



WATER OPERATING BOARD

Monday, November 20, 2023, 3:00 PM
C&ED Conf Room
Longview City Hall
1525 Broadway Longview, WA 98632

AGENDA

The Water Operating Board will discuss and take action as appropriate on the following matters:

The City Hall is accessible for persons with disabilities. Special equipment to assist the hearing impaired is also available. Please contact the City Executive Office at 360.442.5004 48 hours in advance if you require special accommodations to attend the meeting.

To attend the meeting virtually, use the link or information below:

1. **ROLL CALL**
2. **MINUTES**
23-001724 September 27, 2023 minutes
3. **PUBLIC COMMENT**
4. **WATER PRODUCTION/CONSUMPTION REVIEW**
23-001725 Consumption vs. Connections
Electric vs. Consumption
5. **FINANCIAL REVIEW**
6. **WHOLESALE WATER RATE**
23-001726 Wholesale water rate analysis and direction to staff
7. **WATER SUPPLY, TREATMENT, AND DISTRIBUTION**
23-001727 Project Updates
8. **FILTER PLANT CONSTRUCTION BUDGET**
23-001728 Operating budget
9. **TREATMENT PLANT OPERATING REPORT**
10. **OTHER BUSINESS**
23-001729 General Discussion
Direction to staff as appropriate

City of Longview: Ruth Kendall, Mike Wallin

Staff

Ken Hash, Chris Collins, John Axford, Brian Steveson, Thomas Daly, Lisa Vertrees





City of Longview

Agenda Summary

September 27, 2023 minutes

Attachments:

1. WOB minutes 092723



WATER OPERATING BOARD

Wednesday, September 27, 2023, 3:00 PM
C&ED Conf Room
Longview City Hall
1525 Broadway Longview, WA 98632

MINUTES

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Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 230 548 658 107

Passcode: rWv9Rq

[Download Teams](#) | [Join on the web](#)

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1. ROLL CALL

Water Operating Board:

Representatives

Beacon Hill Water & Sewer District: Dell Hillger (Chairman)

City of Longview: Ruth Kendall, Mike Wallin

Staff

Ken Hash, Chris Collins, Brian Steveson, Thomas Daly, Lisa Vertrees

2. MINUTES

23-001522 October 18, 2022 minutes

A motion was made by Member Ruth Kendall, seconded by Member Mike Wallin, to approve the October 18, 2022 meeting minutes. The motion passed unanimously.

3. PUBLIC COMMENT

Three citizens were in attendance to listen and learn.

4. WATER PRODUCTION/CONSUMPTION REVIEW

23-001529 Production/Consumption reports

Ken Hash reviewed the report.

Members thought a business-to-residential comparison may be helpful, along with how residential consumption has changed over time, how many residences there are, meter sizes, etc.

Future water main replacements are not good indicators of use. However, newer meters are being installed that capture more information and more accurately.

5. FINANCIAL REVIEW

23-001524 2023 - 2024

Currently under budget.

Hypo has gone up \$3000 a load. The treatment plant bags were cleaned. They are more cost effective than a screw press at the moment.

6. WHOLESALE WATER RATE

23-001525 Wholesale water rate analysis and direction to staff

Chairman Hillger proved some history of the rate and how we got there.

The Board directed staff to apply some of the excess fund balance to capital projects.

7. WATER SUPPLY, TREATMENT, AND DISTRIBUTION

23-001526 Project Updates:

- 1. Hypo tank**
- 2. Well house stabilization**
- 3. Equipment storage building**

Brian Steveson provided an explanation of the #1 pump rebuild.

An additional hypo tank will allow more storage and prevent issues over long weekends or supply.

Considering a sole source agreement with HASA to provide hypo.

The movement of the well house has slowed and staff is continuing to monitor it. Another well house issue is protection of electrical equipment. It should be relocated to outside of the pump house.

Gibbs and Olsen can provide some preliminary budget numbers for the November meeting.

Flow meters should also be relocated away from the pumps and could be moved with the electrical equipment. Flow meter inaccuracies can mess up the chemicals, send out bad water, mess up VFD operation.

The equipment storage building is necessary build.

