLOSED SNOWMOBILE TRAILER (1)				12,000						
00701		SIDE BY SIDE (1)				15,000						
00801		PLOW TRUCK PARLEY'S TREATMENT PLANT					40,000					
00801		ALUMINUM BOAT (1)				5,000						
00801		SIDE BY SIDE (1)				15,000						
00901		SIDE BY SIDE (1)				15,000						
01701		BACKHOE EXCHANGE PROGRAM				90,000	90,000	90,000	90,000	90,000	90,000	
01701		BACKHOE 4X4					350,000					
01701		HYDROEXCAVATOR										
02301		VARIOUS IMPROVEMENTS						300,000	300,000	300,000	300,000	
						411,000	550,000	390,000	390,000	390,000	390,000	-
	2760.10	PUMP PLANT EQUIPMENT - WIP 2774.10										
0301	51430015	VARIOUS IMPROVEMENTS				100,000	100,000	100,000	100,000	100,000	100,000	
01301		MT. OLY MOTOR CONTROL										
01301		UPPER ELLISON (AIR COOLING UNIT)										
01301	513416320	45TH SOUTH PS (UPGRADE #1 - PUMP, MOTOR, VFD)										
						100,000	100,000	100,000	100,000	100,000	100,000	-
	2760.20	TREATMENT PLANT EQUIPMENT - WIP 2774.10										
00701		REMOVE OR MOVE FIRE HYDRANT	3	3								10,000
00701	5122631	SECURITY FENCE FOR SLUDGE BEDS/BACKWASH TANK	3	3					75,000			
00701	5122632	SECURITY FENCING FOR BACK OF PLANT	3	3					40,000			

**WATER UTILITY
CASH FLOW**

CashFlowWaterCIP2016.xlsx3/3/2015

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	Criticality Rating	Condition Rating	Feet of Pipe Vehicle Replace	FISCAL YEARS						DELAYED
						PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	
00701		FLUORIDE SAMPLE POINT (MOVED FURTHER DOWNSTREAM OF PLANT)	2	2								20,000
00701	5122651	FLOC BUSHING	4	4		30,000	30,000	30,000	30,000			
00701		AUTOMATION/CALL BOX FOR UPPER GATE	2	3			12,000					
00701		GARDEN SHED DOWN BY FILET BUILDINGS (TOOLS AND EQUIPMENT STORAGE)	2	2								20,000
00701		PH METER (ATI) OR NON-REAGENT (6)				23,000						
00701		CHLORINE ANALYZERS NON-REAGENT (7)				34,500						
00701		SOLITAX SETTLED WATER TURBIDIMETERS (2)				15,000						
00701		FERRIC PUMPS WATSON MARLOW (3) 620 (3)				32,000						
00701		#4 FILTER WASTE GATE VALVE REBUILD	4	4		20,000						
00701		HVAC SYSTEM	4	4		25,000						
00701	5122640	PROVIDE A BACKUP BRINE TANK FOR SODIUM HYPOCHLORITE SYSTEM	4	3								15,000
00801		SLUDGE PUMP REPLACEMENT					100,000					
00801		REMOVE OLD ALUM LIFT						25,000				
00801		FLASH MIXERS										50,000
00801	5124529	METER-BOX PAINTING										400,000
00801		REPLACE FLASH MIXERS										60,000
00801	18	BACK-UP WATER SUPPLY FROM CLEARWELL TO HIGH PRESSURE TANK								50,000		
00801		SOLITAX RAW AND SETTLED WATER TURBIDIMETERS (3)				22,000						
00801		DR 6000 ANALYSER				10,000						
00801		SKIMMER PUMP CONTROLS AND SENSORS	4	4		32,000						
00801		UNIT HEATERS	4	4		65,000						
00801		CAMERA UPGRADE DOCS AND FLOC	3	3				20,000				
00801		CAMERA UPGRADE LITTLE DELL	3	3				20,000				
00801	5124508	PARLEY'S TP - REPLACE ALL POST STORAGE TANK HYPO PLUMBING	1	1								10,000
00801	5124509	PARLEY'S TP - REPLACE STAIRS ON MT. DELL DAM	2	2								20,000
00801		REPLACEMENT OF SOLARBEE INTAKE CONDUIT. (2-3 YEARS OUT)				25,000						
00901		FLOC BUSHING	4	4			30,000	30,000	30,000	30,000	30,000	
00901		REPLACE FLOCULATOR VFD'S (8)				26,000						
00901		SOLITAX RAW AND SETTLED WATER TURBIDIMETERS (2)				15,000						
00901		STREAMING CURRENT METER (2)				21,000						
00901		DR6000 ANALYSER				10,000						
00901		PH METER (ATI) OR NON-REAGENT (6)				23,000						
00901		CHLORINE ANALYZERS NON-REAGENT (6)				30,000						
00901		SEISMIC SHUT OFF VALVE FOR GAS LINES	4	3		10,000						
00901		FUEL SYSTEM CONTAINMENT SYSTEM	4	3		20,000						
00901		REPLACE ENTRANCE GATES AT LOWER END OF PLANT										15,000
01301		VARIOUS						200,000	200,000	200,000	200,000	
						488,500	172,000	325,000	375,000	280,000	230,000	620,000
	2760.30	TELEMETRY EQUIPMENT										
00101	51430010	IRRIGATION SCADA SYSTEM - PHASE II										
00201		SNOW MEASUREMENT EQUIPMENT					5,000					
00201		UPGRADE STREAM FLOW MEASUREMENT SITES (2)					10,000					
00201		DATA LOGGER AND TELEMETRY					5,000					
01701		ISSCO FLOW METERS WITH DATA DELIVERY SYSTEM					75,000					
01501	51430015	TELEMETRY IMPROVEMENTS				50,000		50,000	50,000	50,000	50,000	
						50,000	95,000	50,000	50,000	50,000	50,000	-
	2760.50	OFFICE FURNITURE & EQUIPMENT										
01001		CROSS CONNECTION SOFTWARE UPGRADE				40,000						
01601		SERVER TO REPLACE SLCIPUBIRD "DOCUMENT MANAGEMENT"				10,000						
01601		SERVER TO REPLACE SLCIPU "ENGINEERING"				10,000	15,000					
01601		SERVER TO REPLACE WATER "H-I-N DRIVE"				10,000	15,000					
01601		LIDAR -IMAGERY OF SJ JORDAN CANAL					22,000					
02201		COPIER					10,000					
02601		METER READING HARDWARE				30,000						
02801		REMODEL CASHIERS CAGE					12,000					
02901		NEW COPIER -ACCOUNTING				11,000						
02901		OFFICE REMODLE					10,000					
03201		SOFTWARE UPGRADE BILLING SYSTEM				30,000	150,000	30,000	30,000	30,000	30,000	
03201		SHAREPOINT SOFTWARE AND IMPLEMENTATION				30,000						
03201	51440024	BILLING SYSTEM UPGRADE				150,000						
						321,000	234,000	30,000	30,000	30,000	30,000	-
	2760.90	OTHER NON-MOTIVE EQUIPMENT										
00101		DR MOWER (1)	5			6,000						

WATER UTILITY CASH FLOW

CashFlowWaterCIP2016.xlsx3/3/2015

COST CENTER	PROJECT NUMBER	PROJECT DESCRIPTION	Criticality Rating	Condition Rating	Feet of Pipe Vehicle Replace	FISCAL YEARS						DELAYED
						PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	
00101		FLATBED TRAILER					8,000					
01301		SAMPLING SITES IN DISTRIBUTION SYSTEM										150,000
01401		PORTABLE ELECTRIC VALVE OPERATOR	5			7,000						
01401		SCAG RIDING MOWER					13,500					
01701		TRENCH BOXES (6)	5			25,000	25,000					
01701		EMERGENCY PIPING				50,000	50,000	50,000	50,000	50,000	50,000	
01701		LCLEANING NOZZLE AND CUTTER KIT 1/2 INCH					10,200					
02601		HANDHELD METER READING DEVICES				20,000	20,000	20,000	20,000	20,000	20,000	
02801		CHECK SCANNER				10,000						
03201		VARIOUS					50,000	50,000	50,000	50,000	50,000	
						118,000	176,700	120,000	120,000	120,000	120,000	150,000
		TOTAL CAPITAL OUTLAY				\$ 2,099,500	\$ 1,918,400	\$ 2,215,000	\$ 2,265,000	\$ 2,170,000	\$ 2,120,000	\$ 770,000
		TOTAL CAPITAL				\$ 26,076,044	\$ 15,442,200	\$ 19,141,000	\$ 16,026,000	\$ 12,254,000	\$ 12,663,000	\$ 287,552,000
						250,000						
		Criticality Legend:										
		5. Significant number of customers or critical facilities affected										
		4. Some customers affected										
		3. Service restored with repair/redundant means in 8-24 hours										
		2. Moderate - Minimal impact if asset fails										
		1. Low, loss of facility, has no impact if fails										
		Condition Legend:										
		5. Failed or failing. Repair immediate or in 1 year										
		4. Failure expected in 1-5 years. Fix in 1-5 years										
		3. Deteriorating but service not threatened.										
		2. Good										
		1. New or like new										

