

City Council Utility Committee

Meeting Agenda

Friday, September 13, 2019

COUNCIL CHAMBERS, CITY HALL, 2ND FLOOR

2:30 - 4:00 pm

- I. Call to Order
- II. Roll Call
- III. Approval of Agenda
- IV. Approval of Minutes from July 19, 2019
- V. Public Comments on Items Not on the Agenda
- VI. Agenda Items and Date for Next Meeting
 - Advance Agenda & Meeting Dates
- VII. Dashboard
- VIII. Cost of Service
- IX. Utility 2020 Budget and Rates
- X. 2020 Tap Fees
- XI. Solid Waste
 - General Update
- XII. Update – Water Resources
 - Water Supply Update
 - Windy Gap Firming Project Update
- XIII. Upcoming Projects and Council Action
 - CIP Update
 - SCWTP Disinfection CM and Construction – Sept. 17th
 - SCTWP Building Upgrade Construction – 4th QTR
 - Windy Gap Financing – TBD
- XIV. Adjourn 4:00 pm

Attachments: 7-19-19 Draft Minute

Advance Agenda

Dashboard

Budget Adjustment Table

2020 Rates

2020 Tap Fees

CIP Update

City Council
Utility Committee
Draft - Meeting Minutes
Friday, July 19, 2019
COUNCIL CHAMBERS

I. **Call to Order** – Councilmember Stolzmann called the meeting to order at 1:00 p.m.

II. **Roll Call** was taken and the following members were present:

***City Council:** Mayor Muckle, Councilmember Stolzmann and Councilmember Maloney*

***Staff Present:** Mrs. Balser, Mr. Kowar, Mr. Watson, Mr. Peterson, Mrs. Golden and Mr. Ahrens.*

***Public:** N/A*

III. **Approval of Agenda**

Councilmember Maloney motioned to approve the agenda and Councilmember Stolzmann seconded the motion. All approved the Agenda.

IV. **Approval of the Minutes**

Councilmember Maloney motioned to approve the April 12, 2019 meeting minutes and Councilmember Stolzmann seconded the motion. All approved the minutes.

V. **PUBLIC COMMENTS ON ITEMS NOT ON THE AGENDA**

None

VI. Agenda Items and Date for Next Meeting

- Next meeting date is September 13, 2019 at 2:30 – 4:00 p.m.
- Final 2020 Rates
- Multi-family/Commercial Recycling
- P66 Buildout Scenarios

Councilmember Stolzmann asked about P66 Buildout Scenarios that was on a previous agenda. Mrs. Balsler stated that it is scheduled for the next meeting. Committee briefly discussed and agreed to add this item to the September Agenda. Councilmember Stolzmann asked if there are any further items that need to be add and Mr. Kowar stated not at this time. Stolzmann stated we can always add them between meetings.

VII. Dashboard

Mr. Kowar started by saying that Mr. Ahrens has been doing a great job of connecting multiple systems and developing the high level architecture to provide something to review. The Committee discussed the charts beginning on page 10 (Water Utility Chart). Mrs. Balsler asked how/what information should we include without duplicating the Finance Reports. Councilmember Maloney explained the difference between the reports. The Committee noted that this is not a complete picture of the financial report but a dashboard of key components. It was agreed to change the title from Operating Revenue to just Revenue on the gray bar of the Utilities-Water, Wastewater and Storm Water Design Draft Charts and leave the other titles for expenses.

On the Wastewater Utility Chart, Mr. Kowar stated that there isn't much difference between Wastewater and Storm Water as they are straight forward funds and there's not a lot to show. If flows are shown on the wastewater it would be 2 to 2.1 MGDs all the time. We could work on adding any permit violation information. Councilmember Stolzmann stated she understands there's no variation in flows and thinks it's worth showing so we are consistent. That way it's a good way to show people why we do this average consumption. It was concluded that Mr. Kowar will include notable violations.

Storm Water Utility Chart, Mr. Kowar said this is where we collect the fee and it is stable. Storm water is just capital project expense. The projects are bigger than Revenues and is a multi-year thing to save up and spend/save.

Councilmember Stolzmann asked if the committee had any other discussions and stated these were great charts and thanked Mr. Ahrens for the great job on putting them together. No further discussion and/or comments.

VIII. Cost of Service

Mr. Kowar explained the different components of the pages and went on to say we go through the cost of service methodology to determine the expenses we have and a snapshot of one year that we are trying to cover. We look at peaking factors where we looked at the last 5 years. We updated peaking factors to our actual peaking factors using 2017 and we have a graph of the last 5 years and a table so you can see year to year the different peaking factors and how they move around or not. So our system peaking in our last round was 2 for max day and 4 for max hour. We are at 2.61 for max day and 2.99 for max hour so what that is saying is that the max day hits us harder than max hour. If we have a 100 degree day everyone turns on their sprinklers and that's what gives us a max day. Committee discussed peaking factors, average/max day and volume. Mr. Kowar explained the peaking factor is different across the customer classes. He uses a system peaking factor and a customer class peaking which he calls the user type. So each customer is looked at for their average day and max day. We don't have a peak day on a customer. Later on there is a table that shows the max day in a given year. Councilmember Stolzmann asked how the tap size is determined. Mr. Kowar said we start with a ¾" tap equivalent or 1 single family home. Kevin stated that it's all calculated on volume not by tap size for utility rates and Mr. Kowar agreed. The rate structure is different from the cost of services and is based on volume by tap size. Councilmember Stolzmann continued with asking should the tap size impact how much you pay per 1,000 gal of water. Mr. Kowar doesn't think so. Cory explained the difference between commercial vs residential in that the way a commercial 1,000 gal hits the system is different than the way the residential 1,000 gal hits. Mr. Kowar referred to page 31 for a visual that looks at the rate per 1,000 gal. Committee continued discussing customer class then Mr. Kowar referenced two other charts "WCS0-6 that shows each of the user class for Revenue that they should pay and WCS0-7 is where we lump into our system. Councilmember Stolzmann is concerned that the Commercial users are getting charged less and asked if this is fair and should the first gallon be different? Mr. Kowar stated you want to charge on a higher level. Councilmember Maloney asked how the customer class is helping us with this and what purpose does it serve in setting rates. Mr. Kowar explained that it recognizes and tries to charge the people that are peaking to make sure that they are getting charged what they should and when you look at the end of the year then we know to adjust the rate overall. The latest cost of service which we just did on 2017, which is the first full year where we actually did what the report said and we did some smoothing and some incremental changes over the 3-4 year period where 2017 is the most accurate. Councilmember Maloney stated he's trying to understand how we determine equity because when you're trying to recover some costs where the user groups own some level of responsibility toward equity. Mr. Kowar agreed there's some amount they should pay. Committee continued discussing the peaking, rate numbers and how it's calculated. Mr. Kowar referred to the chart on page 15 and explains the 3 stacked graphs that shows Commercial, Residential and Multi-Family. Mr. Kowar went on to say the GFO standards are what we try to follow by breaking out the customer class. To give you a little background we had to build a Facility Master Plan and build a big infrastructure on a fast schedule so we needed Federal money. So we pulled the methodology in and we signed loan documents for