8. FILTER PLANT 2023-2024 CONSTRUCTION BUDGET

9. TREATMENT PLANT OPERATING REPORT

Consumption is down, year-to-date.

There is now a full Filter Plant crew. We are a Level 3 plant, which requires certain certifications.

PFOS was discussed. The PFOS in Longview's water is undetectable.

10. PARTICIPANTS' AGREEMENT

23-001530 Agreement

Chairman Hillger explained the history of the Participants' Agreement.

The updated Agreement will go to City Council on October 12, 2023.

11. OTHER BUSINESS

23-001527

- 1. General discussion of water treatment, distribution and Water Operating Board matters**
- 2. Direction to staff as appropriate**

The old Fishers Lane Treatment plant is currently being demolished.

Direction to staff:

Figure how much to spend down the fund balance

Provide updated costs at the November meeting

Show improvements that impact operational costs

Provide some analysis of the VFD improvements - electricity savings, dump fees, etc.

The next Water Operating Board meeting is scheduled for November 20, 2023 at 3:00 p.m.

With no further business to discuss, the meeting adjourned at 4:15 p.m.

Dell Hillger, Chairman

Lisa Vertrees, Clerk of the Board

Water Operating Board:

Representatives

Beacon Hill Water & Sewer District: Dell Hillger (Chairman)