**SEWER UTILITY
ENTERPRISE FUND
BUDGET SUMMARY
FY 2016-18**

				Rate increase 8%	Rate increase 30%	Rate increase 30%
SOURCES	ACTUAL 2013-14	AMENDED BUDGET 2014-15	PROJECTED ACTUAL 2014-15	PROPOSED BUDGET 2015-16	FORECAST BUDGET 2016-17	FORECAST BUDGET 2017-18
REVENUES						
METERED SALES	\$ 19,433,260	\$ 20,835,360	\$ 20,835,360	\$ 22,502,189	\$ 29,252,845	\$ 38,028,699
INTEREST INCOME	146,994	250,000	250,000	250,000	200,000	200,000
OTHER REVENUES	101,885	255,000	255,000	255,000	255,000	255,000
TOTAL REVENUES	\$ 19,682,139	\$ 21,340,360	\$ 21,340,360	\$ 23,007,189	\$ 29,707,845	\$ 38,483,699
OTHER SOURCES						
IMPACT FEES	699,100	350,000	350,000	350,000	350,000	350,000
GRANTS & OTHER RELATED REVENUES	1,061,202	3,500,000	3,500,000	3,500,000	500,000	500,000
OTHER SOURCES	-	20,000	20,000	20,000	20,000	20,000
BOND PROCEEDS	-	-	-	-	33,495,000	32,480,000
TOTAL OTHER SOURCES	\$ 1,760,302	\$ 3,870,000	\$ 3,870,000	\$ 3,870,000	\$ 34,365,000	\$ 33,350,000
TOTAL SOURCES	\$ 21,442,441	\$ 25,210,360	\$ 25,210,360	\$ 26,877,189	\$ 64,072,845	\$ 71,833,699
EXPENSES & OTHER USES						
EXPENDITURES						
PERSONNEL SERVICES	\$ 7,028,967	\$ 8,507,009	\$ 8,507,009	\$ 8,841,535	\$ 9,018,365	\$ 9,198,733
OPERATING & MAINTENANCE	947,376	1,243,660	1,243,660	1,376,810	1,455,346	1,484,449
TRAVEL & TRAINING	30,361	47,995	47,995	56,095	57,217	58,361
UTILITIES	807,798	844,562	844,562	867,412	884,760	902,453
PROF & CONTRACT SERVICES	1,483,325	2,222,950	2,222,950	1,935,450	1,765,159	1,592,384
DATA PROCESSING	203,041	205,000	205,000	205,000	209,100	213,282
FLEET MAINTENANCE	373,538	462,500	462,500	472,500	481,950	491,589
ADMINISTRATIVE SERVICE FEE	354,396	350,000	350,000	370,000	377,400	384,948
PAYMENT IN LIEU OF TAXES	318,549	319,000	319,000	418,000	426,360	434,887
RISK MANAGEMENT	(44,999)	752,389	752,389	620,000	632,400	645,048
TRANSFERS TO GENERAL FUND	32,111	31,000	31,000	31,000	31,620	32,252
OTHER CHARGES AND SERVICES	(28,823)	25,449	25,449	32,849	33,506	34,172
TOTAL EXPENDITURES	\$ 11,505,640	\$ 15,011,514	\$ 15,011,514	\$ 15,226,651	\$ 15,373,183	\$ 15,472,558
OTHER USES						
CAPITAL OUTLAY	1,018,501	1,611,001	1,611,001	1,468,300	1,278,000	918,000
CAPITAL IMPROVEMENT BUDGET	5,981,447	32,985,890	28,341,500	14,510,200	40,135,400	43,163,900
DEBT SERVICES	4,304,334	3,135,000	3,135,000	3,135,000	5,764,870	8,348,270
TOTAL OTHER USES	\$ 11,304,282	\$ 37,731,891	\$ 33,087,501	\$ 19,113,500	\$ 47,178,270	\$ 52,430,170
TOTAL USES	\$ 22,809,922	\$ 52,743,405	\$ 48,099,015	\$ 34,340,151	\$ 62,551,453	\$ 67,902,728
EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES	\$ (1,367,481)	\$ (27,533,045)	\$ (22,888,655)	\$ (7,462,962)	\$ 1,521,392	\$ 3,930,971
OPERATING CASH BALANCES						
BEGINNING JULY 1	\$ 32,604,224	\$ 31,236,743	\$ 31,236,743	\$ 8,348,088	\$ 885,126	\$ 2,406,518
ENDING JUNE 30	\$ 31,236,743	\$ 3,703,698	\$ 8,348,088	\$ 885,126	\$ 2,406,518	\$ 6,337,489
Cash Reserve Ratio	271%	25%	56%	6%	16%	41%
Cash reserve goal above 10%						

Department of Public Utilities

SEWER UTILITY

TEN YEAR CASH FLOW

FOR FISCAL YEARS 2016-25

	ACTUAL YEAR 2012-2013	ACTUAL YEAR 2013-2014	PROJECTED YEAR 2014-2015	BUDGET YEAR 2015-2016	BUDGET YEAR 2016-2017	BUDGET YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021	BUDGET YEAR 2021-2022	BUDGET YEAR 2022-23	BUDGET YEAR 2023-24	BUDGET YEAR 2024-25
SEWER SALES	\$18,193,106	\$19,433,260	\$20,835,360	\$22,502,189	\$29,252,845	\$38,028,699	\$49,437,309	\$61,796,636	\$67,976,300	\$73,414,404	\$76,350,980	\$79,405,019	\$82,581,220
OTHER INCOME	330,116	101,885	255,000	255,000	255,000	255,000	255,000	255,000	255,000	205,000	205,000	205,000	255,000
INTEREST INCOME	206,706	146,994	250,000	250,000	200,000	200,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
OPERATING INCOME	18,729,928	19,682,139	21,340,360	23,007,189	29,707,845	38,483,699	49,792,309	62,151,636	68,331,300	73,719,404	76,655,980	79,710,019	82,936,220
ADDITIONAL NUTRIENT O&M COSTS (CHEMICAL, POWER, GAS, BIOSOLIDS DISPOSAL)					0	0	(3,000,000)	(4,000,000)	(4,120,000)	(4,243,600)	(4,370,908)	(4,502,035)	(4,637,096)
OPERATING EXPENSES	(12,673,410)	(11,505,640)	(15,011,514)	(15,226,651)	(15,373,183)	(15,472,558)	(15,782,011)	(16,097,644)	(16,580,573)	(17,077,991)	(17,590,330)	(18,118,040)	(18,661,581)
NET INCOME EXCLUDING DEP.	6,056,518	8,176,499	6,328,846	7,780,538	14,334,662	23,011,141	31,010,298	42,053,992	51,750,727	56,641,413	59,065,650	61,591,979	59,637,542
IMPACT FEES	1,224,995	699,100	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000	350,000
BOND PROCEEDS	23,647,925	0		0	33,495,000	32,480,000	33,495,000	35,525,000	117,740,000	0	0	0	0
BOND ISSUE COSTS	0	0	0	0	(495,000)	(480,000)	(495,000)	(525,000)	(1,740,000)	0	0	0	0
OTHER CONTRIBUTIONS	4,404,306	1,061,202	3,520,000	3,520,000	520,000	520,000	520,000	520,000	520,000	520,000	520,000	520,000	520,000
CAPITAL OUTLAY	(1,254,740)	(1,018,501)	(1,611,001)	(1,468,300)	(1,278,000)	(918,000)	(918,000)	(918,000)	(1,108,000)	(1,830,000)	(930,000)	(920,000)	(920,000)
ADDITIONAL DEBT SERVICE		0		0	(2,134,870)	(4,733,270)	(7,412,870)	(10,254,870)	(19,674,070)	(17,918,870)	(17,918,870)	(17,918,870)	(17,918,870)
DEBT SERVICE	(20,228,654)	(4,304,334)	(3,135,000)	(3,135,000)	(3,135,000)	(3,135,000)	(3,138,000)	(3,138,000)	(3,138,000)	(2,960,000)	(2,960,000)	(2,960,000)	(3,138,000)
OTHER INCOME & EXPENSE	7,793,832	(3,562,533)	(876,001)	(733,300)	27,322,130	24,083,730	22,401,130	21,559,130	92,949,930	(21,838,870)	(20,938,870)	(20,928,870)	(21,106,870)
AVAILABLE FOR CAPITAL	13,850,350	4,613,966	5,452,845	7,047,238	41,656,792	47,094,871	53,411,428	63,613,122	144,700,657	34,802,543	38,126,780	40,663,109	38,530,672
CAPITAL IMPROVEMENTS	(11,836,515)	(5,981,447)	(28,341,500)	(14,510,200)	(40,135,400)	(43,163,900)	(42,000,617)	(44,160,236)	(125,577,843)	(54,393,528)	(53,857,384)	(19,653,005)	(70,638,490)
CASH INCREASE/(DECREASE)	2,013,835	(1,367,481)	(22,888,655)	(7,462,962)	1,521,392	3,930,971	11,410,811	19,452,886	19,122,814	(19,590,984)	(15,730,604)	21,010,104	(32,107,818)
BEGINING CASH BALANCE	30,590,389	32,604,224	31,236,743	8,348,088	885,126	2,406,518	6,337,489	17,748,300	37,201,186	56,324,001	36,733,016	21,002,412	42,012,516
CASH INCREASE/(DECREASE)	2,013,835	(1,367,481)	(22,888,655)	(7,462,962)	1,521,392	3,930,971	11,410,811	19,452,886	19,122,814	(19,590,984)	(15,730,604)	21,010,104	(32,107,818)
Less: Cash for Impact related growth		0											
ENDING BALANCES	\$32,604,224	\$31,236,743	\$8,348,088	\$885,126	\$2,406,518	\$6,337,489	\$17,748,300	\$37,201,186	\$56,324,001	\$36,733,016	\$21,002,412	\$42,012,516	\$9,904,698
RATE CHANGE	4.00%	6.00%	8.00%	8.00%	30.00%	30.00%	30.00%	25.00%	10.00%	8.00%	4.00%	4.00%	4.00%
ANNUAL RESIDENTIAL SEWER													
BILL (1990=\$76.80)	138.24	146.88	158.40	170.88	222.14	288.79	375.42	469.28	516.21	557.50	579.80	603.00	627.12
MONTHLY BILL	11.52	12.24	13.20	14.24	18.51	24.07	31.29	39.11	43.02	46.46	48.32	50.25	52.26
MONTNLY BILL INCREASE	0.48	0.72	0.96	1.04	4.27	5.55	7.22	7.82	3.91	3.44	1.86	1.93	2.01
Cash Reserve Ratio	257%	271%	56%	6%	16%	41%	112%	231%	340%	215%	119%	232%	53%
Impact Fee per ERU	500	500	500	500	500	500	500	500	500	500	500	500	500
Number of ERU connections	700	1,398	700	700	700	700	700	700	700	700	700	700	700
Debt Service Coverage	0.30	1.90	2.02	2.48	2.72	2.92	2.94	3.14	2.27	2.71	2.83	2.95	2.83