2.5% or to some low rate to some degree and it says this has some equitable utility so we made the decision to do the methodology. Now we are in a good place but we could make changes if you want. Councilmember Maloney stated that what we did 5 years ago was very good as we had the citizens, staff and consultants involved but suggested we run every 5 years because we have different processes and decisions and base it on what we do today which may be different than 5 years ago. Maybe some scenarios can be brought to the next meeting if we change and what the impact would be. If we change the rate this way we would have unintended consequences. Mayor Muckle stated he doesn't understand what's broken that we're trying to fix. This could be a whole bunch of work that was already a bunch of work. Mr. Kowar said there are some residents that think they are paying more than commercial. So if there's one thing we need to fix is a resident needs to feel they pay the same as commercial. Councilmember Stolzmann says "No" she doesn't think that's what we are trying to say. Councilmember Maloney referred to the chart on Page 31 that is an aggregate of all the commercial and Eldorado Springs is paying the highest rate. Well the aggregate with all the other commercial is dragging all those up for the rate they are paying so is the bulk of commercial paying. Councilmember Stolzmann stated we could do some scenarios and run some data. Mr. Kowar said what you are saying is not to look at it as a class but establish some norm. Councilmember Stolzmann said that's the problem with commercial customer class but I bet it is not a normal distribution.

Mr. Ahren asked then do you want a number run off it that will tell you what the group means and how much standard deviation there is. If there's one out of whack, then it will tell you. It includes peaking people and if there's one that doesn't it will tell you. Then he used an example and Councilmember Maloney continued saying it would normalize the number and get rid of those Eldorado Springs users. Then you have Sierra Nevada that uses a small percent so what you have is the aggregate and you're saying it is equitable because of the aggregate across the classes and I don't philosophically agree with that. Mr. Kowar continued saying that applies to the resident that uses 3,000 gallons and you have people using half million gallons a year. Councilmember Maloney stated we agree those high volume users should pay the higher rate or what we call the highest incline block structure. Councilmember Stolzmann said we agreed to have this incline block structure that the Mayor laid that out as a principle last month. It is popular in our area and people want us to charge people who use more water a higher amount. So that is a bedrock principle that was laid out that we want to have an incline block structure. Regardless whether it is fair, equitable, related to cost of service or whatever we want to put this on top of it as our signature piece at the end and we agreed to that. Then how do we calculate for that first drop of water. At the end of the day we have to make sure it adds up to the amount we need to run the utility. Cory will make sure whatever we put on this that it will be enough money so that it doesn't change people's behavior so much that it throws it out of whack. Committee continued talking about what is reasonable and discussed a few scenarios from the user class charts.

Mrs. Balsler continued with a summary of what we are doing and that is work with Mr. Ahrens to get some numbers and if the attempt is to be able to show some scenarios based on that one rate for the September meeting. Then we are going to adjust based on the 2% and 15% on the next cycle in our rate structure, correct. Committee agreed. That is the recommendation of this group is to make this change in our budget when we do the 2020 Budget. She stated this should go to council using the same schedule as last year. Kevin stated the Revenue will be the same.

IX. Preliminary Utility 2020 Rates

Cory referred to the chart on Page 32 and discussed the projection of the 2020 Rates. He said the Water changed the most with about 1/2 percent different than what was proposed last time and explained what it's tied to. Depends on timing and everything else. Sewer changes are the same percentage across and just a rebalancing to have that consistency and the Storm didn't change at all. Councilmember Stolzmann continued with saying we will talk more about the project to understand the impacts it has on the rates and asked if there are any questions other than CIP impacts. Mayor Muckle just to repeat what you said, this assumes that we will spend this money. Cory said this is correct and went on to say the CIP adjustments will go to zero and it would be the same rate percentages. Then he stated what the projects are:

- SCWTP Disinfection Replacement – Out to Bid now
- SCWTP Administration Building – We are at 30% design and will have a cost estimate in the next month or so.
- SWSP Pipeline – Should have cost estimate by October.
- Also includes the changes to the Fire Hydrant Painting

Councilmember Maloney asked about the 32% - 4 month cash reserves. Committee discussed and concluded we are conservative and Mr. Kowar asked if we are being too conservative let us know as for the last two years we haven't asked for more money. We have a good system and could run the reports.

X. Solid Waste

- **General Update** – Mr. Kowar stated everything is moving along really well. Council and staff are responding to questions/concerns, which we haven't gotten a ton of. A Newsletter and Mailers have gone out to make cart changes. Committee discussed the trash, compost and cart sizes that was mentioned in the mailer. Mr. Kowar continued saying we are going to have neighborhood meetings at four different locations starting August 20 thru August 23 from 6:00 pm to 7:00 p.m. We will have Republic Staff (Drivers) present for people to meet, a Republic Truck and the Sweet Cow Truck there to see and visit with. There is a newsletter coming out with calendar information so each day of the week will get its own mailer calendar. Then there will be another Fall newsletter from

Republic being sent with more information. August 12th Republic will start putting carts out and that process will take about 3 weeks. Then the 4th week will be to mop up if anything is missed. Last week of August Western will pick up their containers starting on Thursday, Friday and Saturday. Councilmember Stolzmann asked if Mr. Kowar can draft a letter for the residents explaining why they have two sets of trash cans. Mr. Kowar agreed.

- **Emerald Ash Borer** – Mr. Kowar explained how there is still a quarantine in place and there is a Federal Process taking place right now that has some key dates coming up. We should get an idea if the quarantine is lifted or not but won't know anything until the winter (January/February). Mr. Kowar continued saying that is the high level quarantine and now the internals of the quarantine is that in October there is a no fly period where in the summer you can't ship it out without grinding it but in October that no fly goes away so we can ship in October without grinding it up. So our first plan of attack is that we meet with A-1 Organics which is the States lead composter to set up a green materials recycling site at the Wastewater Treatment Plant but that isn't looking good and may not happen. What we are going to do is stock pile compost and put it in roll-offs and when October comes along we'll ship it out.