City of Longview: Ruth Kendall, Mike Wallin

Staff

Ken Hash, Chris Collins, John Axford, Brian Steveson, Thomas Daly, Lisa Vertrees



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City of Longview

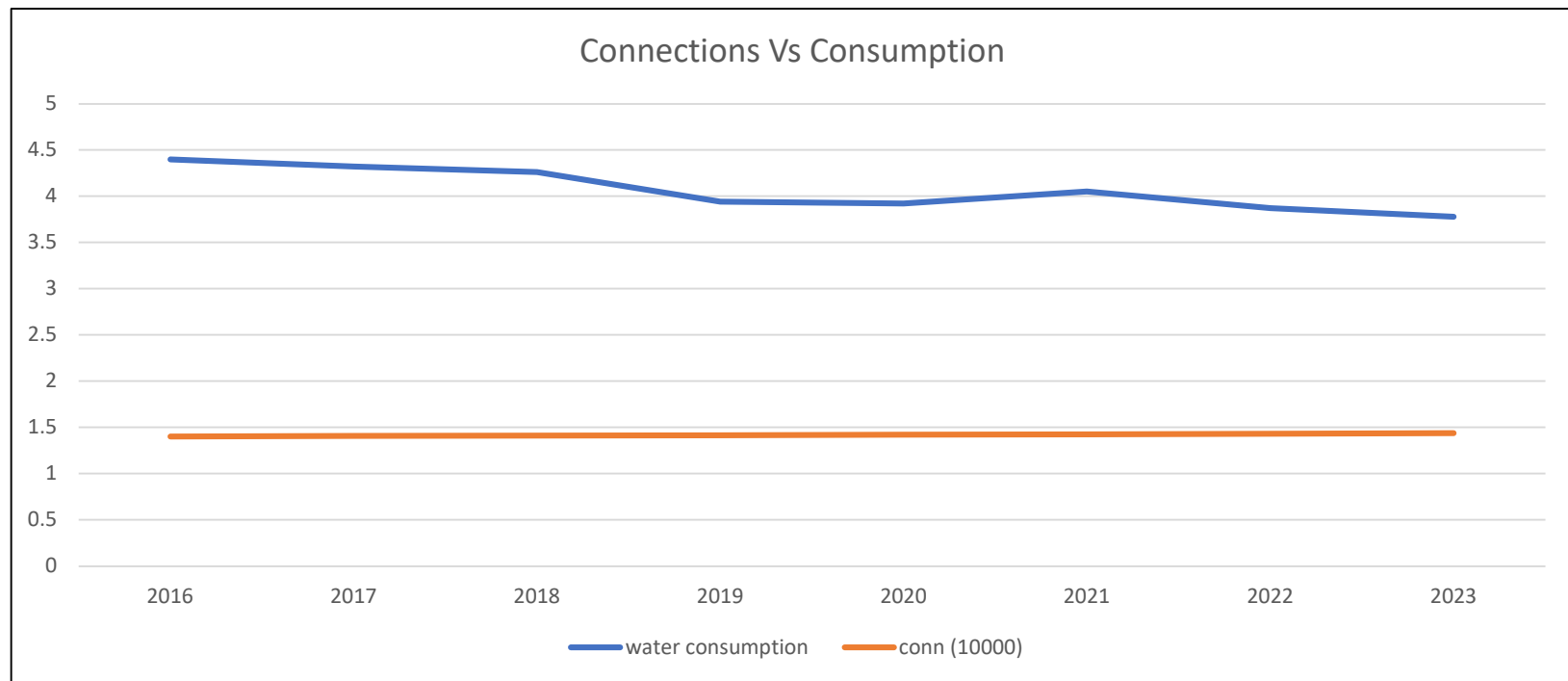
Agenda Summary

Consumption vs. Connections Electric vs. Consumption

Attachments:

1. consumption vs connections
2. elec vs conump
3. elc vs con 2

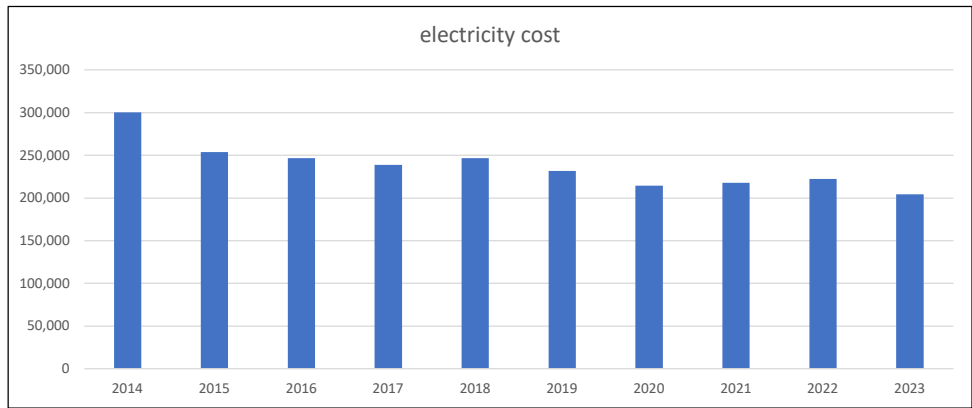
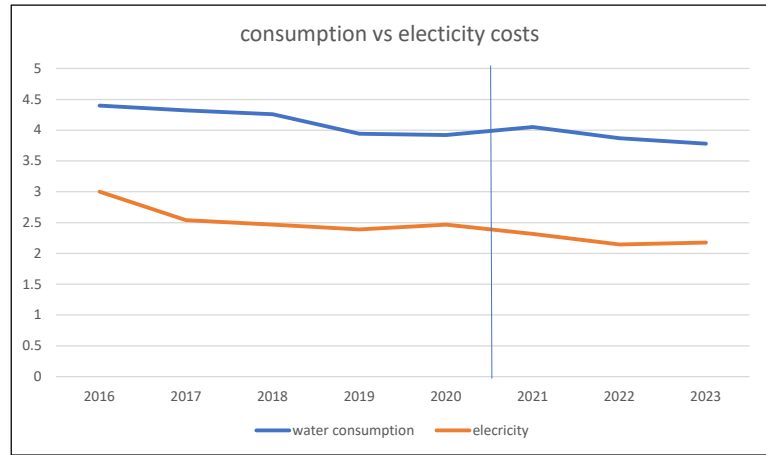
year	2016	2017	2018	2019	2020	2021	2022	2023	2024
connections	14024	14056	14105	14146	14192	14225	14303	14389	14419
added connections	32	49	41	46	33	78	86	30	
water consumption	4.4	4.32	4.26	3.94	3.92	4.05	3.87	3.78	
conn (10000)	1.4024	1.4056	1.4105	1.4146	1.4192	1.4225	1.4303	1.4389	1.4419



Electricity vs. water consumption by year

year	2016	2017	2018	2019	2020	2021	2022	2023
water consumption	4.4	4.32	4.26	3.94	3.92	4.05	3.87	3.78
electricity	3.00	2.54	2.47	2.39	2.47	2.32	2.15	2.18