Department of Public Utilities
SEWER CAPITAL IMPROVEMENT PROJECTS
TEN YEAR BUDGET
FOR FISCAL YEARS 2016-25

COST CENTER	PROJECT NUMBERS		CRITICALITY RATING	CONDITION RATING	FEET OF PIPE	FISCAL YEARS											
		PAST YEAR 2014-15				BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	PROJECTS DELAYED	
		PROJECT DESCRIPTION															
	271010	LAND															
10401		LAND EASEMENT FOR 500 SOUTH SEWER LINE							500,000								
10401		LAND EASEMENT FOR 700 SOUTH SEWER LINE							500,000								
10401		LAND EASEMENT FOR 500 SOUTH TO ORANGE STREET								500,000							
11201		ACQUIRE 5 ACRES OF LAND FOR INFLUENT SCREENING BUILDING				230,000											
						230,000	0	0	1,000,000	500,000	0	0	0	0	0	0	0
11201	2772.10	MAINTENANCE & REPAIR SHOPS - 2720.10															
11201	524905223	REPLACE NATURAL GAS LINE				30,000											
10401	52461	VACTOR BARN (plus site improvements)				550,000											
11201	524905270	REROOF OF DIGESTER CONTROL, GAS BOOSTER, TFPS, AND NO 2 WATER PUMP HOUS				350,000											
10401	52462	LIFT STATION STORAGE FACILITY W/ SITE IMPROVEMENTS							300,000								
11201		HAV SYSTEM FOR LAB				16,000											
11201	524905269	SLCWRF ANCILLARY BUILDINGS (LAB, ADMINISTRATION, PRETREATMENT)													0		20,000,000
						946,000	0	0	0	300,000	0	0	0	0	0	0	20,000,000
10101	2772.10	LIFT STATIONS - 2720.05															
10101	52490758	PUMP REPLACEMENT (VARIOUS)				5,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	
10101	52490759	AIRPORT LIFT STATION - 40TH W UPGRADE -- WS MP	5	5									2,000,000				
10101		700 SOUTH LIFT STATION UPGRADE -- WS MP	4	4						100,000	1,500,000						
10101	52490772	AIRPORT DE-ICING LIFT STATION #4 (2200 W 1950 N)	4	5		150,000											
10101		AIRPORT DE-ICING LIFT STATION #3 (3000 W 2200 N)	4	5													
10101		AIRPORT DE-ICING LIFT STATION #2 (3800 W 2200 N)	4	5				100,000									
10101		AIRPORT DE-ICING LIFT STATION #1 (3800 W 2200 N)	4	5					100,000								
10101		1700 N REDWOOD ROAD LIFT STATION WET WELL IMPROVEME	4	4						150,000							
10101		INDUSTRIAL LIFT STATION PIPING UPGRADES	3	4				40,000	400,000								
10101		CENTENNIAL LIFT STATION WET WELL IMPROVEMENTS	2	4							100,000						
10101		NEW ROSE PARK LIFT STATION REPLACEMENT	3	3								675,000					
10101		SOUTH LIFT STATION REPLACEMENT	3	3									600,000				
10101		BILLY MITCHELL LIFT STATION WET WELL IMPROVEMENTS	3	3										100,000			
10101		WESTPOINTE LIFT STATION WET WELL IMPROVEMENTS	2	3										100,000			
10101		CANNON LIFT STATION WET WELL IMPROVEMENTS	2	3										100,000			
10101		900 N LIFT STATION WET WELL IMPROVEMENTS	1	3											100,000		
10101		PIONEER LIFT STATION WET WELL IMPROVEMENTS	2	3												103,500	
10101		AIRPORT FUEL FARM WET WELL IMPROVEMENTS	3	3													113,500
		500 WEST LIFT STATION WET WELL IMPROVEMENTS	3	3													100,000
						155,000	150,000	190,000	550,000	300,000	1,650,000	725,000	2,650,000	350,000	253,500	263,500	0
11201	2772.10	TREATMENT PLANTS - 2720.30															
11201	524905228	NETWORK UPGRADE WATER REC PLANT				181,000											
11201	524905236	BIO SOLIDS UPGRADE	3			612,000											
11201	524905258	WAS MECHANICAL THICKENING----BOND	4	4		7,000,000											
11201	524905215	ODOR CONTROL AND H2S MIDIGATION PROJECT	3	5		250,000											
11201	524905263	WWTP FACILITIES CAPACITY EVALUATION	3	4		65,000											
11201	524905264	REPLACEMENT OF HOT WATER PIPING IN THE TUNNELS	5	5		231,000											
11201	524905265	REPLACE 700 FEET OF 2 INCH SCHEDULE 80 WATER LINE	4	4		27,000											
11201	524905266	REPLACE FIVE CHLORINATORS AND TWO CHLORINE CONTAINERS	4	4		60,000											
11201	524905242	WATER REC PLANT DIGESTER COVERS				323,000											
11201	524905283	NETWORK UPGRADE PHASE II	5	5		15,000											
11201	524905284	DATA ENTRY AND REPORTING SYSTEM	5	5													
11201	524905286	HUMAN MACHINE INTEGRATION UPGRADE	5	5													
11201	524905287	ARC FLASH STUDY AND IMPLEMENTATION	5	5		250,000											
11201	524905301	REPLACE 12' DIAMETER X 32' PRE-SEDIMENTATION GRIT CONVEYOR				165,000											
11201	524905302	REPLACEMENT OF EXISTING DIGESTER GAS FLARES				400,000											
11201	524905303	RETUBE EXISTING STEAM BOILER	5	5		50,000											
11201	524905304	UPGRADE EXISTING SECURITY CAMERAS				231,500											
11201	524905305	PHASE III - REPLACE EXISTING PLC'S AT THE INFLENT PUMP	5	5		1,000,000											
11201	524905272	EXPAND INFLUENT SCREENS AT THE INFLUENT PUMP STATION	5	4		1,510,000	500,000	26,500,000									
11201	524905277	INFLUENT PUMP STATION BUILDING REHAB	3			1,500,000											
11201	524905278	AUTOMATED AIR CONTROL FOR THE AERATION BASIN	3														1,000,000
11201	524905280	REPLACEMENT OF MCC AND SWITCHGEAR EQUIPMENT PRE-SEDIMENTATION				1,625,000											
11201	524905281	WASTE HEAT RECOVERY FROM PLANT EFFLUENT	3														3,000,000

Department of Public Utilities
SEWER CAPITAL IMPROVEMENT PROJECTS
TEN YEAR BUDGET
FOR FISCAL YEARS 2016-25

COST CENTER	PROJECT NUMBERS		CRITICALITY RATING	CONDITON RATING	FEET OF PIPE	FISCAL YEARS											
		PAST YEAR 2014-15				BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	PROJECTS DELAYED	
		PROJECT DESCRIPTION															
11201	524905309	COMPOSTING FACILITY	1														33,300,000
11201		CHLORINE ALARM SYSTEM				150,000	50,000										
11201		REPLACEMENT OF NORTH / SOUTH DRYING BED VALVE VAULT	5	5		72,000											
11201		REPLACEMENT INFLUENT GATES ON THE GRAVITY THICKENER	5	5		95,000											
11201		UPGRADE EMERGENCY GENERATORS AT THE PUMP STATION	3	4		200,000	1,900,000										
11201		REPLACE EXTERIOR WINDOWS AND DOORS IN THE LAB	4	5		44,000											
11201		REPAIR DRYING BED GATES (7 & 8)	5	5		40,000											
11201		INSTALL REDUNDANT NETWORK SWITCHES AND WIFI HUBS	2	5			145,000										
11201		TF / PE PUMP STATION						1,200,000	12,000,000								
11201		TRICKLING FILTER REHAB						2,000,000	2,000,000								
11201		REPLACE INFLUENT PUMPS 1 AND 4									3,190,000						
11201		REPLACE INFLUENT PUMPS 2 AND 3										3,380,000					
11201		5TH PRIMARY CLARIFIER										5,360,000					
11201		DESIGN/VARIOUS				400,000											
11201	524905237	DISINFECTION UPGRADE TO 56 MGD / ALTERNATE DISINFECTION											16,350,000				
11201		WATER REUSE DISTRUBUTION SYSTEM												10,000,000			
11201	51360052	WATER REUSE														27,000,000	
11201		CAPITAL ASSET REHABILITATION AND UPGRADES						1,330,000	1,369,900	1,410,997	1,453,327	1,496,927	1,541,835	1,588,090	1,635,732	1,684,804	
11201		ELECTRICAL UPGRADES							1,854,000	1,909,620	1,966,909	2,025,916	2,086,693	2,149,294	2,213,773	2,280,186	
NUTRIENT PROJECTS																	
Phase 1---PHOSPORUS RULE																	
11201		NUTRIENT PROJECT PRE-DESIGN - (Option 1 & 2)					800,000										
11201	524905271	BIOSOLIDS MECHANICAL DEWATERING (Option 1 & 2)						1,800,000	18,000,000								
11201	524905319	CHEMICAL STORAGE AND FEED (Option 1 & 2)							540,000	5,400,000							
11201		SECONDARY CLARIFIER WITH RAS PUMPS (Option 1 & 2)								930,000	9,270,000						
PHASE 2--NITROGEN RULE 2025																	
11201	524905312	AERATION BASINS (4) (Option 2)									8,180,000	81,790,000					
11201		AERATION BASINS (1) (Option 2)											27,870,000				
11201	524905315	BLOWER BUILDING (Option 2)									1,400,000	13,970,000					
11201		PHOSPHORUS RECOVERY (Option 2)										20,400,000				30,160,000	
11201	524905320	DEMOLITION (TRICKLING FILTERS & TFPS) (Option 2)														3,700,000	
PHASE 3																	
11201	524905308	TERTIARY FILTERS															111,150,000
TOTAL NUTRIENTS								1,800,000	18,540,000	6,330,000	18,850,000	95,760,000	20,400,000	27,870,000	0	33,860,000	111,150,000
		TOTAL WATER RECLAMATION FACILITY				16,496,500	3,645,000	32,830,000	35,763,900	9,650,617	25,460,236	99,282,843	32,768,528	47,957,384	13,849,505	64,824,990	148,450,000
	2773.10	COLLECTION LINES - 2730.14															
		CITY, COUNTY, STATE AND MISC. DRIVEN PROJECTS															
10401	525002560	700 SOUTH REHAB PHASE 5- 4600 TO 5300 W JOB NO. 102221	3	2	2700		200,000										
10401	525002561	SUGAR HOUSE STREET CAR (HIGHLAND DRIVE FROM STRINGHAM & WILMINGTON - STRINGHAM & SIMPSON - 2					100,000										
10401	52520017	MISC. PUBLIC SERVICE PROJECTS				200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	
						200,000	500,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	0
		OTHER PROJECTS															
10401	52520020	EMERGENCIES -CONTRIBUTIONS BY DEVELOPERS				50,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	
10401	52520023	MISC SEWER MAINS 2014/15				270,000											
10401	5250025	LARGE DIAMETER TRUNK CLEANING				50,000											
10401		700 NORTH I-15 BYPASS								200,000							
10401		POINT REPAIRS IN SUPPORT OF CIPP PROGRAM (VARIOUS LOCATIONS)				569,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	
10401		MANHOLE REHAB PROGRAM (VARIOUS LOCATIONS)				225,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	
10401		EMERGENCY ON-CALL PROGRAM (VARIOUS LOCATIONS)				400,500	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	
						1,564,500	1,350,000	1,350,000	1,350,000	1,550,000	1,350,000	1,350,000	1,350,000	1,350,000	1,350,000	1,350,000	0
		REPLACE VARIOUS COLLECTION LINES															
		1% PER YEAR SEWER REHABILITATION/SYSTEM RENEWAL (VARIOUS LOCATION						2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	3,000,000	4,000,000	4,000,000	4,000,000	

