

Today's Objectives

- Provide wastewater upgrade process update
- Present Cost of Service Study results
- Review local limits and provide an Industrial Permit update
- Explain 2018 wastewater upgrade activities

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NWAG/Industrial Working Group Feedback

- When asked to choose just one alternative, NWAG members overwhelmingly favored Alternative 2.5
- Alternatives 2 and 2.5 were ranked the highest on comment sheets
 - NWAG members saw value in reusing water and the benefits to industry and/or irrigation customers
 - Members indicated the need to consider the future and long-term growth
- IWG is interested in developing recycled water program and sees potential in industrial reuse
- Alternatives 5 and 6 were ranked the lowest due to concerns with the risks associated

Direction from City Council

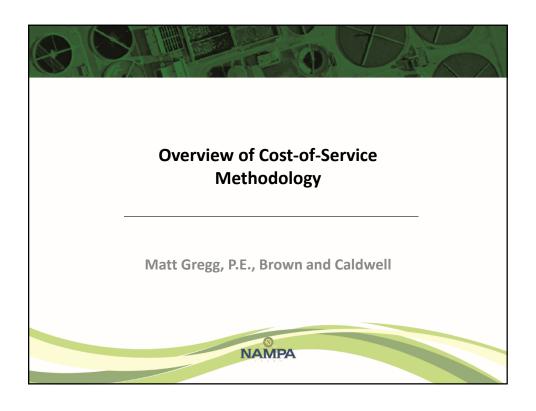
- Develop a recycled water program for Nampa to maximize the value of Nampa's treated water
- Look for opportunities to maximize the amount of water reused through a combination of industrial and irrigation reuse

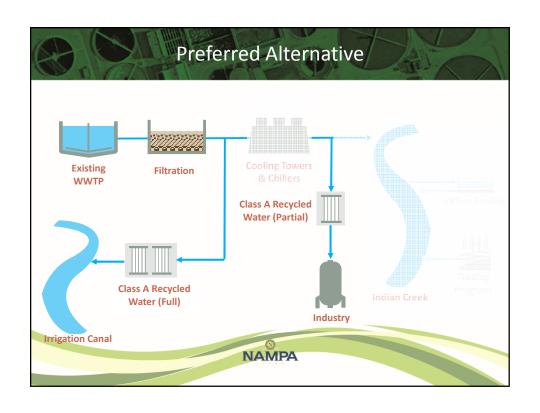


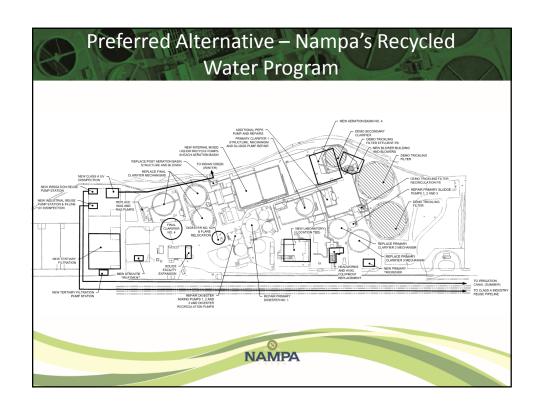
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Addressing Fatal Flaws for Irrigation Reuse

- City staff and Wastewater Program Management are working with irrigation districts and DEQ to allow for irrigation reuse
- Potential obstacles (fatal flaws) associated with discharge to an irrigation canal:
 - Developing an agreement with irrigation canal company to allow discharge
 - Negotiating a recycled water permit that meets the assumed conditions for temperature discharge

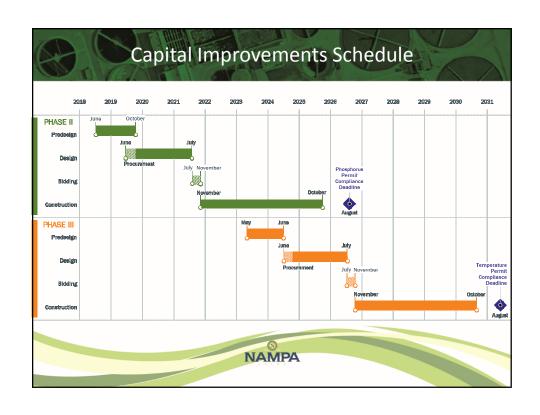


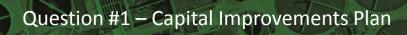






Capital Improvements Plan		
Project Component	Cost*	
Phase II Upgrades	\$108,957,000	
Phase III Upgrades	\$11,919,000	
Repair and Replacement Projects	\$13,223,000	
Programmatic Contingency	\$15,488,000	
TOTAL	\$149,587,000	
*Costs are presented in 2017 dollars.		
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Do you have any questions or comments regarding the capital improvements plan for Nampa's wastewater upgrade?