February VFD's are on line

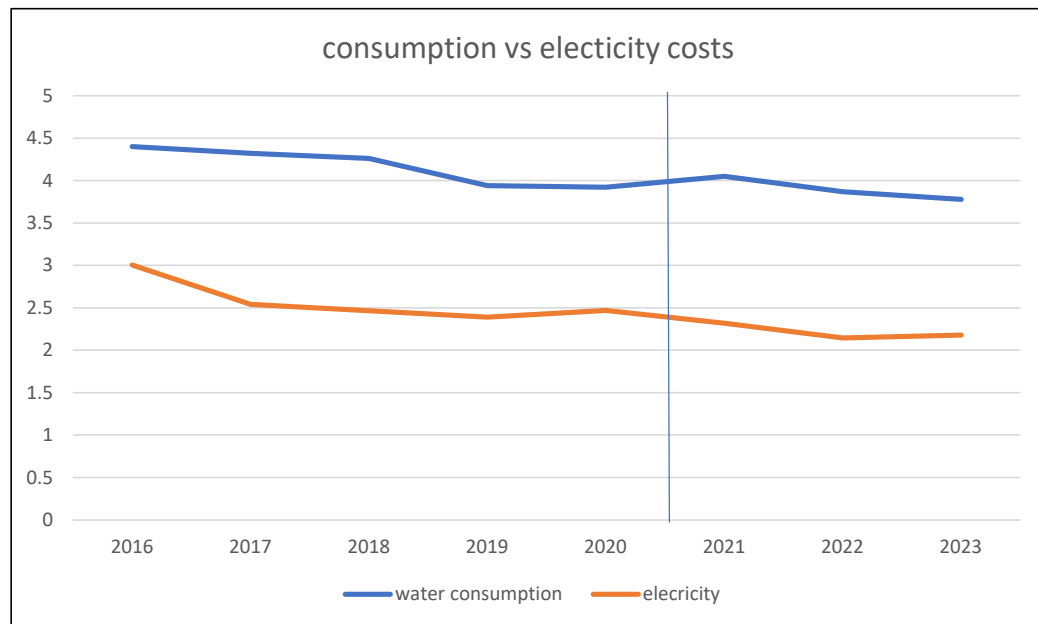


year	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
electricity cost	300,388	253,904	246,687	239,002	246,824	231,656	214,624	217,736	222,341	204,343