Department of Public Utilities

SEWER CAPITAL IMPROVEMENT PROJECTS

TEN YEAR BUDGET

FOR FISCAL YEARS 2016-25

COST CENTER	PROJECT NUMBERS		CRITICALITY RATING	CONDITION RATING	FEET OF PIPE	FISCAL YEARS											
		PROJECT DESCRIPTION				PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	PROJECTS DELAYED
10401	525002376	1800 NORTH BECK STREET TO THE PRETREATMENT PLANT				500,000											
10401	525002679	1300 SOUTH SANITARY SEWER REHABILITATION				320,000											
10401	525001707	GLADIOLA STREET				80,000											
10401	525002599	WILMINGTON OPEN CUT-YUMA TO 2100 EAST				200,000											
10401	525002629	REDWOOD ROAD CALIFORNIA AVE NORTH TO PAXTON AVE				45,000											
10401	525002650	South Temple from 1380 East to Virginia - U to T Street - S to R Street			1793	50,000											
10401	525002498	Garfiled Ave - 1500 E to 1900 E			3071	75,000											
10401	525002551	2100 S State Street to 360 E			2120	10,000											
10401	525002628	4800 West Sanitary Sewer Rehabilitation			3200	640,000											
10401	525002630	California Ave Redwood Road on California to Utah Street				169,500											
10401	525002525	800 S Sewer Rehab from 1100 E to 1200 E (MH 03201 to 03206)	3	5	800												
10401	525002635	Lincoln Street from 2100 S to 2050 S (MH 22340 to 02798)	3	5	390												
10401	525002636	Main St 635 to 700 S (West Side) (MH 01571 to 01574)	3	5	790												
10401	525002638	South Temple Sewer Rehab from 340 to 290 West (MH 20040 to 00640)	3	5	470												
10401	525002639	South TempleSewer Rehab from West Temple to Main Street MH0033	3	5	675												
10401	525002641	Main St Sewer Rehab from 700 (NWC) to 800 S (SWC) (MH 21461to	3	5	875												
10401	525002642	West Temple Sewer Rehab from 300 S (SWC) to 400 S (NWC) (MH 0	3	5	675												
10401	525002643	Perry Ave Sewer Rehab from 1500 E to Virginia St (MH 22010 to 0181	3	5	1250												
10401	525002644	U Street Sewer Rehab from 300 North to 1st Ave (MH 21113 to 00888	3	5	2020												
10401	525002645	S Street Sewer Rehab from South Temple to 3rd Ave (MH 00913 to 00	3	5	1200												
10401	525002646	Second Ave Sewer Rehab from T St to S St (MH00913 to 00624)	3	5	353												
10401	525002647	First Ave Sewer Rehab from T St to S St (MH 21092 to 00886)	3	5	369												
10401	525002649	R St Sewer Rehab South Temple to 3rd Ave (MH 00885 to 00623)	3	5	1250												
10401	525002651	First Ave Sewer Rehab from 940 to 900 E (MH 21088 to 00882)	3	5	352												
10401	525002652	K St Sewer Rehab from 2nd to 1st Ave (MH 00900 to 00880)	3	5	425												
10401	525002653	L St Sewer Rehab from South Temple to 190 North (MH 20799 to 005	3	5	1595												
10401	525002654	J St Sewer Rahab 41 to 5 North (MH 00878 to 00506)	3	5	293												
10401	525002656	O St Sewer Rehab from 1st Ave to South Temple (MH 00620 to 00910	3	5	1210												
10401	525002657	Third Ave Sewer Rehab from G to I St (MH 00815 to 00811)	3	5	770												
10401	525002659	Chandler Dr Sewer Rehab from 1490 to 1510 East (MH22070 to 2366	3	5	240												
10401	525002660	100 S Sewer Rehab frtom 1000 to 1100 E (MH 00499 to 21838)	3	5	880												
10401	525002662	300 E Sewer Rehab from 600 to 700 S (MH 21405 to 01366)	3	5	685												
10401	525002663	Major St Sewer Rehab from 1300 to 1425 S (MH 02192 to 02344)	3	5	1063												
10401	525002664	South Temple Sewer Rehab from 1090 to 1050 E (MH 00602 to 00588	3	5	1590												
10401	525002668	Virginia St Sewer Rehab from Federal Dr to Crestline Cir (MH 22000 to	3	5	230												
10401	525002669	18th Ave Sewer Rehab from Hilltop Road to 707 E (MH 26643 to 2597	3	5	904												
10401	525002670	Hilltop Rd Sewer Rehab from 17th to 16th Ave (MH 25979 to 25977)	3	5	377												
10401	525002671	17th Ave Sewer Rehab from 760 to 830 E (MH 26644 to 26648)	3	5	684												
10401	525002448	700 South - Main Street to State Street (South Side) (MH 01583 to 214	3	5	670												
10401	525002453	700 South - Main Street to 300 West (North Side)	3	5	2335												
10401	525002491	Center Street Sewer Rehab from 500 N to Apricot Avenue (MH 01008	3	5	1125												
10401		Emigration Canyon Road Sewer Rehab from 2570 East to 3000 East (3	5	3535												
10401	525002553	Stratford Ave Sewer Rehab from 800 to 880 East (MH 24358 to 24324	3	4	630			20,600									
10401	525002667	1700 East Sewer Rehab from 1300 South to Harrison (MH 22872 to 22	3	4	720			26,200									
10401	525002526	100 South Sewer Rehab from 800 to 900 East (MH 00667 to 00871)	3	4	710			24,800									
10401	525002529	1300 East Sewer Rehab from 1785 to 1850 East (MH 23312 to 02831	3	4	300			26,000									
10401	525002637	Main Street Sewer Rehab from 600 to 700 South (East Side) (MH 0158	3	4	710			25,300									
10401	525002648	Glendale St Sewer Rehab from 600 to 645 S (MH 03745 to 03737)	3	4	420			16,400									
10401	525002655	Third Ave Sewer Rehab from 900 to 945 East (MH 21102 to 00909)	3	4	363			13,700									
10401	525002658	Virginia Street Sewer Rehab from 367 to 385 North (MH 22060 to 2206	3	4	314			12,400									
		MASTER PLAN PROJECTS															
10401	525002576	ORANGE STREET NO TEMPLE TO 5TH SOUTH PHASE II---BOND	5	5	3,500	3,600,000											
10401	525002631	ORANGE STREET 5TH SOUTH TO INDIANA & I-80 RAMP - PHASE	5	5	3,045												
10401	525002631	ORANGE STREET INDIANA TO CALIFORNIA AVE - PHASE IV	5	5	4,626							5,705,000					
10401	525002423	1500 SOUTH - 2700 WEST TO REDWOOD ROAD CONSTRUCTION	4	5	5,200							8,000,000					
10401	525002574	GLADIOLA STREET INSPECTION & REHABILITATION	4	4	6,610				500,000			5,000,000					
10401	525002524	500 SOUTH INTERCEPTOR - ORANGE STREET - 1000 W - DESIGN	5	5	6,800	50,000		1,600,000		14,000,000							
10401	525002507	3230 WEST FROM 1820 S TO 1670 S	3	4	1,070							2,515,000					
10401		NORTH TEMPLE FROM AIRPORT TO ORANGE STREET -- WS MP	4	4	9,000								14,425,000				
10401		700 S FROM 4650 W to 3400 W -- WS MP	4	4	8,800			1,300,000		13,000,000							
10401		500 S FROM 3200 W TO ORANGE STREET -- WS MP	4	4	7,950				1,300,000		13,000,000						