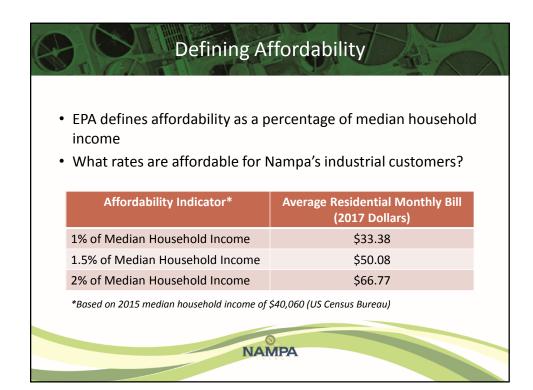
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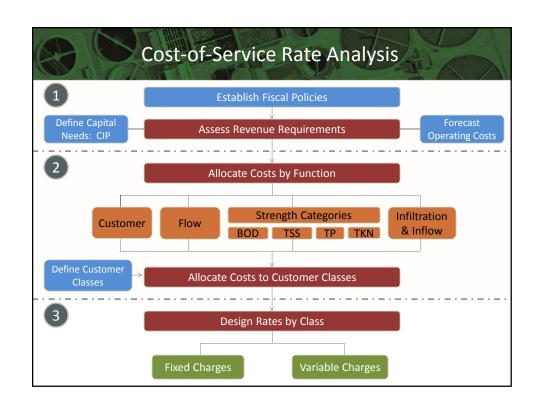
Reminder: Critical Success Factors

 Preserve our natural resources and our environment to promote a caring community where people live, work, play, worship, and raise their families



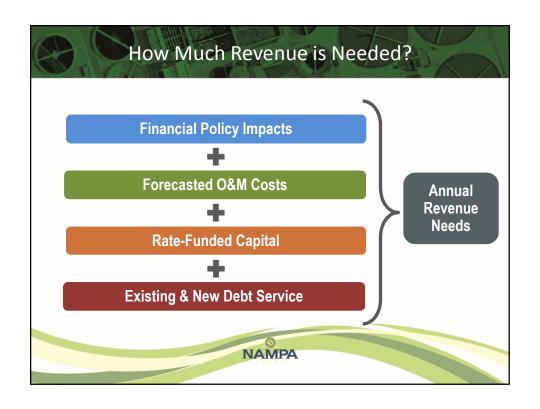
- 2. Provide a healthy, professional environment that empowers our employees to succeed
- 3. Maintain affordable wastewater service for rate payers through longterm, fiscally-sound decision-making
- 4. Stimulate economic development by efficient utilization of resources and providing sufficient utility capacity
- 5. Anticipate future regulatory requirements by considering economic ramifications to environmental action