XI. Update – Water Resources

- **Water Supply Update** – Cory states everything is super awesome with all the snow we've had! One thing he did want to bring up is the Coal Ridge water that the City bought in the 80's where we have 220+ shares that takes out too much off the main stem of Boulder Creek so it's downstream from us. It is very hard for us to use it. We have an exchange that allows us to bring it up to Marshall Lake and the intake where we can use it that way but we don't get the full use out of it. There is a buyer interested in acquiring our Coal Ridge Shares. I'm working on a deal to trade our shares for CBT water and probably cash. They haven't put the full proposal together yet but they are working on it. Councilmember Stolzmann asked if it affects our impact in Marshall Lake storage. Cory said it does not. Committee continued discussing the impacts and Cory explained how Coal Ridge works and ideally he asked for the CBT's full allocation.
- **Windy Gap Firming Project Update** – Cory said the design is complete and now looking at going out to bid for construction and have official bids by November. So we could start construction as early as 2021. The legal process is still going and that could delay starting. Northern District is looking at two options as far as funding. The first one would be the base concept is have an Interim payment like we had this year. Then we'd go into financing in 2021 with full payment at that point and then Bond in 2022 depending on the outcome of the lawsuit.

XII. Upcoming Projects and Council Action

- CIP Update – Mr. Kowar Referred to the chart on page 34 on the updates and stated that we are down on a project manager and he doesn't know if we'll get to all of them. We will need another 3 months to know where we are at. Councilmember Stolzmann said on these new CIP's we could put on an out year. Mr. Kowar continued with not wanting to make any decisions yet and September will be a better time to talk about what will stick.
- SCWTP Disinfection CM and Construction and SCWTP Building upgrade construction – Cory said these are the potential overages and we have on the 3rd quarter to go to Council for contracts. This will come again to us before we go to Council. These may be a budget amendment as we don't have the numbers yet.
- Outside Water Service Agreement – This is for 9555 Paradise Lane and will go to Council on August 20.
- Windy Gap Financing - TBD

XIII. Adjourn

The meeting was adjourned at 3:30 p.m.

City of Louisville Colorado Utility Committee Work Plan – September 13th

Topics will be discussed in the quarter which they are listed. Items that are not complete will roll to the next quarter.

Every Meeting:

- Capital Projects Progress
- Enterprise Dashboards: inclusive of KPI progress, water supply update, water use by customer class, revenue and expense by enterprise (and by customer class where appropriate), energy use by enterprise

Second Quarter

- ✓ 2020 Rates
- ✓ Initial Administrative Fee (solid waste) review
- ✓ Windy Gap Update
- ✓ Solid Waste Transition Plan Update
 - Spring and Fall Clean-up Plan
 - Customer Service
- ✓ Utility Rate Equity and Cost of Service

Third Quarter

- ✓ 2020 Rates
- ✓ 2020 Tap Fees
- ✓ Utility Rate Equity and Cost of Service
- ✓ SCWTP Disinfection
- ✓ Administrative Fee (solid waste) review & recommendation

Fourth Quarter

- Finalize 2020 Rates
- SCWTP Upgrades
- Water Loss Audit Report
- Instream Flow Update
- Windy Gap Update and Financing

First Quarter 2020

- Louisville Pipeline Report
- Asset Management Software Presentation & Asset Renewal Replacement
- Utility Rate Design
- Utility Financial Policies
- Multi-family and Commercial Recycling Regulation Discussion

Future

- Buildout (Phillip 66) Scenarios



NOT A FINANCIAL STATEMENT. A SNAPSHOT OF KEY INDICATORS.

Revenue

Source	Balance	Budget	% Budget
Commercial Users Fee	\$488,734	\$2,394,000	20%
Residential User Fee	\$1,016,978	\$3,306,000	31%
Tap Fees	\$1,952,503	\$3,282,870	59%
Total	\$3,458,214	\$8,982,870	38%

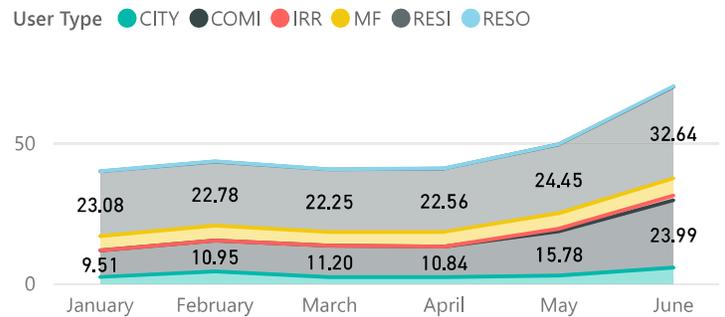
Net Production (MG)

Treatment Plant	January	February	March	April	May	June	Total
HBWTP Net Production	36.55	31.54	16.26	-0.18	0.19	40.98	125.33
SCWTP Net Production	14.13	7.12	26.41	45.93	63.92	72.76	230.25
Total	50.68	38.65	42.66	45.75	64.10	113.74	355.59

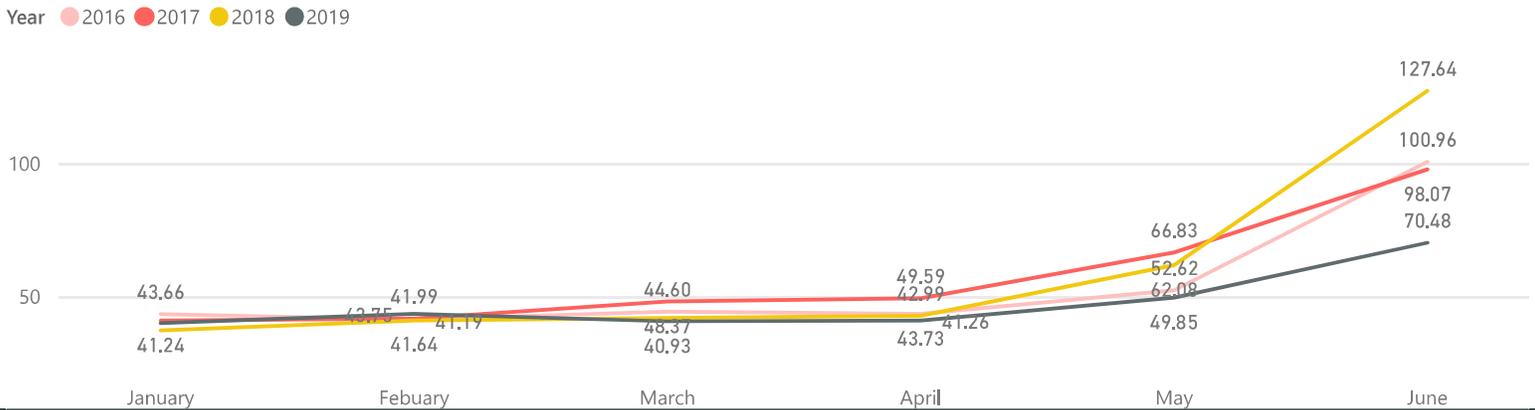
Operating Expenses

Source	Balance	Budget	% Complete
Central Fund-Wide Charges	\$257,175	\$520,330	49%
Raw Water Operations	\$298,680	\$965,790	31%
Utility Billing	\$52,947	\$150,300	35%
Water Distribution	\$216,893	\$604,630	36%
Water Plant Operations	\$504,159	\$1,603,370	31%
Water Utility Engineering	\$35,589	\$74,260	48%
WTP Building Maintenance	\$86,209	\$306,620	28%
Total	\$1,451,653	\$4,225,300	34%