Department of Public Utilities
SEWER CAPITAL IMPROVEMENT PROJECTS
TEN YEAR BUDGET
FOR FISCAL YEARS 2016-25

COST CENTER	PROJECT NUMBERS		CRITICALITY RATING	CONDITION RATING	FEET OF PIPE	FISCAL YEARS											
		PROJECT DESCRIPTION				PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	PROJECTS DELAYED
10401	525002528	8 PERMANENT FLOW MONITORS PER MASTER PLAN					200,000					300,000					
						5,739,500	5,865,200	5,565,400	4,300,000	29,500,000	15,500,000	24,020,000	17,425,000	4,000,000	4,000,000	4,000,000	0
		TOTAL COLLECTION LINES				7,504,000	7,715,200	7,115,400	5,850,000	31,250,000	17,050,000	25,570,000	18,975,000	5,550,000	5,550,000	5,550,000	0
	2730.20	LANDSCAPING - WIP 52-10401-2773.10															
10401		NORTHWEST OIL DRAIN CANAL SEGMENT				3,000,000	3,000,000										
11201	524905219	ASPHALTING				10,000											
						3,010,000	3,000,000	0	0	0	0	0	0	0	0	0	0
		TOTAL CAPITAL IMPROVEMENTS				28,341,500	14,510,200	40,135,400	43,163,900	42,000,617	44,160,236	125,577,843	54,393,528	53,857,384	19,653,005	70,638,490	168,450,000
	2750.10	AUTOMOBILES & TRUCKS															
10601		1/4 TON COLORADO 4X4 EXT CAB			36850		27,000										
10601		1/2 TON PICKUP			3419		22,500										
01401		TRUCK 4X4 LONG BED (REPLACES 33590)				32,000											
12301		VARIOUS						100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	
						32,000	49,500	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	0
	2750.30	FIELD MAINTENANCE EQUIP.															
10601		HP JETTER TRUCK				310,000											
10601		VACTOR						385,000									
10601		BACKHOE EXCHANGE				8,000		8,000	8,000	8,000	8,000	10,000	10,000	10,000	10,000	10,000	
10601		PUMP TRUCK - LARGE DIAMETER PIPE CLEANING MARCHINE			NEW		781,000						900,000				
10601		SEMI-TRACTOR -PIPE CLEANING			NEW		120,000										
10601		LARGE DIAMETER PIPE CLEANING EQUIPMENT					92,500										
10101		LANDSCAPER TRAILER				7,000											
10801		REHAB OLD CCTV VAN				145,000											
10801		REHAB OLD CCTV VAN				145,000											
11100		REPLACE ELECTRIC UTILITY CART					11,000										
10801		CCTV VAN				295,000											
10601		VARIOUS						100,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	
						910,000	1,004,500	493,000	408,000	408,000	408,000	410,000	1,310,000	410,000	410,000	410,000	0
	2760.20	TREATMENT PLANT EQUIPMENT - WIP 2774.10															
10101		EXTRA PUMP FOR 700 SOUTH LIFT STATION															
11101		LACHAT/HACH 2-CHANNEL FIA + IC CONFIGURATION					58,000										
11101		XPE205 METTLER TOLEDO ANALYTICAL BALANCE					14,000										
11101		THERMO SCIENTIFIC MUFFLE FURNACE					7,300										
12201		TRUCK SCALE						350,000									
12201		COMPRESSORS AND BLOWERS				70,000		70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	
12201		PUMPS				150,000	75,000	75,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	
11201		RECOATING THE 24 INCH AIR LINE	4	3		30,000											
11201		CHANGE OUT OF OIL IN 3 FACILITY TRANSFORMERS	5	4		50,000											
						300,000	154,300	495,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	220,000	0
	2760.30	TELEMETERING EQUIPMENT															
11201	52540038	TELEMETERING UPGRADE - REPLACE										10,000	10,000	10,000			
10101	524905268	SCADA SYSTEM REPLACE				10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	
						10,000	10,000	10,000	10,000	10,000	10,000	20,000	20,000	20,000	10,000	10,000	0
	2760.50	OFFICE FURNITURE & EQUIPMENT															
12201		SOFTWARE UPGRADE / PRETREATMENT PROGRAM				32,501	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	
						32,501	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	0
	2760.90	OTHER NON-MOTIVE EQUIPMENT															
12401		AUTO SAMPLERS															
10101		60 KW GENERATOR															
10601		VENTURI CLEANING NOZZLE															

Department of Public Utilities
SEWER CAPITAL IMPROVEMENT PROJECTS
TEN YEAR BUDGET
FOR FISCAL YEARS 2016-25

COST CENTER	PROJECT NUMBERS		CRITICALITY RATING	CONDITION RATING	FEET OF PIPE	FISCAL YEARS											
		PROJECT DESCRIPTION				PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	PROJECTS DELAYED
12201		STATIONARY SAMPLER W/ENCLOSURE				10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	
10601		TOW ALONG CEMENT MIXER				9,000											
10101		PUMP REBUILD KIT				6,000											
10101		MUFFIN MONSTER FOR CONCORD LIFT STATION				35,000											
10101		200 KW GENERATOR				106,000											
10101		SNOW PLOW				8,500											
10601		MILLING HEAD ROOT CUTTER				13,000											
10601		TRUCK MOUNTED FALL PREVENTION (3)				28,500											
10601		VAPO ROOTER (TRUCK MOUNTED)				38,000											
10601		2 4-INCH HYDRAULIC PUMPS WITH POWER PACKS				65,000											
10601		ROLL OFF TRAILER LG DIAM. PIPE CLEANING					55,000										
10601		NOZZEL PACKAGE LG DIAM. PIPE CLEANING					13,000										
10601		ROLL OFF BOXES LG DIAM. PIPE CLEANING					33,000										
10601		REPLACEMENT STEAM PRESSURE WASHER				7,500											
10601		COMPACTION WHEEL FOR EXCAVATOR					11,000										
10601		HYDRAULIC DOWNHOLE PUMP					8,000										
10601		TRAILER FOR SPOTLINER AND INSPECTION					16,000										
10601		4" CAMERA CRAWLER					14,000										
10601		ROVVER X SYSTEM					70,000										
12201		UPGRADE LAB ANALYTICLA EQUIPMENT						150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	
12401		VARIOUS NON-MOTIVE EQUIPMENT						150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	
						326,500	230,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	0
		TOTAL CAPITAL OUTLAY				1,611,001	1,468,300	1,278,000	918,000	918,000	918,000	930,000	1,830,000	930,000	920,000	920,000	0
		GRAND TOTAL				\$29,952,501	\$15,978,500	\$41,413,400	\$44,081,900	\$42,918,617	\$45,078,236	\$126,507,843	\$56,223,528	\$54,787,384	\$20,573,005	\$71,558,490	\$168,450,000
		Criticality Legend:															
		5. Significant number of customers or critical facilities affected															
		4. Some customers affected															
		3. Service restored with repair/redundant means in 8-24 hours															
		2. Moderate -Minimal impact if asset fails															
		1. Low, loss of facility, has no impact if fails															
		Condition Legend:															
		5. Failed or failing. Repair immediate or in 1 year															
		4. Failure expected in 1-5 years. Fix in 1-5 years															
		3. Deteriorating but service not threatened.															
		2. Good															
		1. New or like new															