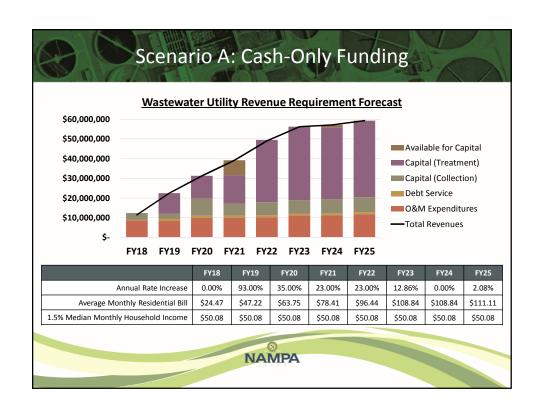


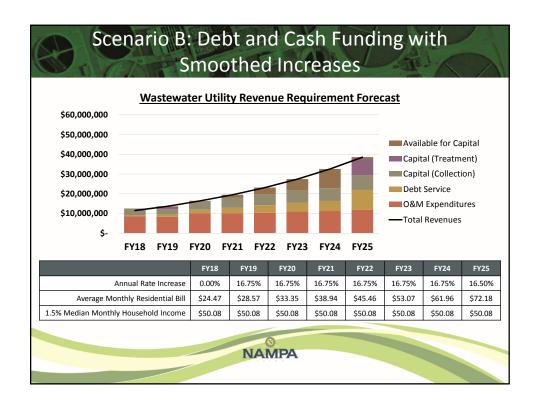
Overview of Revenue Requirement

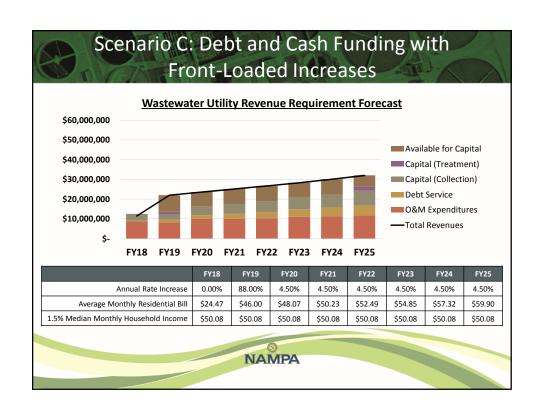
- Determines the amount of annual revenue necessary to meet all utility financial obligations
- Evaluates sufficiency of current rates on a standalone basis
- Develops annual rate adjustment strategy
 - Multi-year financial plan

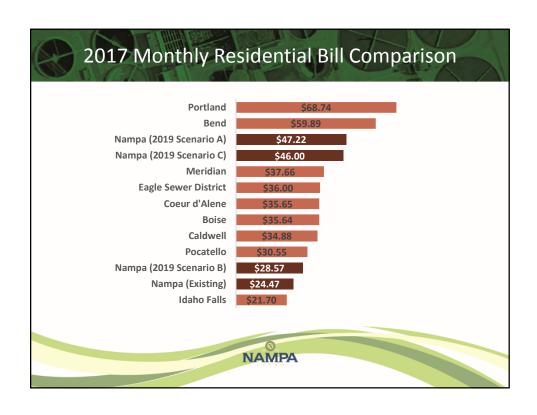


Rate Increase Scenarios	Funding Approach	Rate Increase Pattern
Scenario A – Cash-Only Funding	All cash funding	 Initial rate increase of 93% in FY19 Additional rate increases of 12- 35% between FY20 and FY23
Scenario B – Debt and	 Mix of cash and debt	 Consistent rate increases of
Cash Funding with	funding \$165M funded by debt	16.75% annually from FY19
Smoothed Increases	through 2025*	through FY25
Scenario C - Debt and	 Mix of cash and debt	 Initial rate increase of 88% in
Cash Funding with	funding \$145M funded by debt	FY19 Additional rate increases of
Front-Loaded Increases	through 2025*	4.5% between FY20 and FY25

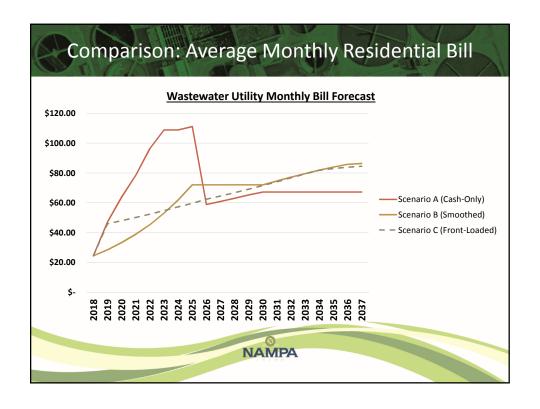








	2018	2019	2022	2025
Scenario A – Cash-Only Funding	\$100	\$214	\$437	\$504
Scenario B – Debt and Cash Funding with Smoothed Increases	\$100	\$135	\$215	\$341
Scenario C - Debt and Cash Funding with Front-Loaded Increases	\$100	\$217	\$248	\$283



What is your preferred approach for funding of the upgrades? 1) Scenario A – Cash-Only Funding 2) Scenario B – Debt and Cash Funding with Smoothed Increases 3) Scenario C - Debt and Cash Funding with Front-Loaded Increases

Role of Cost-of-Service Analysis

- · Allocates the revenue requirement among customer classes
 - Based on the demand each class places on the system
- An equitable distribution of costs can consider:
 - Measures of volume and demand (levels and patterns)
 - Planning, engineering, and design criteria
 - Facility requirements (pumping, treatment, etc.)
- End result
 - Allocated cost by class
 - Unit costs (\$ per customer/unit of usage)