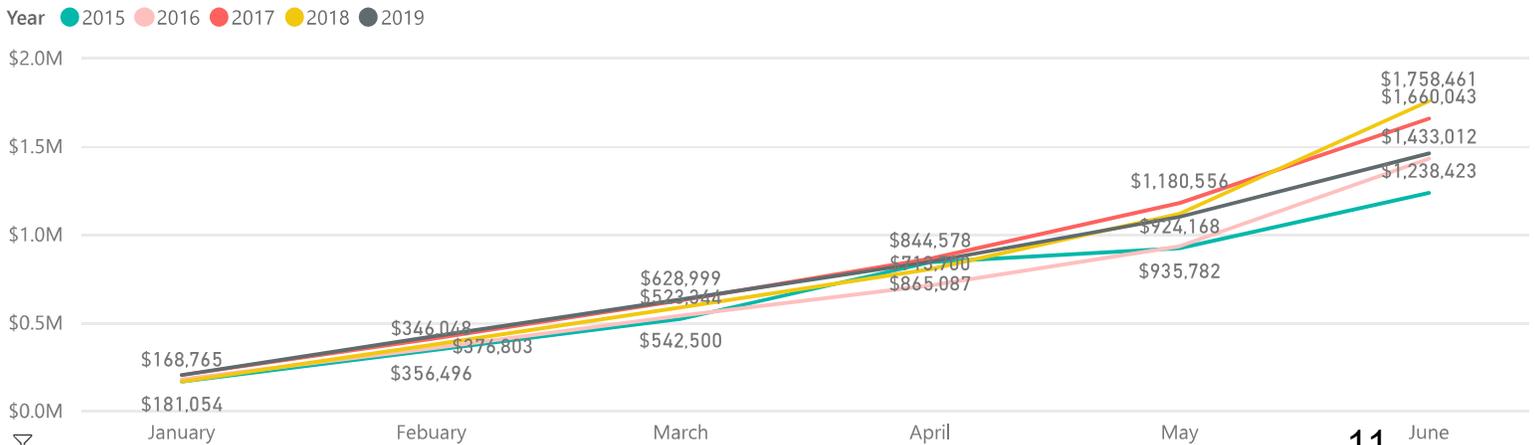
Billed Consumption by User Type (MG)



Billed Consumption (MG)



Cumulative Revenue Year over Year



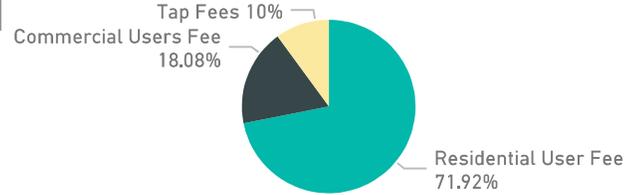


January 1, 2019 To June 30, 2019

NOT A FINANCIAL STATEMENT. A SNAPSHOT OF KEY INDICATORS.

Revenue

Source	Balance	Budget	% Budget
Commercial Users Fee	\$326,361	\$932,580	35%
Residential User Fee	\$1,298,002	\$2,521,420	51%
Tap Fees	\$180,400	\$469,800	38%
Total	\$1,804,762	\$3,923,800	46%



Operating Expenses

Source	Balance	Budget	% Budget
Central Fund-Wide Charges	\$207,434	\$365,690	57%
Pretreatment	\$34,451	\$80,680	43%
Utility Billing	\$44,628	\$135,690	33%
Waste Water Util Engineering	\$22,761	\$146,500	16%
Wastewater Treatment Plant Ops	\$380,128	\$974,590	39%
WW Collections	\$110,532	\$279,840	39%
WWTP Building Maintenance	\$121,379	\$455,670	27%
Total	\$921,313	\$2,438,660	38%

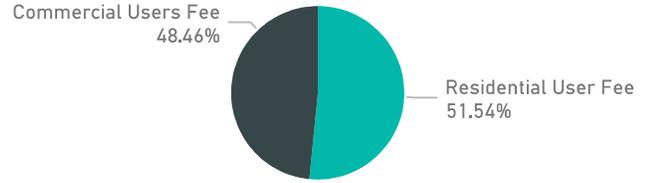


January 1, 2019 To June 30, 2019

NOT A FINANCIAL STATEMENT. A SNAPSHOT OF KEY INDICATORS.

Revenue

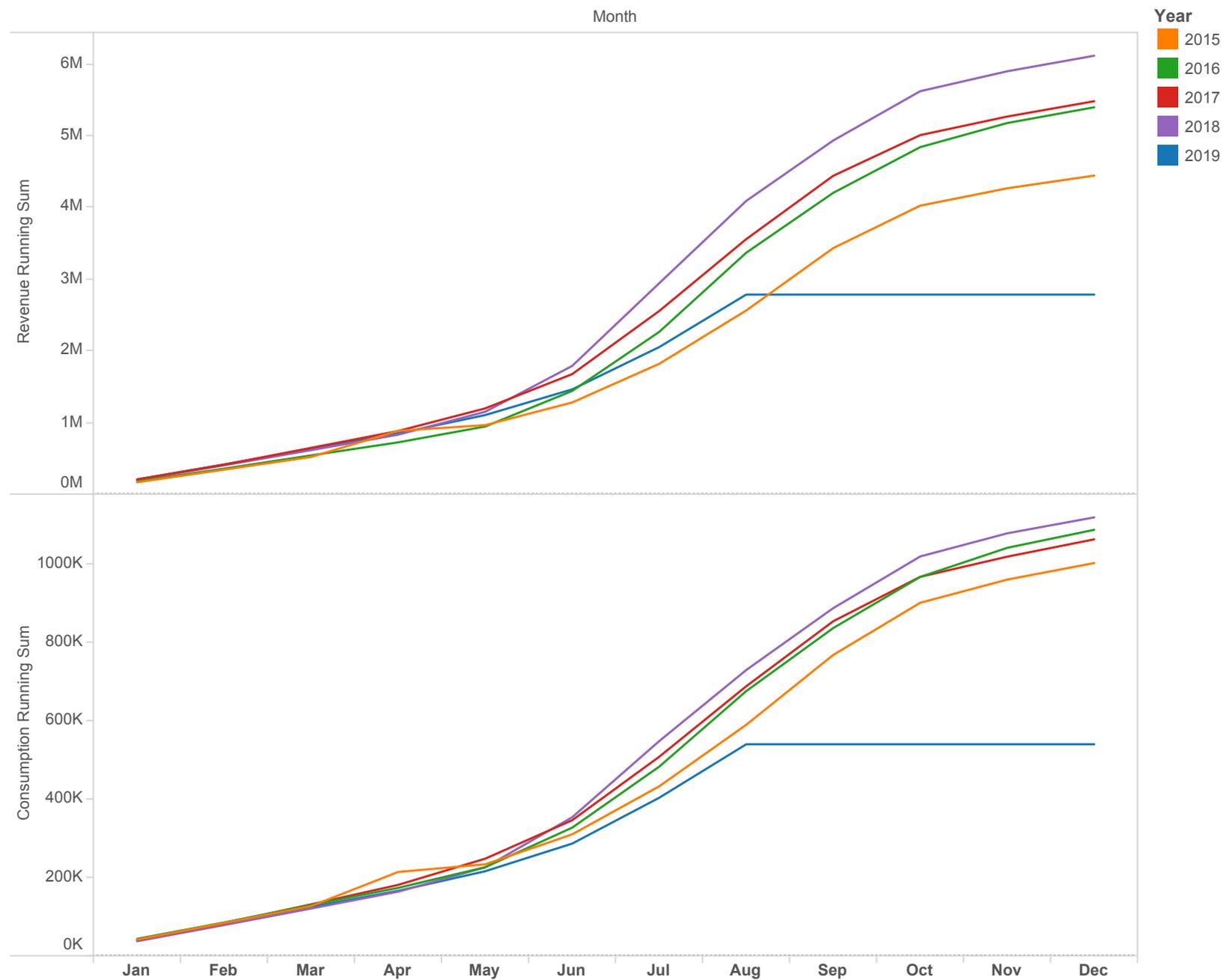
Source	Balance	Budget	% Budget
Commercial Users Fee	\$205,238	\$397,470	52%
Residential User Fee	\$218,274	\$430,600	51%
Total	\$423,512	\$828,070	51%