**STORMWATER UTILITY
ENTERPRISE FUND
BUDGET SUMMARY
FY 2016-2018**

				Rate increase 0%	Rate increase 0%	Rate increase 0%
<u>SOURCES</u>	ACTUAL 2013-14	AMENDED BUDGET 2014-15	PROJECTED ACTUAL 2014-15	PROPOSED BUDGET 2015-16	FORECAST BUDGET 2016-17	FORECAST BUDGET 2017-18
REVENUES						
METERED SALES	\$ 8,126,436	\$ 8,050,000	\$ 8,050,000	\$ 8,050,000	\$ 8,050,000	\$ 8,050,000
INTEREST INCOME	35,462	100,000	100,000	100,000	100,000	100,000
OTHER REVENUES	25,621	1,000	1,000	1,000	1,000	1,000
TOTAL REVENUES	\$ 8,187,519	\$ 8,151,000	\$ 8,151,000	\$ 8,151,000	\$ 8,151,000	\$ 8,151,000
OTHER SOURCES						
GRANTS & OTHER RELATED REVENUES	189,461	516,000	516,000	516,000	516,000	516,000
COUNTY FLOOD CONTROL	-	-	-	-	-	-
IMPACT FEES	240,945	200,000	200,000	200,000	200,000	200,000
BOND PROCEEDS	-	-	-	-	-	-
TOTAL OTHER SOURCES	\$ 430,406	\$ 716,000	\$ 716,000	\$ 716,000	\$ 716,000	\$ 716,000
TOTAL SOURCES	\$ 8,617,925	\$ 8,867,000	\$ 8,867,000	\$ 8,867,000	\$ 8,867,000	\$ 8,867,000
EXPENSES & OTHER USES						
EXPENDITURES						
PERSONNEL SERVICES	\$ 1,843,754	\$ 2,244,986	\$ 2,244,986	\$ 2,290,764	\$ 2,336,581	\$ 2,383,312
OPERATING & MAINTENANCE	122,973	134,850	134,850	147,500	150,450	153,457
TRAVEL & TRAINING	3,697	8,695	8,695	10,195	10,399	10,606
UTILITIES	193,904	112,079	112,079	112,079	114,320	116,606
PROF & CONTRACT SERVICES	514,737	723,250	723,250	1,114,000	1,131,780	1,045,877
STREET SWEEPING	821,633	821,508	821,508	821,508	837,938	854,697
DATA PROCESSING	172,959	170,000	170,000	170,000	173,400	176,868
FLEET MAINTENANCE	196,818	285,000	285,000	285,000	290,700	296,514
ADMINISTRATIVE SERVICE FEE	116,809	220,000	220,000	220,000	224,400	228,888
PAYMENT IN LIEU OF TAXES	215,946	216,000	216,000	216,000	220,320	224,726
RISK MANAGEMENT	120,613	66,200	66,200	66,200	67,524	68,875
OTHER CHARGES AND SERVICES	87,065	31,702	31,702	35,152	35,857	36,571
TOTAL EXPENDITURES	\$ 4,410,908	\$ 5,034,270	\$ 5,034,270	\$ 5,488,398	\$ 5,593,669	\$ 5,596,997
OTHER USES						
CAPITAL OUTLAY	70,672	563,000	563,000	34,500	166,000	460,000
CAPITAL IMPROVEMENT BUDGET	3,698,039	8,411,008	5,243,617	5,527,500	2,737,000	1,643,000
DEBT SERVICES	1,370,982	1,020,000	1,020,000	1,020,000	1,020,000	1,020,000
TOTAL OTHER USES	\$ 5,139,693	\$ 9,994,008	\$ 6,826,617	\$ 6,582,000	\$ 3,923,000	\$ 3,123,000
TOTAL USES	\$ 9,550,601	\$ 15,028,278	\$ 11,860,887	\$ 12,070,398	\$ 9,516,669	\$ 8,719,997
EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES	\$ (932,676)	\$ (6,161,278)	\$ (2,993,887)	\$ (3,203,398)	\$ (649,669)	\$ 147,003
OPERATING CASH BALANCES						
BEGINNING JULY 1	\$ 8,117,076	\$ 7,184,400	\$ 7,184,400	\$ 4,190,513	\$ 987,115	\$ 337,446
ENDING JUNE 30	\$ 7,184,400	\$ 1,023,122	\$ 4,190,513	\$ 987,115	\$ 337,446	\$ 484,449
Cash Reserve Ratio	163%	20%	83%	18%	6%	9%
Cash reserve goal above 10%						

STORMWATER UTILITY CASH FLOW

	ACTUAL YEAR 2012-2013	ACTUAL YEAR 2013-2014	PROJECTED YEAR 2014-2015	BUDGET YEAR 2015-2016	BUDGET YEAR 2016-2017	BUDGET YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020
STORMWATER CHARGES	8,136,982	8,126,436	8,050,000	8,050,000	8,050,000	8,050,000	8,050,000	8,050,000
OTHER INCOME	1,648	25,621	1,000	1,000	1,000	1,000	1,000	1,000
INTEREST INCOME	40,536	35,462	100,000	100,000	100,000	100,000	100,000	100,000
OPERATING INCOME	8,179,166	8,187,519	8,151,000	8,151,000	8,151,000	8,151,000	8,151,000	8,151,000
OPERATING EXPENDITURES	(4,585,011)	(4,410,908)	(5,034,270)	(5,488,398)	(5,593,669)	(5,596,997)	(5,704,434)	(5,814,025)
NET INCOME EXCLUDING DEP.	3,594,155	3,776,611	3,116,730	2,662,602	2,557,331	2,554,003	2,446,566	2,336,975
IMPACT FEES	142,898	240,945	200,000	200,000	200,000	200,000	200,000	200,000
OTHER RECEIPTS/ BOND PROCEEDS	4,739,274		0					
OTHER CONTRIBUTIONS	23,115	189,461	516,000	516,000	516,000	516,000	516,000	516,000
CAPITAL OUTLAY	(537,291)	(70,672)	(563,000)	(34,500)	(166,000)	(460,000)	(166,000)	(460,000)
DEBT SERVICE (NEW)		0	0	0	0	0	0	0
DEBT SERVICE	(6,417,845)	(1,370,982)	(1,020,000)	(1,020,000)	(1,020,000)	(1,020,000)	(1,020,000)	(1,020,000)
OTHER INCOME & EXPENSE	(2,049,849)	(1,011,248)	(867,000)	(338,500)	(470,000)	(764,000)	(470,000)	(764,000)
AVAILABLE FOR CAPITAL	1,544,306	2,765,363	2,249,730	2,324,102	2,087,331	1,790,003	1,976,566	1,572,975
CAPITAL IMPROVEMENTS	(4,140,467)	(3,698,039)	(5,243,617)	(5,527,500)	(2,737,000)	(1,643,000)	(2,166,000)	(1,997,000)
CASH INCREASE/(DECREASE)	(2,596,161)	(932,676)	(2,993,887)	(3,203,398)	(649,669)	147,003	(189,434)	(424,025)
BEGINING CASH BALANCE	10,713,237	8,117,076	7,184,400	4,190,513	987,115	337,446	484,449	295,015
CASH INCREASE/(DECREASE)	(2,596,161)	(932,676)	(2,993,887)	(3,203,398)	(649,669)	147,003	(189,434)	(424,025)
ENDING BALANCES	8,117,076	7,184,400	4,190,513	987,115	337,446	484,449	295,015	(129,010)
DEBT SERVICE COVERAGE	0.56	2.75	3.06	2.61	2.51	2.50	2.40	2.29
RATE CHANGE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ANNUAL RESIDENTIAL STORM WATER BILL								
BILL (1991=\$36.00)	\$53.88	\$53.88	\$53.88	\$53.88	\$53.88	\$53.88	\$53.88	\$53.88
Cash Reserve Ratio	177.04%	162.88%	83.24%	17.99%	6.03%	8.66%	5.17%	-2.22%
CASH BALANCE NEEDED			503,427	548,840	559,367	559,700	570,443	581,403

Department of Public Utilities
STORMWATER CAPITAL IMPROVEMENT PROJECTS
FIVE YEAR BUDGET
FOR FISCAL YEARS 2016-20

CashFlowStormCIP2016mo.xlsx3/3/2015

COST CENTER	PROJECT NUMBERS	SUB-PROJ #	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	FEET/ PIPE	FISCAL YEARS						PROJECTS DELAYED
							PAST YEAR 2014-15	BUDGET YEAR 2015-16	BUDGET YEAR 2016-17	BUDGET YEAR 2017-18	BUDGET YEAR 2018-19	BUDGET YEAR 2019-20	
53-10201	2772.10		LAND										
10301			LAND RIGHT OF WAY										
10301			GOLF COURSE LAND				283,340						
							283,340	0	0	0	0	0	0
53-10301	2772.10		LIFT STATIONS - 2720.05										
10301	53470854	13A001	WESTPOINT PARK UNDERDRAIN LIFT STATION RECONSTRUCTION	5	4		450,000						
10301	53471014	13A002	NEW STAR LIFT STATION PUMP REPLACEMENT	4	4		50,000						
10301	53471042	15A012	NEW STORAGE BARN - SERVICE CONNECTIONS AND PARKING	3	0		200,000						
10301	53471040		SWEDE TOWN LIFT STATION	3	0	IMPT FEE		325,000					
10301			WQ - 10TH NORTH LIFT STATION WATER QUALITY IMPROVMENTS								56,000	250,000	
10301			200 SOUTH LIFT STATION - PINCH VALVE REPLACEMENT	4	3			5,000	10,000				
10301			LIFT STATION REHABILITATION AT 400 WEST 1300 SOUTH - NORTH SIDE	5	4			20,000					200,000
10301			LEE DRAIN LIFT STATION - GATE REPLACEMENT	5	5			35,000					
10301			LIFT STATION AT SURPLUS CANAL AND INDIANA REPAIRS	4	5			40,000					
10301			SD LIFT STATION AT 650 WEST AND 500 NORTH IMPROVEMENTS	4	4				10,000				50,000
10301			LIFT STATION REHABILITATION AT PAXTON AND 700 WEST	5					25,000				200,000
10301			HARTLAND LIFT STATION ABANDONMENT	1	5				35,000				
10301			300 WEST 1300 SOUTH LIFT STATION ADANDONMENT	1	2					35,000			
10301	53471038		OIL DRAIN LIFT STATION - REBUILD OF GABION BASKETS	5	4								58,000
10301	53471037	99A00	VARIOUS PUMP STATIONS					0	100,000	100,000	100,000	100,000	
							700,000	425,000	180,000	135,000	156,000	350,000	508,000
53-10301	2773.10		CULVERTS, FLUMES, & BRIDGES										
							0	0	0	0	0	0	0
53-10301	2773.10		DETENTION BASINS - 2730.20										
							0	0	0	0	0	0	0
53-10301	2773.10		COLLECTION MAINS - 2730.12										
			CITY, COUNTY, STATE AND MISC. DRIVEN PROJECTS										
			NEW STROM DRAIN ON 5500 WEST FROM 700 SOUTH TO CUL-DE-SAC TO THE NORTH	4	0	IMPT FEE	1,270	345,000					
10301	534740030		STORM DRAIN BOX DECK REPLACEMENT				5,433						
10301	534740031		2630 EAST BLAINE AVENUE (1720 SOUTH)				10,000						
10301	53470918		SCHOOL OF DENTISTRY UNIVERSITY OF UTAH				1,500						
10301	534740020	99A01	CONTINGENCY PROJECTS						250,000	250,000	250,000	250,000	
			PUBLIC UTILITY DEFINED PROJECTS										
10301	53470835	12A022	MIDDLE BRIGHTON CULVERT REHABILITATION	5	0								200,000
10301	53475005		BRIGHTON DRAIN ABOUT 300 SOUTH 5800 WEST				235,000	800,000					
10301	53470880	13A018	2100 EAST STORM DRAIN - WESTMINSTER AVENUE (1930 S) TO 1700 SOUTH	3	0	1,650		356,000					
10301	53470881	13A019	1500 EAST STORM DRAIN - EMIGRATION CREEK (APPROX. 1800 S) TO 1700 SOUTH	3	0	550							150,000
10301	53470882	13A020	LEE DRAIN - PIPE OPEN CHANNEL NORTH OF PIONEER ROAD	5	5	450		25,000	600,000				
10301	53470908	15A006	NEW STORM DRAIN ON 2200 EAST - 1700 SOUTH TO ST. MARY'S DR	4	0	2000	150,000				400,000		
10301	53470904	15A007	700 WEST - 2100 SOUTH TO 1700 SOUTH - PIPING OF OPEN DITCH	4	3	2000						10,000	640,000
10301	53470851	13A023	RED BUTTE CULVERT AT SUNNYSIDE AVENUE	5	4			750,000					
10301	534740029		1525 S GLADIOLA STREET				16,000						
10301			WQ - MONTAGUE CUTOFF- NEW 18" STORM DRAIN	4	0	250		15,000	69,000				
10301			REPAIR OUTLETS ON THE LEE DRAIN AT 4800 WEST	3	4				190,000				
10301	534740026		VARIOUS NEW STORM DRAINS 2014/2015										