Electricity vs. water consumption by year

year	2016	2017	2018	2019	2020	2021	2022	2023
water consumption	4.4	4.32	4.26	3.94	3.92	4.05	3.87	3.78
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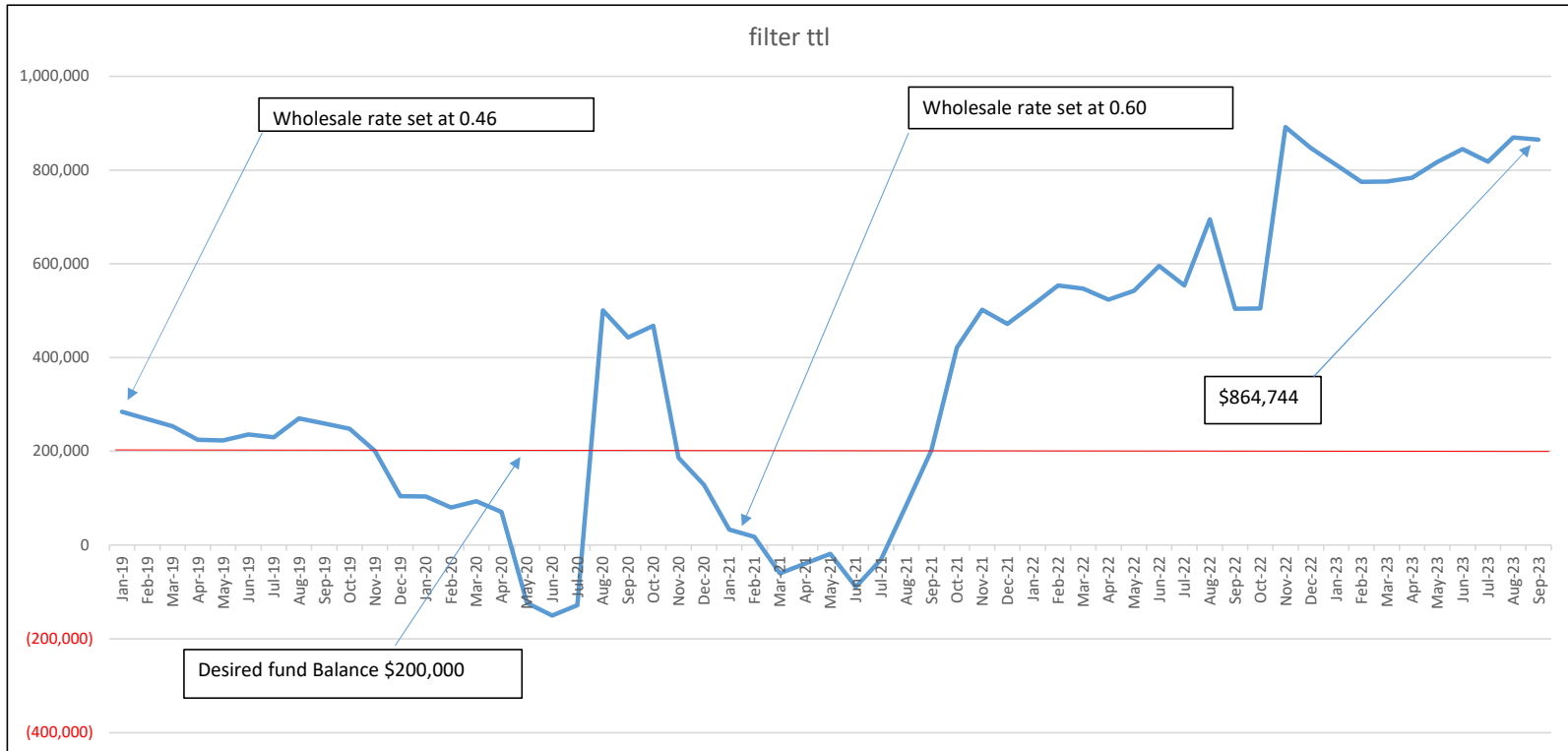
City of Longview

Agenda Summary

Wholesale water rate analysis and direction to staff

Attachments:

1. whole sale rate chart 2





City of Longview

Agenda Summary

Project Updates

Attachments:

1. Filter Plant Projects update 11_23

FILTER PLANT PROJECTS UPDATE

Ken Hash, PE
Chris Collins
Brian Steveson

November 20, 2023



FILTER PLANT PROJECTS UPDATE

• Additional Hypochlorite Tank	\$200,000
• Mint Farm RWTP Pump Rebuild	\$ 60,000
• Equipment Storage Building	\$200,000
• SCADA PLC	\$300,000
• Well House Stabilization	\$100,000
• Pump House – Flow Meters & Heat Protection	\$300,000





City of Longview

Agenda Summary

Operating budget

Attachments:

1. operating budget

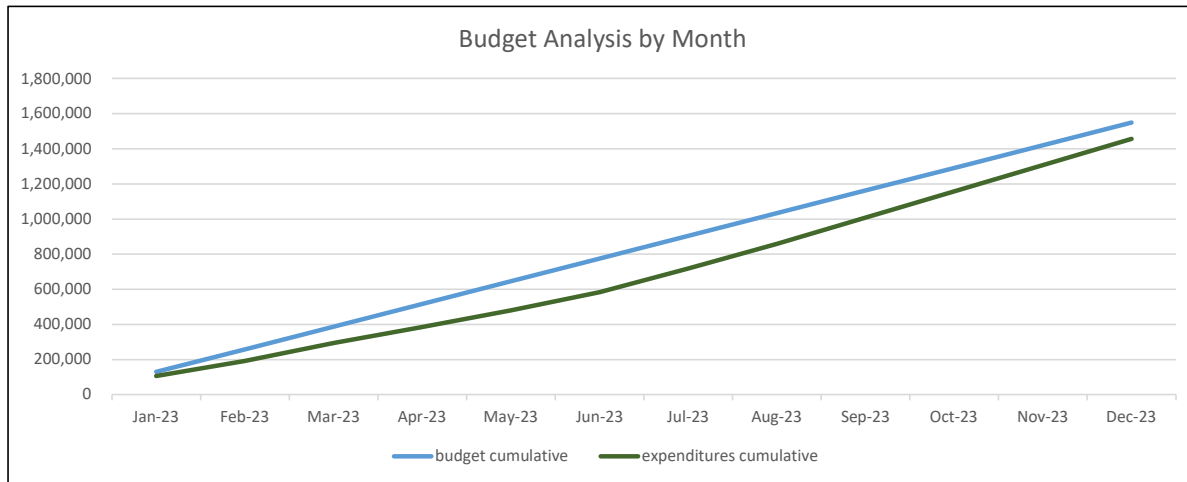
Filter 2023
Budget analysis by month

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	total
budget cumulative	129,165	258,330	387,495	516,660	645,825	774,990	904,155	1,033,320	1,162,485	1,291,650	1,420,815	1,549,980	
expenditures cumulative	106,621	191,894	294,526	385,362	480,263	583,016	718,414	858,580	1,008,197	1,157,246	1,307,114	1,456,982	
	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	

Blue numbers are projected.

Categories underrunning the budget

salaries 35,000
 electricity 71,743
 repairs 14,753





City of Longview

Agenda Summary

General Discussion

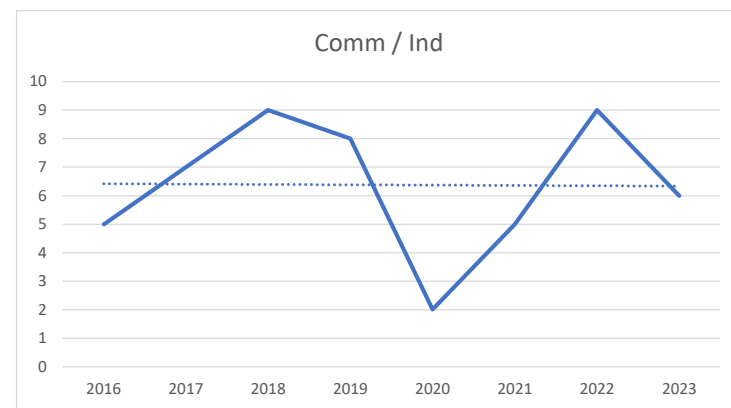
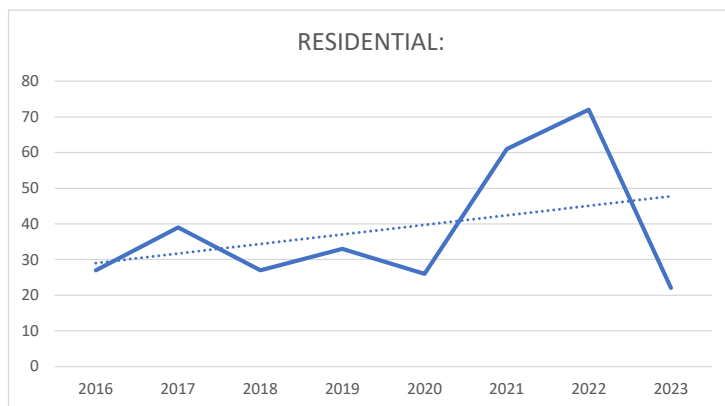
Direction to staff as appropriate

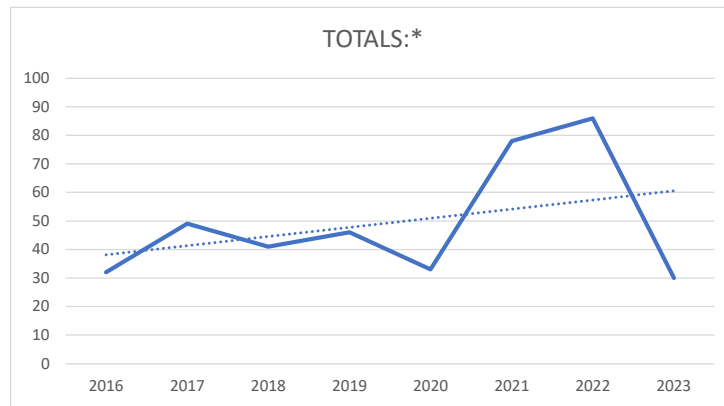
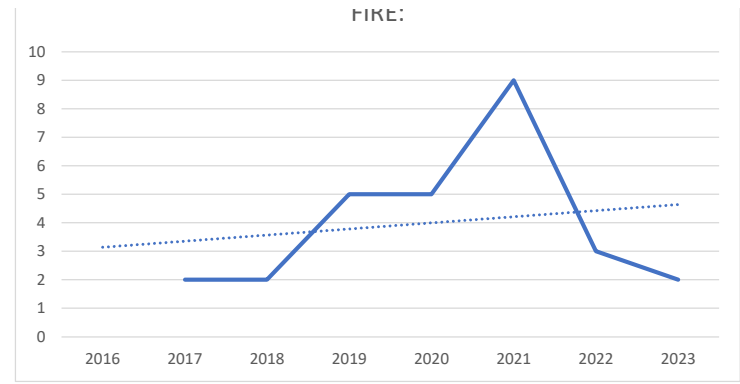
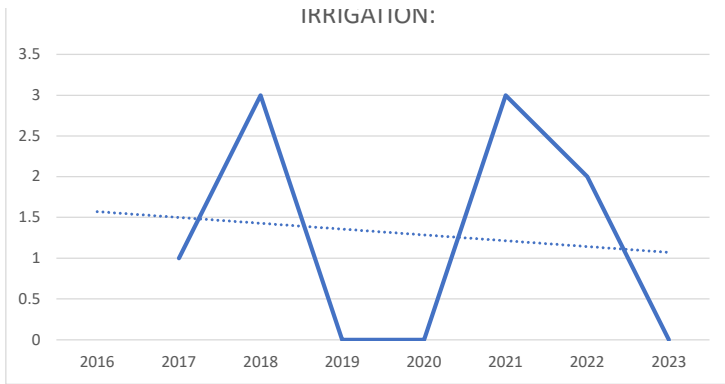
Attachments:

1. METER-FLOW BOARD QUERIES NOV 2023 - ken
2. NOV 2023 WOB - CONN PERMITS BY YEAR
3. NOV 2023 WOB - FLOW SUMMARY
4. NOV 2023 WOB - METER COUNT BY SIZE

CONNECTION PERMITS, 2016 - 2023											
			2016	2017	2018	2019	2020	2021	2022	2023	*TOTAL, 2016 - 2023
	RESIDENTIAL:		27	39	27	33	26	61	72	22	307
	COMM / INDUSTRIAL:		5	7	9	8	2	5	9	6	51
	IRRIGATION:			1	3	0	0	3	2	0	9
	FIRE:			2	2	5	5	9	3	2	28
	TOTALS:*		32	49	41	46	33	78	86	30	395

*INCLUDES BOTH WATER-SEWER, WATER-ONLY, AND SEWER-ONLY CONNECTIONS. WATER-ONLY IS COMMON OUTSIDE THE CITY LIMITS; SEWER-ONLY CONNECTIONS ARE RARE, INSIDE OR OUTSIDE THE CITY LIMITS.





CONNECTION PERMITS, 2016 - 2023											
			2016	2017	2018	2019	2020	2021	2022	2023	*TOTAL, 2016 - 2023
										JAN-OCT	
	RESIDENTIAL:		27	39	27	33	26	61	72	22	307
	COMM / INDUSTRIAL:		5	7	9	8	2	5	9	6	51
	IRRIGATION:			1	3	0	0	3	2	0	9
	FIRE:			2	2	5	5	9	3	2	28
	TOTALS:*		32	49	41	46	33	78	86	30	395

*INCLUDES BOTH WATER-SEWER, WATER-ONLY, AND SEWER-ONLY CONNECTIONS. WATER-ONLY IS COMMON OUTSIDE THE CITY LIMITS; SEWER-ONLY CONNECTIONS ARE RARE, INSIDE OR OUTSIDE THE CITY LIMITS.