Operating Expenses

Source	Balance	Budget	% Budget
Central Fund-Wide Charges		\$0	
Storm Water Admin & Operations	\$136,752	\$338,530	40%
Storm Water Util Engineering	\$18,241	\$35,920	51%
Total	\$154,993	\$374,450	41%

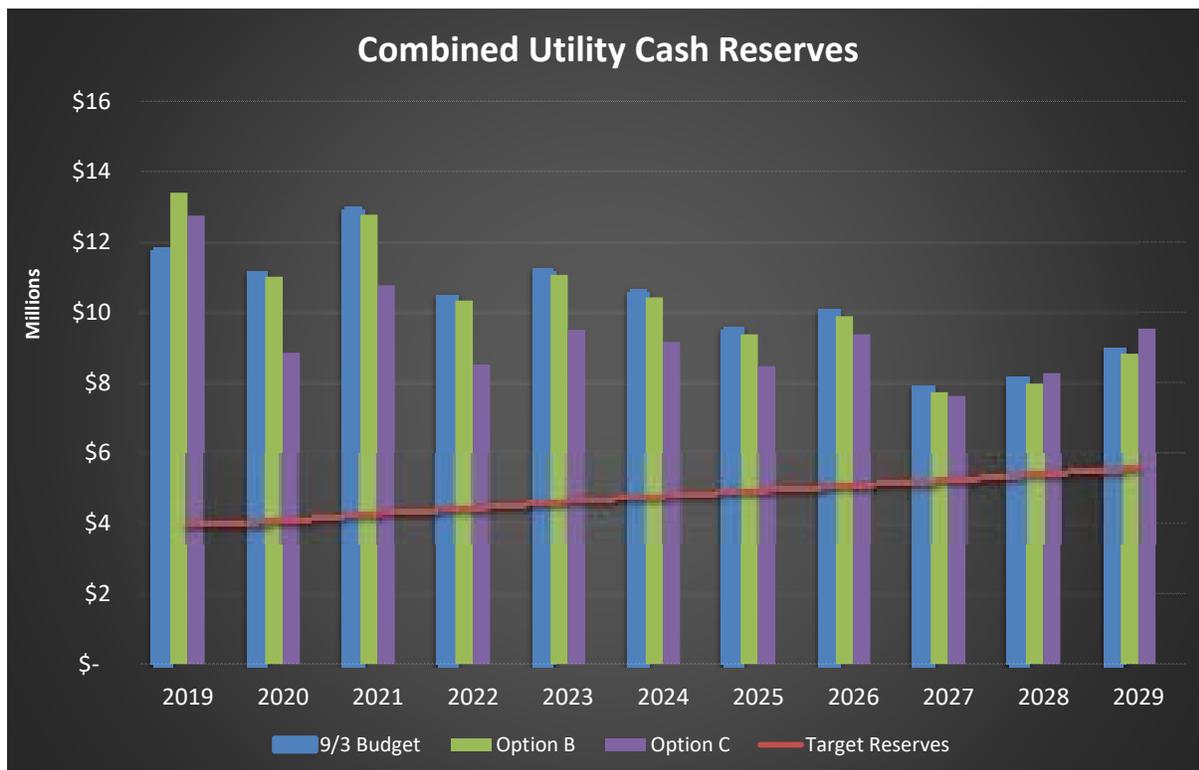
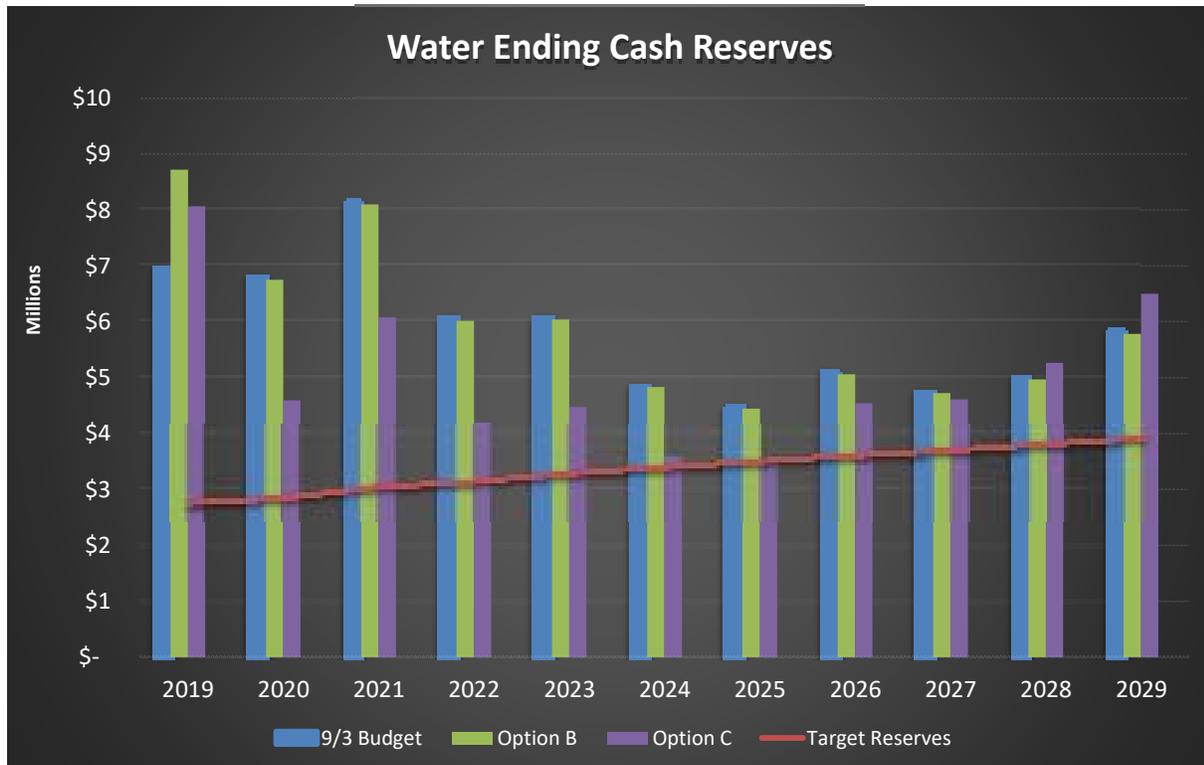
YOY Monthly Revenue (4)



The trends of Revenue Running Sum and Consumption Running Sum for Month. Color shows details about Year. The view is filtered on Year, which keeps 2015, 2016, 2017, 2018 and 2019.

BUDGET ADJUSTMENT

DIVISION	ACCOUNT TYPE	2020 - Total	2020 - Amendment	2020 - Original	2019 - Total	2019 - Amendment	2019 - Original	2019 - YTD	2018 - Actual
Option A - Proposed 2020 Budget (9/3 Council Meeting)									
Wastewater Treatment Plant Operations	Professional Services - Consulting	\$ 100,000	\$ 90,000	\$ 10,000	\$ 55,000	\$ -	\$ 55,000	\$ -	\$ -
Water Plant Operations	Professional Services - Information Systems	\$ 40,000	\$ 30,000	\$ 10,000	\$ 40,000	\$ -	\$ 40,000	\$ 17,114	\$ 20,070
Wastewater Treatment Plant Operations	Operating Supplies - Chemicals	\$ 110,250	\$ 20,250	\$ 90,000	\$ 105,000	\$ -	\$ 105,000	\$ 79,068	\$ 57,291
Wastewater Treatment Plant Operations	Professional Services - Biosolids Hauling	\$ 99,000	\$ 14,000	\$ 85,000	\$ 96,000	\$ -	\$ 96,000	\$ 71,780	\$ 91,597
Water Plant Operations	Professional Services - Lead/Copper	\$ 13,500	\$ 13,500	\$ -	\$ 12,000	\$ -	\$ 12,000	\$ 97	\$ 7,380
Wastewater Treatment Plant Operations	Dues/Subscriptions/Books	\$ 15,300	\$ 13,300	\$ 2,000	\$ 15,000	\$ -	\$ 15,000	\$ 18,245	\$ 2,163
Water Plant Operations	Operating Supplies - Laboratory	\$ 31,500	\$ 11,500	\$ 20,000	\$ 30,000	\$ -	\$ 30,000	\$ 15,005	\$ 22,596
Water Distribution	Parts/Repairs/Maintenance - Utility Lines	\$ 25,000	\$ 10,000	\$ 15,000	\$ 35,000	\$ -	\$ 35,000	\$ 15,574	\$ 17,435
CIP	Waterline Replacement	\$ 1,273,000	\$ 400,000	\$ 873,000	\$ 1,844,000	\$ -	\$ 1,844,000	\$ 410,468	n/a
CIP	NCWCD SWSP Eastern Pump Station	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ (93,000)	\$ 93,000	\$ -	n/a
OPTION B: New Projects (Scheduled for Council but not reflected in the budget)									
CIP - W	Disinfection	\$ -	\$ -	\$ -	\$ 863,010	\$ 454,970	\$ 408,040	\$ 35,231	n/a
CIP - W	Meters - Pilot Program	\$ 40,600	\$ 40,600	\$ -	\$ 168,000	\$ -	\$ 168,000	\$ 164,317	n/a
CIP - W	NCWCD-Windy Gap Firming Project	\$ 2,500,000	\$ 1,753,000	\$ 747,000	\$ 315,000	\$ (2,185,000)	\$ 2,500,000	\$ 315,000	n/a
CIP - WW	Replacement High Pressure Sewer Cleaner	\$ -	\$ -	\$ -	\$ 290,000	\$ 30,000	\$ 260,000	\$ -	n/a
Wastewater Pretreatment	Professional Services - Consulting	\$ -	\$ -	\$ -	\$ 101,000	\$ 75,000	\$ 26,000	\$ 17,114	n/a
OPTION C: New Projects (Still in designed with preliminary cost estimates, not reflected in the budget)									
CIP - W	NCWCD SWSP Transmission Capacity	\$ 2,900,000	\$ 1,576,000	\$ 1,324,000	\$ 287,000	\$ -	\$ 287,000	\$ -	n/a
CIP - W	SCWTP Upgrades - Admin Building	\$ 650,000	\$ 650,000	\$ -	\$ 550,700	\$ -	\$ 550,700	\$ -	n/a



2020 Rate Comparison

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2028
2019 Rate (Approved 3/19 Council Meeting)											
WATER	0%	1.2%	1.6%	1.7%	1.8%	1.8%	1.8%	1.9%	1.9%	1.9%	
SEWER	7%	4.0%	4.0%	4.0%	3.5%	3.1%	3.1%	3.1%	3.2%	3.2%	
STORM	18.5%	18.5%	4.0%	4.0%	3.0%	3.0%	3.0%	3.0%	1.7%	1.7%	
Option A - Proposed 2020 Budget (9/3 Council Meeting)											
WATER - O&M	0.3%	1.5%	1.8%	1.8%	1.8%	1.8%	1.8%	1.9%	1.9%	2.0%	2.0%
WATER - CIP	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
WATER - TOTAL	0.3%	1.5%	1.8%	1.8%	1.8%	1.8%	1.8%	1.9%	1.9%	2.0%	2.0%
DIFF FROM 2019	-0.9%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	
SEWER - O&M	1.9%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
SEWER - CIP	1.6%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.7%	1.7%
SEWER - TOTAL	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.2%	3.2%
DIFF FROM 2019	-0.5%	-0.5%	-0.5%	0.0%	0.4%	0.4%	0.4%	0.4%	0.3%	0.0%	
STORM - O&M	0.2%	0.9%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%	0.8%
STORM - CIP	13.8%	3.1%	3.2%	2.2%	2.2%	2.2%	2.2%	2.2%	0.0%	0.0%	0.0%
STORM - TOTAL	14.0%	4.0%	4.0%	3.0%	3.0%	3.0%	3.0%	3.0%	0.8%	0.8%	0.8%
DIFF FROM 2019	-4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.9%	-0.9%	
Option B - (Option A + Proposed New or \$600k)											
WATER - CIP	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
WATER - TOTAL	0.3%	1.5%	1.8%	1.8%	1.8%	1.8%	1.8%	1.9%	1.9%	2.0%	2.0%
DIFF FROM 2019	-0.9%	-0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	
SEWER - CIP	1.6%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.7%	1.7%
SEWER - TOTAL	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.5%	3.2%	3.2%
DIFF FROM 2019	-0.5%	-0.5%	-0.5%	0.0%	0.4%	0.4%	0.4%	0.4%	0.3%	0.0%	
Option C - (Option B + SWSP and Admin Building or \$2.2M)											
WATER - CIP	0.9%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%
WATER - TOTAL	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%	1.9%	1.9%	1.9%	2.0%
DIFF FROM 2019	1.3%	0.9%	0.8%	0.7%	0.7%	0.7%	0.7%	0.0%	0.0%	0.0%	
ASSUMPTIONS:											
<ul style="list-style-type: none"> • 20% or \$1.2M reduction in 2019 Water Revenue (based on August billing of \$2.8M vs 2018 of \$4.1M) • Cash Reserves of 33% of the Total O&M • Combined funds for debt service coverage ratio • Rate Minimum set to recover annual cost different in O&M (diff adjusted to removed one time increases) • Tap fee revenue delayed by one year 											

2020 TAP FEES

	2014 (Jun 25)	2016 (Oct 1)	Diff 2014 and 2016	Proposed 2020 (Facilities Only)	Proposed 2020 (Opt 1)	Diff 2016 and proposed 2020	Proposed 2020 (Opt 2)	Diff 2016 and proposed 2020	Proposed 2020 (Opt 3)	Diff 2016 and proposed 2020
CBT VALUE	\$17,000	\$24,000			\$40,000		\$50,000		\$60,000	

WATER TAP FEES

3/4"	\$25,900	\$30,500	\$4,600	\$14,100	\$42,300	\$11,800	\$49,300	\$18,800	\$56,400	\$25,900
1"	\$46,200	\$54,400	\$8,200	\$25,100	\$75,300	\$20,900	\$87,800	\$33,400	\$100,400	\$46,000
1.5"	\$103,600	\$122,000	\$18,400	\$56,400	\$169,200	\$47,200	\$197,200	\$75,200	\$225,600	\$103,600
2"	\$184,300	\$217,000	\$32,700	\$100,300	\$300,900	\$83,900	\$350,600	\$133,600	\$401,100	\$184,100
3"	\$414,400	\$488,000	\$73,600	\$225,600	\$676,800	\$188,800	\$788,800	\$300,800	\$902,400	\$414,400
4"	\$736,700	\$867,500	\$130,800	\$401,100	\$1,203,200	\$335,700	\$1,402,200	\$534,700	\$1,604,200	\$736,700

SEWER TAP FEES

3/4"	\$4,400	\$4,600	\$200	n/a	\$5,200	\$600				
1"	\$7,900	\$8,200	\$300	n/a	\$9,300	\$1,100				
1.5"	\$17,600	\$18,400	\$800	n/a	\$20,800	\$2,400				
2"	\$31,300	\$32,800	\$1,500	n/a	\$37,000	\$4,200				
3"	\$70,400	\$73,600	\$3,200	n/a	\$83,200	\$9,600				
4"	\$125,200	\$130,900	\$5,700	n/a	\$147,900	\$17,000				

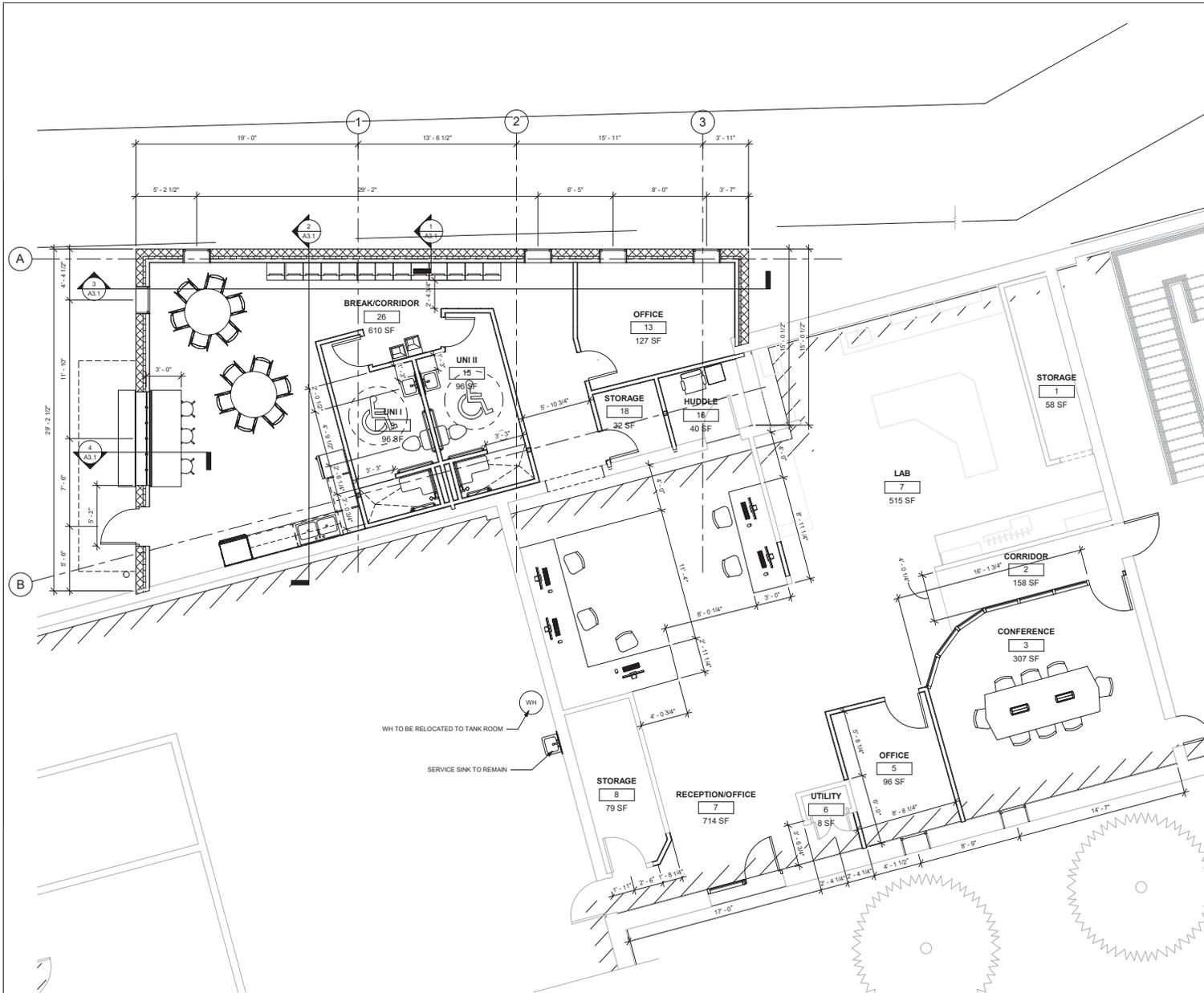
SURROUNDING COMMUNITIES

	Water (3/4")	Sewer
Lafayette*	\$29,566	\$5,300
Broomfield	\$23,577	\$12,559
Erie*	\$30,380	\$5,200
Superior	\$23,340	\$4,320
Boulder	\$17,898	\$4,456

*includes cash in-lieu fee for water rights

CIP UPDATE 9-13-19

PROJECTS	BUDGET	STATUS
WATER		
Replace Tube Settlers	\$380,746	Complete
Raw Water Line Lowering	\$3,000	Complete
WTP Boat and Trailer	\$25,000	Complete
Water Utility Truck	\$80,000	Complete
HBWTP Upgrades	\$197,220	Complete
SCWTP Upgrades	\$27,770	Complete, processing final payment
Watershed Protection Plan	\$10,000	Plan complete, BMP implementation
Water Plants Disinfection	\$407,621	Contract Approval to Council 9/17, consutrction into 2020
Howard Diversion	\$128,700	Design, construction this Winter
System Water Loss Audit	\$42,000	Finalizing report
2019 Waterline	\$1,844,000	Construction, 85% complete
SCWTP Building Upgrades	\$523,000	Design, bid this Fall
SBR Ditch Lining	\$170,200	Delayed until 2020
SCWTP Lower Recycle Pond	\$86,000	Design, construction budget not defined
Water Tank Maintenance	\$92,600	Bidding next month for Fall construction
Louisville Pipeline Flow Control	\$419,355	Permitting, construction Oct-Nov
Hi Zone Water Loop	\$42,230	Reimbursement for developer performed work
NCWCD-Windy Gap Firming Project	\$2,500,000	Bidding, remaining payment in 2020
NCWCD-SWSP Eastern Pump Station	\$93,000	Delayed until 2020
SWSP Transmission Capacity	\$287,000	Design, bid EOY for construction 2020
Vehicle & Equipment Replacement	\$190,500	One vehicle remaining
PRV Replacement	\$75,000	Delayed until 2020
Fluoride Equipment Replacement	\$105,000	Design award
Excavation Shoring Box	\$9,000	Obtaining quotes
Barricades and Trailer	\$5,000	Obtaining quotes
Meter Pilot Programs	\$168,000	Program implementation
Fire Hydrant Painting	\$44,690	In process, 70% complete
SCADA	\$36,000	In process, 60% complete
Utility Trailer	\$4,650	Obtaining quotes
WASTEWATER		
Asphalt Addition	\$50,000	Complete
2018 Sewer Line Replacement	\$1,034,070	Punchlist, legal action
Local Limits	\$25,000	Design
Steel Ranch Lift Station	\$50,000	Evaluation process
2019 Sewer Utility Line Replacement	\$498,000	Construction, 90% complete
Sewer Video	\$100,000	Construction, 70% complete
Reuse System Equipment Replacement	\$32,000	Construction, 50% complete
Vehicle & Equipment Replacement	\$62,000	Obtaining quotes
Vibration Monitoring	\$40,000	Rebidding, possible delay
Digester Control Improvements	\$100,000	Rebidding, possible delay
Sanitary Sewer Maintenance Equipment	\$260,000	Contract Approval to Council 9/17
Influent Pump Addition	\$72,000	Contract award, delayed to align with Aeration Basin project
Digester and Reuse Lighting Improvements	\$40,000	Rebidding, possible delay
Aeration Basin and Reuse mixers	\$150,000	Rebidding
TSS Probes	\$45,000	Rebidding, possible delay
Vac Dump Station	\$235,000	Rebidding, possible delay
Excavation Shoring Box	\$3,000	Obtaining quotes
Portable Lift Station Pump	\$50,000	Obtaining quotes
Barricades and Trailer	\$5,000	Obtaining quotes
Utility Trailer	\$4,650	Obtaining quotes
STORM		
Snow Plow/Dump Truck Replacement	\$56,000	Complete
Detention Pond Maintenance	\$121,500	In process
Drainageway G	\$150,000	Incorporated with RxR Quiet Zones and area development
Stormwater Quality Masterplan	\$100,000	Design
Utility Trailer	\$4,650	Obtaining quotes



- PLAN NOTES**
1. REFER TO GENERAL NOTES & SPECIFICATIONS FOR REQUIREMENTS
 2. NOTATION: (E) = EXISTING, (N) = NEW, (WF) = VERIFY IN FIELD
 3. VERIFY ALL DIMENSIONS SHOWN IN FIELD PRIOR TO ORDERING MATERIAL OR STARTING WORK
 4. CONTRACTOR SHALL CONFIRM ALL FINISHES w/ OWNER PRIOR TO BID.
 5. CONTRACTOR TO DISPOSE OF ALL (E) DEMOLITION MATERIAL UNLESS DIRECTED OTHERWISE BY OWNER OR AS NOTED ON DRAWINGS.
 6. (E) STRUCTURE TO REMAIN UNALTERED. ALL (E) STRUCTURAL COLUMNS TO REMAIN.
 7. ALL (E) STRUCTURAL HSS4x4 UPPER LEVEL SUPPORT COLUMNS, TO REMAIN
 8. SEE A3.0 FOR WALL SCHEDULE AND INTERIOR FRAMING DETAILS
 9. SEE A3.0 FOR WALL SCHEDULE AND INTERIOR FRAMING DETAILS
 10. ALL WALL DIMENSIONS ARE TO FACE OF FINISH

- LEGEND**
- EXISTING WALL/PARTITION TO REMAIN
 - - - EXISTING WALL/PARTITION TO BE REMOVED
 - - - EXISTING DOOR TO REMAIN
 - - - EXISTING DOOR TO BE REMOVED

- KEYED NOTES**
- 1
 - 2
 - 3

LOUISVILLE SCWTP ADMIN BLDG.
1955 Washington Ave, Louisville, CO 80027

AEC-WEST
CONSULTANTS, INC.
4605 Quebec Street, Unit B8, Denver, Colorado 80216
Phone: (303) 377 6963 www.AEC-WEST.com

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	8-2-19	60% CD

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION
1	8-2-19	60% CD

Project Number: JPH1821

PLAN VIEW (REMODEL)

A1.03

1 First Floor (REMODEL)
1/4" = 1'-0"