STORMWATER CAPITAL IMPROVEMENT PROJECTS

FIVE YEAR BUDGET
FOR FISCAL YEARS 2016-20

COST CENTER	PROJECT NUMBERS	SUB-PROJ #	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	FEET/PIPE	FISCAL YEARS						PROJECTS DELAYED
							PAST YEAR 2014-15	BUDGET YEAR 2015-16	BUDGET YEAR 2016-17	BUDGET YEAR 2017-18	BUDGET YEAR 2018-19	BUDGET YEAR 2019-20	
						6,900	419,203	2,291,000	1,109,000	250,000	650,000	260,000	990,000
			<u>RIPARIAN CORRIDOR PROJECTS</u>										
10301			WETLANDS TREATMENT FACILITY AT CORNELL LIFT STATION	5	0				15,000	126,000			
10301			WQ - WETLANDS TREATMENT FACILITY AT BOY SCOUT DRIVE		0								
10301	53470850	13A022	RED BUTTE CULVERT AT 1300 EAST & 1000 SOUTH - REHAB (LAND \$165,000)	5	4		457,930						
10301	53470861	13A025	RED BUTTE CULVERT REHAB AT 1500 EAST (CIPP)	4	3		138,000						
10301	534902	13A026	MILLER PARK				375,000						
10301	53473006	13A027	900 SOUTH & JORDAN AVES. - WATER GRADING BASE				114,028						
10301	534904	14A010	JORDAN RIVER; GADSBY DIVERSION DAM REMOVAL/REDESIGN	2	4		150,000						
10301	534905	16A001	LPC_R03; MIDDLE PARLEY'S PARK	3	3			38,250					
10301	534906	16A002	LPC_R01A01B; UPPER PARLEY'S PARK	3	3			40,900					
10301	534907	16A003	LPC_R03; LOWER PARLEY'S PARK	3	3			36,350					
10301	534908	16A004	LEM_R10; WASATCH HOLLOW PARK	2	4			60,000					
10301			LEM_R05A:Bonneville Golf course - Oak Forrest						140,000				
10301			LEM_R04:Bonneville Golf course - Below Storm outfall gully						70,000				
10301			LEM_R05B:Bonneville Golf course - Above foothill Drive						119,000				
10301			LEM_R03A:Bonneville Golf course - upper							127,000			
10301			LEM_R03B:Bonneville Golf course - suspension Bridge						159,000				
10301			R03A,R03B,R04,R05A,R05B (DESIGN)	4	4			56,000					
10301	534910	17A002	LCC_R01B; UPPER FREEDOM TRAIL AREA	2	4					15,000		150,000	
10301	534911	17A003	LCC_R01C; LOWER FREEDOM TRAIL AREA	2	4					11,000		115,000	
10301	534912	17A004	UCC_R11C; GUARD SHACK GATE AREA	2	4					45,000	450,000		
10301	534913	17A005	LEM_R01; ROTARY GLEN PARK	2	4					14,000		140,000	
10301	534914	17A006	LPC_R05A; UPPER SUGARHOUSE PARK	2	4								16,000
10301	534915	18A001	LEM_R04; BONNEVILLE GOLF COURSE - BELOW STORM DRAIN OUTLET GULLY	2	4								175,000
10301	534916	18A002	LPC_R05B; SUGARHOUSE PARK - NEAR HIGHLAND HIGH TRACK	2	4								125,000
10301	534917	18A003	LPC_R05C; MIDDLE SUGARHOUSE PARK	2	4								215,000
10301	534918	18A004	LCC_R01DO2A; UPPER MEMORY GROVE PARK	2	4								80,000
10301	534919	18A005	LRB_R03; UNIVERSITY- ABOVE CHIPETA WAY	2	4								85,000
10301	534920	99A14	UCC_R11A; ELBOW TURN	2	4					10,000		72,000	
10301	534921	99A15	UEM_R17; ABOVE DEBRIS BASIN	2	4								10,000
10301	534922	99A16	LRB_L05A; VA MEDICAL CENTER, BELOW FOOTHILL DRIVE	2	4								115,000
10301	534923	99A17	LRB_R02; UNIVERSITY. BELOW RED BUTTE GARDEN	2	4								75,000
			LRB_R05C; SUNNYSIDE PARK										173,000
							1,234,958	231,500	503,000	348,000	450,000	477,000	1,069,000
			<u>LOCAL AREA PROJECTS (* WORK BY CITY CREWS)</u>										
10301	534740023	99A05	VARIOUS PROJECTS					200,000	200,000	200,000	200,000	200,000	
							0	200,000	200,000	200,000	200,000	200,000	0
10301	534740020	99A04	CLEANOUT BOX REHABILITATION (LIDS)	4	4			120,000	60,000	60,000	60,000	60,000	
10301	53470927		CLEANOUT BOX REHABILITATION				90,000						
10301	534740024	99A06	AVENUE CROSSWALKS	3	0			50,000	50,000	50,000	50,000	50,000	
10301	534740024	99A07	ADA RAMPS	3	0			50,000	50,000	50,000	50,000	50,000	
10301	534740027		AVENUE CROSSWALKS AND ASA RAMPS 2014/2015				116,116						
10301	534740024	99A08	SID VARIOUS STREETS -- DIP STONE REPLACEMENT	3	0			50,000	50,000	50,000	50,000	50,000	
10301		99A09	CONTRIBUTIONS BY DEVELOPERS	3	0		500,000	500,000	500,000	500,000	500,000	500,000	
							706,116	770,000	710,000	710,000	710,000	710,000	0
			<u>MASTER PLAN PROJECTS</u>										
10301	53470822	13A035	PARLEYS WALMART 2705 PARLEYS WAY										500,000

STORMWATER CAPITAL IMPROVEMENT PROJECTS

FIVE YEAR BUDGET
FOR FISCAL YEARS 2016-20

COST CENTER	PROJECT NUMBERS	SUB-PROJ #	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	FEET/ PIPE	FISCAL YEARS						PROJECTS DELAYED
							PAST YEAR 2014-15	BUDGET YEAR 2015-16	BUDGET YEAR 2016-17	BUDGET YEAR 2017-18	BUDGET YEAR 2018-19	BUDGET YEAR 2019-20	
10301	53470887	99A11	FOOTHILL DRIVE (2800 E) - EMIGRATION CREEK TO 2300 EAST	3	3								500,000
10301	53470888	99A12	600 EAST - 900 SOUTH TO THE AVENUES	3	3								4,200,000
			TOTAL COLLECTION LINES				2,360,277	3,492,500	2,522,000	1,508,000	2,010,000	1,647,000	7,259,000
	2730.20		LANDSCAPING - WIP 53-10301-2773.10										
10301	53470923		NORTHWEST OIL DRAIN CANAL SEGMENT PART 3				1,900,000	1,600,000					
10301			WQ - ROTARY PARK RCO IMPROVEMENTS AND WATER QUALITY FEATURE						20,000				
10301			WQ - 9TH AVE STROM DRAIN OUTFALL - WATER QUALITY IMPROVEMENTS	4				10,000	15,000				
							1,900,000	1,610,000	35,000	0	0	0	0
			TOTAL CAPITAL IMPROVEMENTS				5,243,617	5,527,500	2,737,000	1,643,000	2,166,000	1,997,000	7,767,000
	2750.10		MOTIVE REPLACEMENT AUTO & TRUCK										
10201		12	BOBTAIL DUMP - 2 1/2 TON (REPLACE 36830)										
10201		12	10 WHEEL DUMP TRUCK							150,000		150,000	
10201		14	1 TON DUMP										
10201		14	2 TON DUMP TRUCK										
10901		15	TRUCK 4X4 LONG BED				32,000						
			VARIOUS						150,000	100,000	150,000	100,000	
							32,000	0	150,000	250,000	150,000	250,000	0
	2750.30		FIELD MAINTENANCE EQUIPMENT										
10201		12	VACTOR TRUCK (Replace 36660)				360,000			200,000			
10201		12	TRACK EXCAVATOR W/DOZER BLADE (REPLACE 36870)				166,000					200,000	
			VARIOUS										
							526,000	0	0	200,000	0	200,000	0
	2760.30		TELEMETERING										
10201		14	SCADA FOR LIFT STATIONS				5,000	5,000	5,000	5,000	5,000	5,000	
							5,000	5,000	5,000	5,000	5,000	5,000	0
	2760.50		OFFICE EQUIPMENT										
							0	0	0	0	0	0	0
	2760.90		OTHER EQUIPMENT										
10201		12	CEMENT MIXER						6,000		6,000		
10201		16	ENCLOSED TRAILER					6,500					
10201		14	DUEL REEL AIR COMPRESSOR					23,000					
10201		14	SNOW PLOW										
10701		12	COMPOSITE SAMPLERS						5,000	5,000	5,000	5,000	
10701			VARIOUS										
							0	29,500	11,000	5,000	11,000	5,000	0
			TOTAL CAPITAL OUTLAY				563,000	34,500	166,000	460,000	166,000	460,000	0
			GRAND TOTAL				5,806,617	5,562,000	2,903,000	2,103,000	2,332,000	2,457,000	7,767,000