FLOW SUMMARY (LONGVIEW ONLY - EXCLUDES BHWSO AND KELSO)									
YEAR	TOTAL RESIDENTIAL		IRRIGATION		COMMERCIAL / INDUSTRIAL**		OTHER***		TOTAL FLOW, SUMMED FROM METERED DELIVERY
	FLOW	PERCENT OF TOTAL	FLOW	PERCENT OF TOTAL	FLOW	PERCENT OF TOTAL	FLOW	PERCENT OF TOTAL	
2006	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0.00
2013	1,177,653	69.7%	35,469	2.1%	363,769	21.5%	112,867	6.7%	1,689,758
2015	1,204,711	67.4%	53,462	3.0%	408,655	22.9%	120,987	6.8%	1,787,815
2022	1,097,097	62.8%	36,230	2.1%	478,445	27.4%	134,442	7.7%	1,746,214

NOTES:

1. - THE ENERGY POLICY ACT OF 1992 MANDATED LOW-FLOW FIXTURES. RESIDENTIAL REQUIREMENTS TOOK EFFECT IN JANUARY 1994, WITH COMMERCIAL FOLLOWING IN 1997.
 - YEARS REPORTED WERE SELECTED TO EVALUATE THE IMPACT OF THE 1992 ACT OVER TIME, AS THE REQUIREMENTS BEGAN TO SHOW RESULTS IN NEW CONSTRUCTION.
 - WATER CONSUMPTION ALSO VARIES WITH UTILITY COSTS, WEATHER, CONSUMER CONFIDENCE, CONSUMER CONSERVATION EDUCATION, AND TRENDS IN HOME DESIGN.

2. ALL FLOWS ARE REPORTED IN "UNITS." ONE UNIT = 100 CUBIC FEET, OR 748 GALLONS.

4. KEY DATES:

- 1991 - CITY BEGINS USE OF 'EDEN' SOFTWARE FOR TRACKING ACCOUNTS, METER READS, AND CUSTOMER CONSUMPTION. PREVIOUS DATA ARE NOT ACCESSIBLE.
- 1994 - RESIDENTIAL LOW-FLOW REQUIREMENTS UNDER THE 1992 ENERGY POLICY ACT TAKE EFFECT - FOR NEW CONSTRUCTION.
- 2005 - SIGNIFICANT 'EDEN' UPGRADES; DATA PRIOR TO 2005 DISRUPTED.
- 2015 - FIRST FULL YEAR OF WATER PRODUCTION AT THE MINT FARM FILTER PLANT
- 2022 - LAST FULL YEAR OF RECORDS

CITY OF LONGVIEW - METER DISTRIBUTIONS BY SIZE AND CUSTOMER CLASS						
METER SIZE*	TOTAL METERS BY SIZE (11-7-23 EDEN DATA)	RESIDENTIAL		IRRIGATION	COMMERCIAL / INDUSTRIAL**	OTHER***
		SFR / DUPLEX	MULTIFAMILY (3 D.U. AND UP)			
3/4"	13,325	12726	37	40	499	23
1"	636	221	213	1	187	14
1.5"	242	7	102	27	99	7
2"	163	2	46	20	83	12
3"	27		5	2	20	
4"	16		4		8	4
6"	3				3	
8"	7		1		6	
10"	0					
12"	0					
TOTALS:	14,419	12,956	408	90	905	60

CATEGORY AS PERCENT OF TOTAL: 89.85% 2.83% 0.62% 6.28% 0.42%

* CITY OF LONGVIEW METER SIZING IS GOVERNED BY LMC 15.48.010, ESTABLISHED BY ORD 1388 IN 1968. INDUSTRY GUIDANCE IS PROVIDED BY THE AWWA'S "SIZING WATER SERVICE LINES AND METERS," THIRD EDITION, 2014, AND BY THE UPC.

**COMMERCIAL / INDUSTRIAL INCLUDES RETAILERS, RESTAURANTS, AND INDUSTRIES

*** "OTHER" INCLUDES CHURCHES, HOSPITALS, SCHOOLS, AND CITY FACILITIES.