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Elements of Cost-of-Service Analysis

Define Utility Functions

- Measures of use/demand
- Planning and design criteria

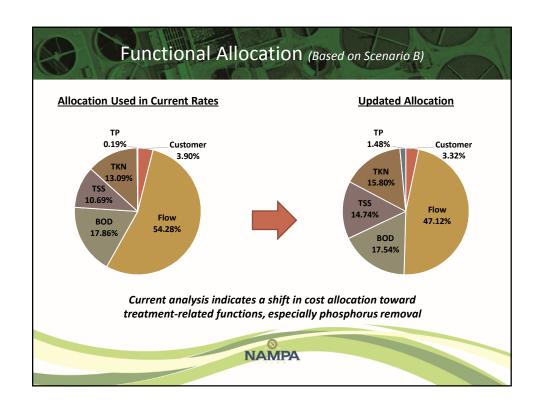
Allocate
Costs to

- Based on engineering data/industry standards
- Informed by allocation of system assets

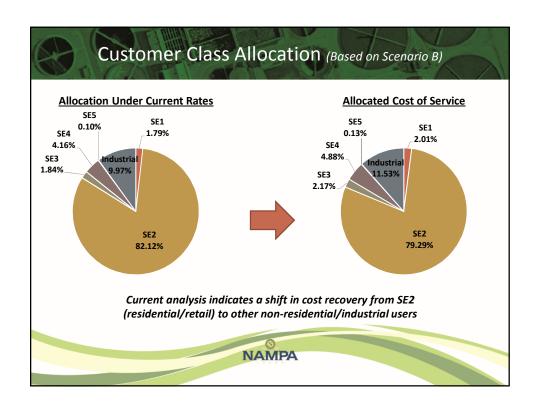
Define Customer Classes

 Consider meaningful differences in usage patterns and service characteristics Allocate Costs to Customers

- Define each customer class' equitable share of costs
- Unit costs can inform rate structure modifications



Customer Class	Example Customer Types	# of Accounts
SE1 (BOD: 0 – 200 mg/L)	Laundromats & car washes	29
SE2 (BOD: 200 – 400 mg/L)	Residential & retail stores	27,302
SE3 (BOD: 400 – 600 mg/L)	Hospitals and daycares	66
SE4 (BOD: 600 – 800 mg/L)	Restaurants	155
SE5 (BOD: 800 – 1,000 mg/L)	Other non-residential	1
SE6 (BOD: 1,000 – 1,500 mg/L)	None currently	None
SE7 (BOD: 1,500 – 2,000 mg/L)	Special permit	None
Industrial	Large industrial users	9



	5 : (2040) D	2019 Rates with Across-the-Board	2019 Rates with For Cost-of-Service
All Customers Except Industrial Users:	Existing (2018) Rates	Increase	Implementation
Monthly Base Rate (per Account)	\$7.60	\$8.87	\$8.56
Volume Rates (per ccf of Water Use)	Ş7.00	ψ0.07	φο.30
SE1 (BOD: 0 – 200 mg/L)	\$1.94	\$2.26	\$2.54
SE2 (BOD: 200 – 400 mg/L)	\$2.41	\$2.81	\$2.72
SE3 (BOD: 400 – 600 mg/L)	\$3.12	\$3.64	\$4.30
SE4 (BOD: 600 – 800 mg/L)	\$3.66	\$4.27	\$5.04
SE5 (BOD: 800 – 1,000 mg/L)	\$4.52	\$5.28	\$6.58
SE6 (BOD: 1,000 – 1,500 mg/L)	\$5.35	\$6.25	\$8.13
SE7 (BOD: 1,500 – 2,000 mg/L)	\$6.48	\$7.57	\$10.06
ndustrial User Rates:			
per Million Gallons of Flow	\$2,374.99	\$2,772.80	\$3,204.79
per Pound of BOD	\$0.210	\$0.245	\$0.283
per Pound of TSS	\$0.170	\$0.198	\$0.229
per Pound of TKN	\$1.450	\$1.693	\$1.957
per Pound of TP	\$0.150	\$0.175	\$0.202

Question #3 - Cost of Service Implementation

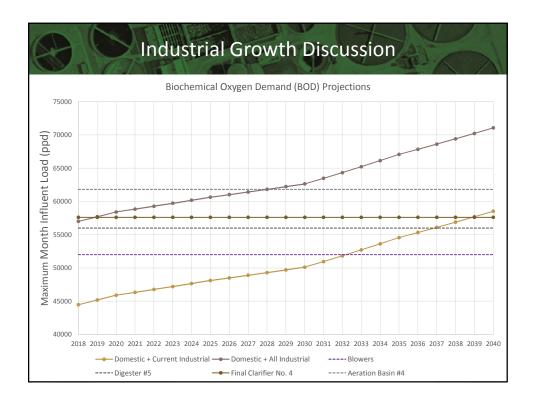
What is your preference:

- Across-the-board rate increases for all customer classes
- Full cost of service implementation (increases are determined based on the customer classes' share of costs)

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IWG Discussion Items

- Some of the needed upgrades included in the Preferred Alternative are driven by expect flow and loadings increases from both domestic and industrial customers
- With this in mind, we would like to discuss
 - Industrial growth allocations
 - Pretreatment potential



Next Steps

- Workshop with City Council January 2018
- NWAG #6 February 2018
- City Council Funding Decision February/March 2018
- Rates Enacted October 2018
- Debt Authorization Vote -

Additional Considerations

- Canyon County Jail may seek bond funding in 2018
- \$5M in State Revolving Fund loan is contingent debt authority approval by June 2018
 - Interest rates likely below market bond rates
 - Repayment begins at end of project
- Positive momentum from public involvement process (e.g., NWAG) and FY18 State Revolving Fund loan approval

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Questions #4 & 5 – Debt Authorization Timing

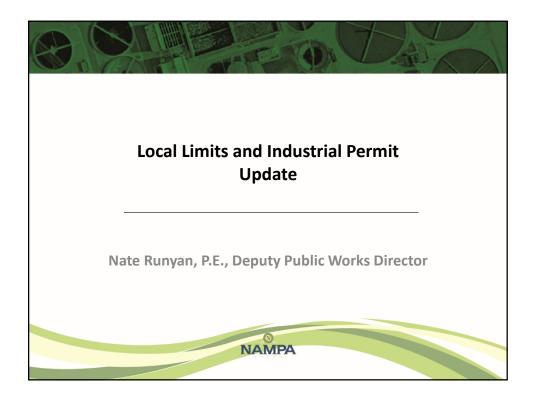
If the City decides to pursue debt funding, when should the debt authorization vote occur?

- 1) May 2018
- 2) November 2018
- 3) May 2019

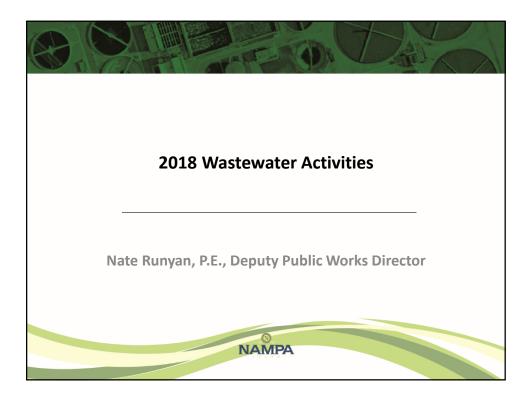
If Canyon County decides to pursue debt funding, should the City's potential debt authorization vote be:

- 1) Concurrent
- 2) After





Constituent	Existing Local Limit (mg/L)	Maximum Allowable Industrial Loading (lb/day)	Proposed Local Limit (mg/L)
Arsenic	0.09	0.498	0.05
Cadmium	0.26	a	0.26
Chromium	2.26		2.65
Copper	1.04	4.446	0.40
Cyanide	0.23	9.865	0.90
Lead	0.43	a	0.43
Mercury	.0003	0.00368	0.001
Nickel	1.20	a	1.20
Silver	0.24	6.334	0.48
Zinc	0.99	20.534	1.87
Fats, oils, and grease (FOG)	250	 itor relative to overall MAHL based on histo	250



2018 Wastewater Activities

- Continuation of Phase I Upgrades construction
- Phase II Upgrades
 - Funding decision
 - Recycled water permit negotiations with DEQ
 - Preliminary engineering and project delivery approach determination
- City Sewer Regulations update
 - Incorporation of local limits results
 - Industrial Waste Acceptance permit updates

• Feedback from group - Summary of IWG #2 feedback distributed to IWG - Feedback presented to City Council during January workshop THANK YOU!