STORMWATER CAPITAL IMPROVEMENT PROJECTS

FIVE YEAR BUDGET
FOR FISCAL YEARS 2016-20

COST CENTER	PROJECT NUMBERS	SUB-PROJ #	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	FEET/ PIPE	FISCAL YEARS						PROJECTS DELAYED
							PAST YEAR 2014-15	BUDGET YEAR 2015-16	BUDGET YEAR 2016-17	BUDGET YEAR 2017-18	BUDGET YEAR 2018-19	BUDGET YEAR 2019-20	
			Criticality Legend:										
			5. Significant number of customers or critical facilities affected										
			4. Some customers affected										
			3. Service restored with repair/redundant means in 8-24 hours										
			2. Moderate -Minimal impact if asset fails										
			1. Low, loss of facility, has no impact if fails										
			Condition Legend:										
			5. Failed or failing. Repair immediate or in 1 year										
			4. Failure expected in 1-5 years. Fix in 1-5 years										
			3. Deteriorating but service not threatened.										
			2. Good										
			1. New or like new										

**STREET LIGHTING UTILITY
ENTERPRISE FUND
BUDGET SUMMARY
FY 2016-2018**

				Rate increase 0%	Rate increase 0%	Rate increase 0%
<u>SOURCES</u>	ACTUAL 2013-2014	AMENDED BUDGET 2014-15	PROJECTED ACTUAL 2014-15	PROPOSED BUDGET 2015-16	FORECAST BUDGET 2016-17	FORECAST BUDGET 2017-18
REVENUES						
STREET LIGHTING FEES	\$ 3,279,901	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000	\$ 3,200,000
INTEREST INCOME	2,065	30,000	30,000	30,000	30,000	30,000
OTHER REVENUES	1,165	2,000	2,000	2,000	2,000	2,000
TOTAL REVENUES	\$ 3,283,131	\$ 3,232,000	\$ 3,232,000	\$ 3,232,000	\$ 3,232,000	\$ 3,232,000
OTHER SOURCES						
GRANTS & OTHER RELATED REVENUES	-	-	-	-	-	-
SPECIAL ASSESSMENTS	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-
BOND PROCEEDS	-	-	-	-	-	-
TOTAL OTHER SOURCES	-	-	-	-	-	-
TOTAL SOURCES	\$ 3,283,131	\$ 3,232,000	\$ 3,232,000	\$ 3,232,000	\$ 3,232,000	\$ 3,232,000
EXPENSES & OTHER USES						
EXPENDITURES						
PERSONNEL SERVICES	\$ 225,046	\$ 232,128	\$ 232,128	\$ 232,272	\$ 236,917	\$ 241,656
OPERATING & MAINTENANCE	27,697	-	-	-	-	-
TRAVEL & TRAINING	-	2,500	2,500	2,500	2,550	2,601
UTILITIES	767,378	1,011,000	1,011,000	1,011,000	1,011,000	1,011,000
PROF & CONTRACT SERVICES	1,001,288	990,000	990,000	990,000	1,009,800	1,029,996
DATA PROCESSING	-	-	-	-	-	-
FLEET MAINTENANCE	-	-	-	-	-	-
ADMINISTRATIVE SERVICE FEE	17,041	20,000	20,000	20,000	20,400	20,808
PAYMENT IN LIEU OF TAXES	-	-	-	-	-	-
RISK MANAGEMENT	19,683	-	-	-	-	-
TRANSFERS TO GENERAL FUND	-	-	-	-	-	-
OTHER CHARGES AND SERVICES	1,177	325	325	325	332	338
TOTAL EXPENDITURES	2,059,310	2,255,953	2,255,953	2,256,097	2,280,999	2,306,399
OTHER USES						
CAPITAL OUTLAY	-	-	-	-	-	-
CAPITAL IMPROVEMENT BUDGET	768,180	950,000	947,000	950,000	1,000,000	1,000,000
DEBT SERVICES	-	-	-	-	-	-
TOTAL OTHER USES	\$ 768,180	\$ 950,000	\$ 947,000	\$ 950,000	\$ 1,000,000	\$ 1,000,000
TOTAL USES	\$ 2,827,490	\$ 3,205,953	\$ 3,202,953	\$ 3,206,097	\$ 3,280,999	\$ 3,306,399
EXCESS REVENUE AND OTHER SOURCES OVER (UNDER) USES	\$ 455,641	\$ 26,047	\$ 29,047	\$ 25,903	\$ (48,999)	\$ (74,399)
OPERATING CASH BALANCES						
BEGINNING JULY 1	\$ 43,216	\$ 498,857	\$ 498,857	\$ 527,904	\$ 553,807	\$ 504,808
ENDING JUNE 30	\$ 498,857	\$ 524,904	\$ 527,904	\$ 553,807	\$ 504,808	\$ 430,409
Cash Reserve Ratio	24%	23%	23%	25%	22%	19%
Cash reserve goal above 10%						

STREET LIGHTING UTILITY CASHFLOW

CashFlowStreetLightsCIP2016.xlsx3/3/2015

	Actual YEAR 2011-2012	Actual YEAR 2012-2013	Actual YEAR 2013-2014	Projected YEAR 2014-2015	BUDGET YEAR 2015-2016	BUDGET YEAR 2016-2017	BUDGET YEAR 2017-2018	BUDGET YEAR 2018-2019	BUDGET YEAR 2019-2020	BUDGET YEAR 2020-2021
STREET LIGHTING SALES	0	1,196,765	3,279,901	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000
OTHER INCOME	0	11,221	1,165	30,000	30,000	30,000	30,000	30,000	30,000	30,000
INTEREST INCOME	0	85	2,065	2,000	2,000	2,000	2,000	2,000	2,000	2,000
OPERATING INCOME	0	1,208,071	3,283,131	3,232,000	3,232,000	3,232,000	3,232,000	3,232,000	3,232,000	3,232,000
OPERATING EXPENSES	0	(1,062,323)	(2,059,310)	(2,255,953)	(2,256,097)	(2,280,999)	(2,306,399)	(2,332,307)	(2,358,734)	(2,358,734)
NET INCOME EXCLUDING DEP.	0	145,748	1,223,821	976,047	975,903	951,001	925,601	899,693	873,266	873,266
BOND PROCEEDS	0	0	0	0	0	0	0	0	0	0
CAPITAL OUTLAY	0	0	0	0	0	0	0	0	0	0
DEBT SERVICE	0	0	0	0	0	0	0	0	0	0
OTHER INCOME & EXPENSE	0	0	0	0	0	0	0	0	0	0
AVAILABLE FOR CAPITAL	0	145,748	1,223,821	976,047	975,903	951,001	925,601	899,693	873,266	873,266
CAPITAL IMPROVEMENTS	0	(102,532)	(768,180)	(947,000)	(950,000)	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)
CASH INCREASE/(DECREASE)	0	43,216	455,641	29,047	25,903	(48,999)	(74,399)	(100,307)	(126,734)	(126,734)
BEGINING CASH BALANCE	0	0	43,216	498,857	527,904	553,807	504,808	430,409	330,102	203,368
CASH INCREASE/(DECREASE)	0	43,216	455,641	29,047	25,903	(48,999)	(74,399)	(100,307)	(126,734)	(126,734)
ENDING BALANCES	\$0	\$43,216	\$498,857	\$527,904	\$553,807	\$504,808	\$430,409	\$330,102	\$203,368	\$76,634
RATE CHANGE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cash Reserve Ratio	132.48	132.48	132.48	132.48	132.48	132.48	132.48	132.48	132.48	132.48
	0%	4%	24%	23%	25%	22%	19%	14%	9%	3%

**STREET LIGHTING CAPITAL IMPROVEMENT PROJECTS
FIVE YEAR BUDGET
FOR FISCAL YEARS 2016-20**

COST CENTER	PROJECT NUMBERS	PROJECT DESCRIPTION	CRITICALITY RATING	CONDITION RATING	FISCAL YEARS						PROJECTS DELAYED
					PAST YEAR 2014-15	BUDGET YEAR 2015-16	2016-17	2017-18	2018-19	2019-20	
		<u>Street Light Projects</u>									
48001	48108	SOUTH TEMPLE FROM 200 E TO VIRGINIA			320,000						
48001	48113	15TH AND 15TH NEIGHBORHOOD			52,500						
48001	48114	400 SOUTH FROM 900 WEST TO 200 EAST			52,000						
48001		CALIFORNIA AVENUE FROM REDWOOD TO 700 E			140,000						
48001		9th & 9th NEIGHBORHOOD				240,000					
48001		600 SOUTH/500 SOUTH/600 NORTH INTERCHANGES				120,000					
48001		HIGH WATTAGE REPLACEMENTS				276,000					
48001		VARIOUS LOCATION - LAMP REPLACEMENTS #5			58,000						
48001		VARIOUS LOCATION - LAMP REPLACEMENTS #6				60,000					
48001		VARIOUS LOCATION - LAMP REPLACEMENTS - #7				58,000					
48001		BASE LEVEL LIGHTING UPGRADES			100,000	100,000					
48001		ARTERIAL & COLLECTOR STREET HE AND SYSTEM UPGRADES			224,500	96,000	400,000	200,000			
48001		NEIGHBORHOOD HE AND SYSTEM UPGRADES.					600,000	800,000	1,000,000	1,000,000	
		TOTAL IMPROVEMENTS			\$ 947,000	\$ 950,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ -